

- NORTHERN REGION
- CENTRAL REGION
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# ERC/PUBLIC NOTICE CHECK LIST

PROJECT #s: N-1101305      *N-3941*

REQST. COMPL.

- ERC TRANSFER OF PREVIOUSLY BANKED CREDITS
- ERC PRELIMINARY PUBLIC NOTICE
- ERC FINAL PUBLIC NOTICE

Date Completed [DATE COMPLETED] /By [SELECT SUPERVISOR]

- Newspaper Notice Emailed to Clerical (Check box and tab to generate Notice)
- Send email to "OA-PublicNotices" containing the following:  
 SUBJECT: facility name, facility id#, project #, type of notice (prelim/final)  
 BODY: project description and why it is being noticed (based on Major Source, Major Modification, Title V Minor Mod, Title V Significant Mod, Initial Title V, Title V renewal, or ATC with COC)

**ENCLOSED DOCUMENTS REQUIRE:**

- Enter Correct Date, Print All Documents from File and Obtain Directors Signature
- Mail **PRELIMINARY** Notice Letter to Applicant with the following attachments:
  - Application Evaluation
  - Other Public Notice
- Email **PRELIMINARY** Public Notice for Publication to Merced Sun-Star *1/31*
- Email **PRELIMINARY** Public Notice package to EPA and CARB
- Email **PRELIMINARY** Public Notice package to "webmaster"
- Email* Send **PRELIMINARY** Public Notice package to:  
Mark Schonhoff
- Other Special Instructions (please specify): Copy of letters and application review document to Value Environmental, Attn: Paul Zawila, 8403 Homewood Court, Charlotte, NC 28215

- Tracker
- Finance
- Proof
- Web

*JAB*  
*1/25/12*

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Song  
SAN JOAQUIN VALLEY AIR POLL  
CONTROL DIST  
1990 E. GETTYSBURG AVE.  
FRESNO, CA 93726

### COPY OF NOTICE

Notice Type: GPN GOVT PUBLIC NOTICE  
Ad Description Prelim ERC PN, N-1101305, Mailba Boats, Merced

To the right is a copy of the notice you sent to us for publication in the MERCED SUN-STAR. Please read this notice carefully and call us with any corrections. The Proof of Publication will be filed with the County Clerk, if required, and mailed to you after the last date below. Publication date(s) for this notice is (are):

01/31/2012

CNS 2251328

#### NOTICE OF PRELIMINARY DECISION FOR THE PROPOSED ISSUANCE OF EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits (ERC's) to Malibu Boats for a reduction in the use of VOC containing materials, at One Malibu Court in Merced. The quantity of ERCs proposed for banking is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

The analysis of the regulatory basis for this proposed action, Project #N-1101305, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. Written comments on this project must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 4800 ENTERPRISE WAY, MODESTO, CA 95356.  
1/31/12  
CNS-2251328#  
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<b>City</b>	FRESNO	<b>Fax</b>	5592306061
<b>State - Zip</b>	CA - 93726		

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Legal GOVERNMENT - GOVT PUBLIC NOTICE

**Order Information**

<b>Attention Name</b>	Song	<b>Billing Reference No.</b>	PER
<b>Ad Description</b>	Prelim ERC PN, N-1101305, Mailba Boats, Merced	<b>Sale/Hrg/Bid Date</b>	01/31/2012

**Special Instructions** Email copy of notice to song.thao@valleyair.org

**Orders Created**

Order No.	Newspaper Name	Publishing Dates	Ad	Price	Ad Status
2251328	MERCED SUN-STAR, CA	01/31/2012	Depth : 3.40" Lines : 36	Pricing will be done by DJC	Sent
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2251328	MERCED SUN-STAR	View Ad In PDF			

**NOTICE OF PRELIMINARY DECISION FOR THE PROPOSED ISSUANCE OF EMISSION REDUCTION CREDITS**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits (ERC's) to Malibu Boats for a reduction in the use of VOC containing materials, at One Malibu Court in Merced. The quantity of ERCs proposed for banking is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

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## Song Thao

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**From:** Song Thao  
**Sent:** Thursday, January 26, 2012 8:07 AM  
**To:** Gerardo Rios (SJV\_T5\_Permits@epamail.epa.gov); Mike Tollstrup (mtollstr@arb.ca.gov)  
**Subject:** Preliminary ERC Public Notice for Malibu Court Facility N-3941 Project N-1101305  
**Attachments:** Public Notice Pkg.pdf; Newspaper Notice.pdf

**Importance:** High

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits (ERC's) to Malibu Boats for a reduction in the use of VOC containing materials, at One Malibu Court in Merced. The quantity of ERCs proposed for banking is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

## Song Thao

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**From:** Postmaster  
**Sent:** Thursday, January 26, 2012 8:07 AM  
**To:** Song Thao  
**Subject:** Delivery Status Notification (Relay)  
**Attachments:** ATT1018809.txt; Preliminary ERC Public Notice for Malibu Court Facility N-3941 Project N-1101305

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

[mtollstr@arb.ca.gov](mailto:mtollstr@arb.ca.gov)

## Song Thao

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**From:** Mail Delivery System <MAILER-DAEMON@mseive03.pyd.epa.gov>  
**Sent:** Thursday, January 26, 2012 8:07 AM  
**To:** Song Thao  
**Subject:** Successful Mail Delivery Report  
**Attachments:** Delivery report; Message Headers

This is the mail system at host mseive03.pyd.epa.gov.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<SJV\_T5\_Permits@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250  
OK, sent 4F217A1E\_4295\_7609\_1 AD03A2128005

## Song Thao

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**From:** Song Thao  
**Sent:** Thursday, January 26, 2012 8:07 AM  
**To:** WebMaster  
**Subject:** valleyair.org update: Preliminary ERC Public Notice for Malibu Court Facility N-3941 Project N-1101305

January 26, 2012 (Facility N-3941 Project N-1101305) NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits (ERC's) to Malibu Boats for a reduction in the use of VOC containing materials, at One Malibu Court in Merced. The quantity of ERCs proposed for banking is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

[Newspaper Notice](#)

[Public Notice Package](#)



**JAN 26 2012**

Jack Springer  
Malibu Boats  
One Malibu Court  
Merced, CA 95340

**Re: Notice of Preliminary Decision - Emission Reduction Credits  
Project Number: N-1101305**


Dear Mr. Springer:

Enclosed for your review and comment is the District's analysis of Malibu Boats's application for Emission Reduction Credits (ERCs) resulting from a reduction in the use of VOC containing materials, at One Malibu Court in Merced. The quantity of ERCs proposed for banking is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day public comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Mark Schonhoff of Permit Services at (209) 557-6448.

Sincerely,



David Warner  
Director of Permit Services

DW:MJS/st

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585





JAN 26 2012

Mike Tollstrup, Chief  
Project Assessment Branch  
Stationary Source Division  
California Air Resources Board  
PO Box 2815  
Sacramento, CA 95812-2815

**Re: Notice of Preliminary Decision - Emission Reduction Credits**  
**Project Number: N-1101305**

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of Malibu Boats's application for Emission Reduction Credits (ERCs) resulting from a reduction in the use of VOC containing materials, at One Malibu Court in Merced. The quantity of ERCs proposed for banking is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

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Sincerely,

David Warner  
Director of Permit Services

DW:MJS/st

Enclosure

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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JAN 26 2012

Gerardo C. Rios (AIR 3)  
Chief, Permits Office  
Air Division  
U.S. E.P.A. - Region IX  
75 Hawthorne Street  
San Francisco, CA 94105

**Re: Notice of Preliminary Decision - Emission Reduction Credits**  
**Project Number: N-1101305**

Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of Malibu Boats's application for Emission Reduction Credits (ERCs) resulting from a reduction in the use of VOC containing materials, at One Malibu Court in Merced. The quantity of ERCs proposed for banking is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

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Sincerely,



David Warner  
Director of Permit Services

DW:MJS/st

Enclosure

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Tel: 661-392-5500 FAX: 661-392-5585

Merced Sun-Star  
Merced Sun-Star

**NOTICE OF PRELIMINARY DECISION  
FOR THE PROPOSED ISSUANCE OF  
EMISSION REDUCTION CREDITS**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits to Malibu Boats for a reduction in the use of VOC containing materials, at One Malibu Court in Merced. The quantity of ERCs proposed for banking is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

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**ERC Application Evaluation  
Project # 1101305  
Application # N-942-1**

Engineer: Mark Schonhoff  
Date: January 23, 2012

Company Name: Malibu Boats  
Mailing Address: One Malibu Court  
Merced, CA 95340

Contact Name: Jack Springer  
Phone: (209) 383-7469

Date Application Received: March 30, 2010  
Date Application Deemed Complete: September 17, 2010

**I. Summary:**

The applicant is proposing to receive the following quantities of Emission Reduction Credits (ERC's) for reductions in VOC emissions due to the discontinuation of boat manufacturing at the facility. The facility will continue to perform warranty work and build small parts. Boat manufacturing will be transferred to facilities outside of California.

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total (annual)
VOC (lb)	13,753	22,879	14,803	14,093	65,528

**II. Applicable Rules:**

Rule 2301: Emission Reduction Credit Banking (Adopted September 19, 1991)  
Amended March 11, 1992; Amended December 17, 1992)

**III. Location of Reductions:**

One Malibu Court  
Merced, CA

**IV. Method of Generating Reductions:**

The ERC's will be generated by reducing the usage of VOC containing materials in the following operations. The District has issued Authorities to Construct, that once converted to Permits to Operate, will require the emission limits assumed in the reduction calculations.

Permit Number	Description
N-3941-1	Gelcoat Application Operation
N-3941-2	Gelcoat Application Operation
N-3941-3	Polyester Resin & Adhesive Application Operations
N-3941-4	Gelcoat Application Operation
N-3941-5	Polyester Resin & Adhesive Application Operations

**V. ERC Calculations:**

**A. Assumptions and Emission Factors:**

**Assumptions:**

The gelcoat and resin VOC emissions consisted solely of monomers.

The facility currently manufactures complete boats and parts for boats. Therefore, defining the facility's production rate for the Baseline Period determination would not be practical. The VOC emissions will be utilized as a surrogate for production rate.

## **Emission Factors:**

The emission factors are summarized below. Refer to appendix A of this document for detailed calculations.

### **Resins & Gelcoats**

Material	Category	Emission Factor (lb VOC/10 <sup>3</sup> lb)
Optiplus 040-8094	Resin (non-atomized)	56.3
Imedge 100BK201	Pigmented Gelcoat	131.1
Imedge 100RH540	Pigmented Gelcoat	147.7
Imedge 100YH895	Pigmented Gelcoat	150.1
SprayCore 1055LS	Tooling Resin (non-atomized)	27.4
Imedge Barrier Coat 200LK202	Pigmented Gelcoat	132.6
Patch Aid (970XJ037)	Pigmented Gelcoat	261.5
Valspar 5799A90073	Pigmented Gelcoat	145.4
Valspar 5799B90020	Pigmented Gelcoat	144.7
Valspar 5799E90056	Pigmented Gelcoat	143.9
Valspar 5799L90035	Pigmented Gelcoat	171.7
Valspar 5799R90052	Pigmented Gelcoat	147.0
Eastman 733-2246	Resin (non-atomized)	41.3
Polycor 945B023	Tooling Gelcoat (non-atomized)	280.5
Polycor 945GA104	Tooling Gelcoat (non-atomized)	276.3
ArmorFlex 953BK162	Pigmented Gelcoat	229.3
ArmorFlex 953LK160	Pigmented Gelcoat	181.6
Buffback 954BJ232	Pigmented Gelcoat	229.3
Buffback 954LJ261	Pigmented Gelcoat	211.1
ArmorFlex 963LK160	Pigmented Gelcoat	122.4
ArmorFlex 963LK188	Pigmented Gelcoat	126.0
ArmorFlex 963RK139	Pigmented Gelcoat	123.1
ArmorFlex 963RK140	Pigmented Gelcoat	123.8
ArmorPlus 963WH671	Pigmented Gelcoat	134.1
ArmorFlex 963XA220	Clear Gelcoat	260.5
ArmorFlex 963XA221	Clear Gelcoat	258.6
Polycor 965BK183	Tooling Resin (non-atomized)	58.04
ArmorGuard 967BJ244	Pigmented Gelcoat	146.2
Armor Guard 967BK150	Pigmented Gelcoat	148.5
ArmorCote 991AK138	Pigmented Gelcoat	138.6
ArmorCote 991AK139	Pigmented Gelcoat	147.7
ArmorCote 991AK140	Pigmented Gelcoat	131.1

## Resins & Gelcoats - Continued

Material	Category	Emission Factor (lb VOC/10 <sup>3</sup> lb)
ArmorCote 991BK136	Pigmented Gelcoat	151.6
ArmorCote 991BK139	Pigmented Gelcoat	152.4
ArmorCote 991GH359	Pigmented Gelcoat	153.6
ArmorCote 991GH369	Pigmented Gelcoat	151.6
ArmorCote 991LK123	Pigmented Gelcoat	136.3
ArmorCote 991LK141	Pigmented Gelcoat	145.4
ArmorCote 991LK142	Pigmented Gelcoat	147.0
ArmorCote 991NH788	Pigmented Gelcoat	146.2
ArmorCote 991NK123	Pigmented Gelcoat	135.6
ArmorCote 991NK124	Pigmented Gelcoat	133.3
ArmorCote 991NK125	Pigmented Gelcoat	140.1
ArmorCote 991NK130	Pigmented Gelcoat	132.6
ArmorCote 991PK105	Pigmented Gelcoat	141.6
ArmorCote 991RK111	Pigmented Gelcoat	139.3
ArmorCote 991RK112	Pigmented Gelcoat	140.8
ArmorCote 991RK118	Pigmented Gelcoat	138.6
ArmorCote 991RK124	Pigmented Gelcoat	143.1
ArmorCote 991WH423	Pigmented Gelcoat	154.8
ArmorCote 991YK125	Pigmented Gelcoat	137.1
ArmorCote 991YK132	Pigmented Gelcoat	137.1
Imedge 9EXFB379	Pigmented Gelcoat	129.7
Imedge 9EXFB385	Pigmented Gelcoat	137.8
Imedge 9EXFB389	Pigmented Gelcoat	136.3
Imedge 9EXFB395	Pigmented Gelcoat	140.8
IPS 300 Series	Resin Type Adhesive	58.3
Stypol LHPC-3523	Resin (non-atomized)	36.2
Stypol LHPC-4121	Resin (non-atomized)	36.1
Stypol LSPA-2201	Resin (non-atomized)	38.8
EZBOND 5787W00077	Resin (non-atomized)	32.1
Stypol LSPK-2221	Resin (non-atomized)	45.0
ITW SprayCore SC-VELR-4000	Resin (non-atomized)	37.2
ArmorStar VSXH-2200	Resin (non-atomized)	45.3

## Resin & Gelcoat Additives

Material	VOC Content
Norox MEKP-9 Resin & Gelcoat Catalyst	45% by weight
Surfacing Agent (85-X3) – Gelcoat Additive	95% by weight

Material	Category	Emission Factor (lb VOC/10 <sup>3</sup> lb)
Patch Aid Reducer (5788C90279)	Resin (non-atomized)	132.0
Patch Aid Booster/reducer (5788C90008)	Resin (non-atomized)	155.4

## Mold Materials:

Material	Category	VOC Content
Zyvex Mold Sealer GP	Mold Sealer	90% by wt
Zyvax Surface Cleaner	Mold Cleaner	90% by wt
Flex-Z	Mold Release	90% by wt

## General Use Solvents:

Material	VOC Content (lb/gal)
Thermaclean Aquawash	0.07

## Adhesives:

Material	VOC Content
3M Fastbond 100	5 g/l (0.04 lb/gal)
Keyston Bros.ADH4011	250 g/l (2.1 lb/gal) <sup>1</sup>
Westech (MBA-01)	50 g/l (0.42 lb/gal) <sup>2</sup>

<sup>1</sup> The VOC content of this material was discounted from 467 g/l to 250 g/l as explained in section VI.E of this document.

<sup>2</sup> The VOC content of this material was discounted from 80 g/l to 50 g/l as explained in section VI.E of this document.



**Waxes:**

Material	VOC Content (lb/gal)
3M Finesse- It-It Wax	17% by weight
3M Marine Ultra Paste Wax	33.8% by weight

## **B. Baseline Period Determination and Data:**

### **Baseline Period Determination:**

Per section 3.8 of District Rule 2201, the Baseline Period for calculating AER's should be the two year period immediately preceding the ERC application unless another period is deemed more representative of normal source operation. District policy APR-1810 was consulted for further guidance regarding proper Baseline Period selection. The policy states that for reductions authorized by a previous Authority-to-Construct, the baseline Period shall be selected from a period prescribed in Rule 2201 immediately preceding the Authority-to-Construct application date. The Authority-to Construct application was received on March 30, 2010. ERC's are issued on a quarterly basis therefore, the District will consider only full calendar quarters in its Baseline Period analysis. Since January 1 to March 30 of 2010 is not a full calendar quarter, the analysis will begin with the previous complete calendar quarter (quarter 4 of 2009).

To determine whether an alternative Baseline Period is appropriate it is District practice to average five years (20 calendar quarters) of production data and compare that average to the average production rate during the two consecutive years (8 complete calendar quarters) immediately preceding the application for the ATC's authorizing the reductions. If those averages are not equal, then the District may concur that the two years immediately preceding the ATC application date is not representative of normal source operation.

If an alternative Baseline Period is deemed appropriate, the District will examine every 8 consecutive calendar quarter period within the five year period described above and will define the Baseline Period as the 8 consecutive calendar quarters whose production rate was closest to the five year average production rate.

This process essentially defines normal source operation as the average production rate during that five year period and defines the baseline period as the two consecutive years, within that period, whose average production rate is closest to the five year average production rate.

The table below includes three columns. The first identifies the calendar quarter, the second shows the VOC emissions during that calendar quarter<sup>3</sup> and the third shows the difference between the production rate during the previous 8 calendar quarters and the average 5 year production rate. Positive values indicate that the

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<sup>3</sup> As stated in section VI.A of this document, emission rate is being used a surrogate for production rate.

8 calendar quarter average was higher than the 5 year average and negative values indicate the 8 calendar quarter average was less than the 5 year average.

For example, the total emissions for the 8 calendar quarters ending with the fourth calendar quarter of 2006 (Quarter 1 of 2005 through Quarter four of 2006) were 205,034, making the average emissions for that period 25,629 pounds per quarter. The difference between the average quarterly emissions for that period and the 5 year average of 19,711 lb/quarter is 5,918 lb/quarter.

Calendar Quarter	VOC Emissions (lb)	8 Quarter Difference from 5 Year Average (lb)
Q1 2005	25,619	---
Q2 2005	23,719	---
Q3 2005	23,966	---
Q4 2005	23,143	---
Q1 2006	26,704	---
Q2 2006	26,645	---
Q3 2006	24,825	---
Q4 2006	30,413	5,918
Q1 2007	36,792	7,315
Q2 2007	32,321	<b>8,390</b>
Q3 2007	20,233	<b>7,923</b>
Q4 2007	20,790	<b>7,629</b>
Q1 2008	24,606	<b>7,367</b>
Q2 2008	18,280	<b>6,321</b>
Q3 2008	14,881	<b>5078</b>
Q4 2008	12,331	<b>2,818</b>
Q1 2009	6,576	<b>-959</b>
Q2 2009	2,120	-4,734
Q3 2009	166	-7,242
Q4 2009	92	-9,830
5 year Average	19,711	---

As can be seen, the 8 consecutive calendar quarter period whose production rate is closest to the five year average production rate is Quarter 1 of 2009 back to, and including Quarter 2 of 2007.

The Baseline Period will therefore be Quarter 2 of 2007 through Quarter 1 of 2009.

**Baseline Period Data:**

**Gelcoats and Resins:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Optiplus 040-8094	2007	---	0	0	0
	2008	0	0	960	960
	2009	0	---	---	---
	Avg	0	0	480	480
Imedge 100BK201	2007	---	0	0	0
	2008	7,430	0	0	7,492
	2009	0	---	---	---
	Avg	3,715	0	0	3,746
Imedge 100RH540	2007	---	0	0	568
	2008	572	0	0	0
	2009	0	---	---	---
	Avg	286	0	0	284
Imedge 100YH895	2007	---	0	0	693
	2008	792	0	0	0
	2009	0	---	---	---
	Avg	396	0	0	347
SprayCore 1055LS	2007	---	10,090	5,500	6,500
	2008	0	18,000	0	2,500
	2009	0	---	---	---
	Avg	0	14,045	2,750	4,500
Imedge Barrier Coat 200LK202	2007	---	0	0	0
	2008	0	19,500	9,800	7,840
	2009	0	---	---	---
	Avg	0	9,750	4,900	3,740
Patch Aid (970XJ037)	2007	---	17	40	48
	2008	88	96	72	32
	2009	16	---	---	---
	Avg	52	57	56	40
Valspar 5799A90073	2007	---	0	0	0
	2008	0	315	450	480
	2009	0	---	---	---
	Avg	0	158	225	240

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Valspar 5799B90020	2007	---	0	0	0
	2008	0	9,470	10,500	0
	2009	5,005	---	---	---
	Avg	2,503	4,735	5,250	0
Valspar 5799E90056	2007	---	0	0	0
	2008	0	180	990	0
	2009	315	---	---	---
	Avg	158	90	495	0
Valspar 5799L90035	2007	---	0	0	0
	2008	0	358	0	0
	2009	180	---	---	---
	Avg	90	179	0	0
Valspar 5799R90052	2007	---	0	0	0
	2008	0	1,260	1,845	1,350
	2009	90	---	---	---
	Avg	45	630	923	675
Eastman 733-2246	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
Polycor 945B023	2007	---	450	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	225	0	0
Polycor 945GA104 (MBG0a)	2007	---	0	0	45
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	23
ArmorFlex 953BK162	2007	---	10,781	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	5,391	0	0
ArmorFlex 953LK160	2007	---	3,291	2,237	1,890
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	1,646	1,119	945

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Buffback 954BJ232	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
Buffback 954LJ261	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0		0
ArmorFlex 963LK160	2007	---	0	0	0
	2008	1,345	1,494	907	824
	2009	463	---	---	---
	Avg	904	747	454	412
ArmorFlex 963LK188	2007	---	1,237	1,403	795
	2008	778	920	0	0
	2009	52	---	---	---
	Avg	415	1,079	702	398
ArmorFlex 963RK139	2007	---	1,579	196	905
	2008	983	250	143	69
	2009	0	---	---	---
	Avg	492	915	170	487
ArmorFlex 963RK140	2007	---	4,256	3,389	2,939
	2008	4,496	303	0	793
	2009	51	---	---	---
	Avg	2,274	2,280	1,695	1,866
ArmorPlus 963WH671	2007	---	0	0	00
	2008	0	0	0	4,434
	2009	9,030	---	---	---
	Avg	4,515	0	0	2,217
ArmorFlex 963XA220	2007	---	720	1,306	1,080
	2008	2,670	0	0	0
	2009	0	---	---	---
	Avg	1,335	360	653	540
ArmorFlex 963XA221	2007	---	0	0	0
	2008	0	0	1,805	200
	2009	269	---	---	---
	Avg	135	0	903	100
Polycor 965BK183	2007	---	450	469	449
	2008	405	450	1,291	458
	2009	0	---	---	---
	Avg	203	450	880	454

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorGuard 967BJ244 (MBG01)	2007	---	13,130	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	6,565	0	0
Armor Guard 967BK150	2007	---	12,120	12,120	20,200
	2008	24,240	3,925	4,545	11,093
	2009	4,040	---	---	---
	Avg	14,140	8,023	8,333	15,647
ArmorCote 991AK138 (MBG02)	2007	---	1,625	876	836
	2008	920	1,001	396	697
	2009	0	---	---	---
	Avg	460	501	636	767
ArmorCote 991AK139 (MBG02a)	2007	---	559.0	1,094	0
	2008	0	0	501	42
	2009	0	---	---	---
	Avg	0	280	798	21
ArmorCote 991AK140 (MBG02b)	2007	---	911	845	498
	2008	746	0	0	0
	2009	0	---	---	---
	Avg	373	456	423	249
ArmorCote 991BK136 (MBG03)	2007	---	93	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	47	0	0
ArmorCote 991BK139	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
ArmorCote 991GH359	2007	---	102	0	153
	2008	0	254	291	250
	2009	0	---	---	---
	Avg	0	178	146	202

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991GH369	2007	---	249	911	742
	2008	0	244	706	167
	2009	0	---	---	---
	Avg	0	247	809	455
ArmorCote 991LK123 (MBG04)	2007	---	710	458	565
	2008	0	391	0	109
	2009	91	---	---	---
	Avg	46	551	229	337
ArmorCote 991LK141	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
ArmorCote 991LK142 (MBG04b)	2007	---	106	0	0
	2008	0	200	0	0
	2009	0	---	---	---
	Avg	0	153	0	0
ArmorCote 991NH788	2007	---	1,082	959	513
	2008	558	92	708	281
	2009	0	---	---	---
	Avg	279	587	834	397
ArmorCote 991NK123 (MBG05)	2007	---	1,366	1,258	1,482
	2008	298	354	495	146
	2009	0	---	---	---
	Avg	149	860	877	814
ArmorCote 991NK124 (MBG05a)	2007	---	104	522	0
	2008	749	195	276	75
	2009	0	---	---	---
	Avg	375	150	399	38
ArmorCote 991NK125	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0



**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991NK130	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
ArmorCote 991PK105	2007	---	45	47	193
	2008	238	96	342	0
	2009	0	---	---	---
	Avg	119	71	195	97
ArmorCote 991RK111 (MBG08)	2007	---	151	0	0
	2008	0	347	0	0
	2009	0	---	---	---
	Avg	0	249	0	0
ArmorCote 991RK112	2007	---	0	0	0
	2008	540	0	0	0
	2009	0	---	---	---
	Avg	270	0	0	0
ArmorCote 991RK118 (MBG08b)	2007	---	0	0	351
	2008	190	0	0	0
	2009	51	---	---	---
	Avg	121	0	0	176
ArmorCote 991RK124 (MBG08c)	2007	---	103	0	0
	2008	149	262	49	50
	2009	0	---	---	---
	Avg	75	131	25	25
ArmorCote 991WH423 (MBG06)	2007	---	27,840	20,900	23,197
	2008	17,960	11,600	16,218	5,322
	2009	0	---	---	---
	Avg	8,980	19,720	18,559	14,260
ArmorCote 991YK125 (MGB07)	2007	---	1,663	1,155	1,066
	2008	752	702	255	0
	2009	0	---	---	---
	Avg	376	1,183	705	533

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991YK132 (MBG07a)	2007	---	767	963	0
	2008	0	597	0	327
	2009	0	---	---	---
	Avg	0	682	482	164
Imedge 9EXFB379	2007	---	0	0	0
	2008	1,977	0	0	616
	2009	0	---	---	---
	Avg	989	0	0	308
Imedge 9EXFB385	2007	---	0	0	0
	2008	1,080	0	0	276
	2009	0	---	---	---
	Avg	540	0	0	138
Imedge 9EXFB389	2007	---	0	0	0
	2008	855	0	0	200
	2009	0	---	---	---
	Avg	428	0	0	100
Imedge 9EXFB395	2007	---	0	0	0
	2008	450	0	0	111
	2009	0	---	---	---
	Avg	225	0	0	56
IPS 300	2007	---	1,172	780	5,583
	2008	610	666	1,993	203
	2009	199	---	---	---
	Avg	405	919	1,387	2,893
Stypol LHPC-3523 (MBR02)	2007	---	80,000	4,329.5	40,040
	2008	197,820	0	0	39,500
	2009	79,480	---	---	---
	Avg	138,650	40,000	2,465	39,770
Stypol LHPC-4121 (MBR02a)	2007	---	282,100	202,240	158,440
	2008	79,680	196,720	123,560	41,700
	2009	0	---	---	---
	Avg	39,840	239,410	162,900	100,070
Stypol LSPA-2201	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
EZBOND 5787W00077	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
Stypol LSPK-2221	2007	---	29,280	21,600	24,480
	2008	21,660	15,000	7,500	14,500
	2009	1,000	---	---	---
	Avg	11,330	22,140	14,550	19,490
ITW SprayCore SC-VELR-4000	2007	---	9,450	6,300	1,350
	2008	900	2,700	1,000	0
	2009	0	---	---	---
	Avg	450	6,075	3,650	675
ArmorStar VSXH-2200	2007	---	0	0	5,000
	2008	1,000	2,500	3,500	4,500
	2009	500	---	---	---
	Avg	750	1,250	1,750	4,750

**Gelcoat and Resin Additives:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Norox MEKP-9	2007	---	8,976	5,728	6,584
	2008	7,488	5,120	3,904	2,620
	2009	1,372	---	---	---
	Avg	4,430	7,048	4,816	4,602
Patch Aid Reducer	2007	---	0	0	0
	2008	0	8	25	8
	2009	8	---	---	---
	Avg	4	4	13	4
Patch Booster (5788C90008)	2007	---	0	40.8	0
	2008	40.8	0	0	0
	2009	0	---	---	---
	Avg	20.4	0	20.4	0
85-X3 Surfacing Agent	2007	---	0	0	0
	2008	0	37.5	37.5	0
	2009	37.5	---	---	---
	Avg	18.8	18.8	18.8	0

**Mold Material:**

Material	Year	Usage (lb)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Zyvax Mold Sealer GP	2007	---	0	0	131.5
	2008	0	58.4	0	58.4
	2009	0	---	---	---
	Avg	0	29.2	0	95.0
Zyvax Surface Cleaner	2007	---	0	0	0
	2008	239.6	8	0	
	2009	0	---	---	---
	Avg	119.8	4	0	0
Flex-Z Mold Release	2007	---	163.5	39.4	24
	2008	0	0	8	24
	2009	0	---	---	---
	Avg	0	81.8	24	24

**General Use Solvents:**

Material	Year	Usage (gallons)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Thermaclean Aquawash	2007	---	94.8	31.7	86.6
	2008	54.9	0	54.9	0
	2009	0	---	---	---
	Avg	27.5	47.4	43.3	43.3

**Adhesives:**

Material	Year	Usage (gallons)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
3M Fastbond 100	2007	---	170	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	85	0	0
Keyston Bros.ADH4011	2007	---	18.1	9.2	12
	2008	50.0	56.9	6.3	19.6
	2009	0.3	---	---	---
	Avg	25.2	37.5	7.8	15.8
Westech (MBA01)	2007	---	2,186	1,214.5	1,457.4
	2008	1214.4	971.5	728.6	485.8
	2009	242.8	---	---	---
	Avg	728.6	1578.8	971.6	971.6

**Waxes:**

Material	Year	Usage (lb)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
3M Finesse-It II Wax	2007	---	0	0	0
	2008	0	0	0	0
	2009	206.2	---	---	---
	Avg	103.1	0	0	0
3M Marine Ultra Paste Wax	2007	---	0		0
	2008	0	0	0	0
	2009	2.9	---	---	---
	Avg	1.5	0	0	0

### C. Historical Actual Emissions:

#### Resins & Gelcoats

Material & Emission Factor	Usage & HAE (lb)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Optiplus 040-8094 EF = 56.3 lb/10 <sup>3</sup> lb	Usage	0	0	480	480
	HAE	0	0	27	27
Imedge 100BK201 EF = 131.1 lb/10 <sup>3</sup> lb	Usage	3,715	0	0	3,746
	HAE	487	0	0	491
Imedge 100RH540 EF = 147.7 lb/10 <sup>3</sup> lb	Usage	286	0	0	284
	HAE	42	0	0	42
Imedge 100YH895 EF = 150.1 lb/10 <sup>3</sup> lb	Usage	396	0	0	347
	HAE	59	0	0	52
SprayCore 1055LS EF = 27.4 lb/10 <sup>3</sup> lb	Usage	0	14,045	2,750	4,500
	HAE	0	385	75	123
Imedge Barrier Coat 200LK202 EF = 132.6 lb/10 <sup>3</sup> lb	Usage	0	9,750	4,900	3,740
	HAE	0	1,293	650	496
Patch Aid (970XJ037) EF = 261.5 lb/10 <sup>3</sup> lb	Usage	52	57	56	40
	HAE	14	15	15	10
Valspar 5799A90073 EF = 145.4 lb/10 <sup>3</sup> lb	Usage	0	158	225	240
	HAE	0	23	33	35
Valspar 5799B90020 EF = 144.7 lb/10 <sup>3</sup> lb	Usage	2,503	4,735	5,250	0
	HAE	362	685	760	0
Valspar 5799E90056 EF = 143.9 lb/10 <sup>3</sup> lb	Usage	158	90	495	0
	HAE	23	13	71	0
Valspar 5799L90035 EF = 171.7 lb/10 <sup>3</sup> lb	Usage	90	179	0	0
	HAE	15	31	0	0
Valspar 5799R90052 EF = 147.0 lb/10 <sup>3</sup> lb	Usage	45	630	923	675
	HAE	7	93	136	99
Eastman 733-2246 EF = 41.3 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
Polycor 945B023 EF = 280.5 lb/10 <sup>3</sup> lb	Usage	0	225	0	0
	HAE	0	63	0	0
Polycor 945GA104 (MBG0a) EF = 276.3 lb/10 <sup>3</sup> lb	Usage	0	0	0	23
	HAE	0	0	0	6
ArmorFlex 953BK162 EF = 229.3 lb/10 <sup>3</sup> lb	Usage	0	5,391	0	0
	HAE	0	1,236	0	0
Buffback 954BJ232 EF = 229.3 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
<b>Total – This Page</b>		<b>1,009</b>	<b>3,837</b>	<b>1,767</b>	<b>1,381</b>

**Gelcoats and Resins – Continued:**

Material & Emission Factor	Usage & HAE (lb)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorFlex 953LK160 EF = 181.6 lb/10 <sup>3</sup> lb	Usage	0	1,646	1,119	945
	HAE	0	299	203	172
Buffback 954LJ261 EF = 211.1 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
ArmorFlex 963LK160 EF = 122.4 lb/10 <sup>3</sup> lb	Usage	904	747	454	412
	HAE	111	91	56	50
ArmorFlex 963LK188 EF = 126.0 lb/10 <sup>3</sup> lb	Usage	415	1,079	702	398
	HAE	52	136	88	50
ArmorFlex 963RK139 EF = 123.1 lb/10 <sup>3</sup> lb	Usage	492	915	170	487
	HAE	61	113	21	60
ArmorFlex 963RK140 EF = 123.8 lb/10 <sup>3</sup> lb	Usage	2,274	2,280	1,695	1,866
	HAE	282	282	210	231
ArmorPlus 963WH671 EF = 134.1 lb/10 <sup>3</sup> lb	Usage	4,515	0	0	2,217
	HAE	605	0	0	297
ArmorFlex 963XA220 EF = 260.5 lb/10 <sup>3</sup> lb	Usage	1,335	360	653	540
	HAE	348	94	170	141
ArmorFlex 963XA221 EF = 258.6 lb/10 <sup>3</sup> lb	Usage	135	0	903	100
	HAE	35	0	234	26
Polycor 965BK183 EF = 58.04 lb/10 <sup>3</sup> lb	Usage	203	450	880	454
	HAE	12	26	51	26
ArmorGuard 967BJ244 (MBG01) EF = 146.2 lb/10 <sup>3</sup> lb	Usage	0	6,565	0	0
	HAE	0	960	0	0
Armor Guard 967BK150 EF = 148.5 lb/10 <sup>3</sup> lb	Usage	14,140	8,023	8,333	15,647
	HAE	2,100	1,191	1,237	2,324
ArmorCote 991AK138 (MBG02) EF = 138.6	Usage	460	501	636	767
	HAE	64	69	88	106
ArmorCote 991AK139 (MBG02a) EF = 147.7 lb/10 <sup>3</sup> lb	Usage	0	280	798	21
	HAE	0	41	118	3
ArmorCote 991AK140 (MBG02b) EF = 131.1 lb/10 <sup>3</sup> lb	Usage	373	456	423	249
	HAE	49	60	55	33
ArmorCote 991BK136 (MBG03) EF = 151.6 lb/10 <sup>3</sup> lb	Usage	0	47	0	0
	HAE	0	7	0	0
ArmorCote 991BK139 EF = 152.4 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
ArmorCote 991GH359 EF = 153.6 lb/10 <sup>3</sup> lb	Usage	0	178	146	202
	HAE	0	27	22	31
<b>Total – This Page</b>		<b>3,719</b>	<b>3,396</b>	<b>2,553</b>	<b>3,550</b>

**Gelcoats and Resins – Continued:**

Material & Emission Factor	Usage & HAE (lb)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991GH369 EF = 151.6 lb/10 <sup>3</sup> lb	Usage	0	247	809	455
	<b>HAE</b>	<b>0</b>	<b>37</b>	<b>123</b>	<b>69</b>
ArmorCote 991LK123 (MBG04) EF = 136.3 lb/10 <sup>3</sup> lb	Usage	46	551	229	337
	<b>HAE</b>	<b>6</b>	<b>75</b>	<b>31</b>	<b>46</b>
ArmorCote 991LK141 EF = 145.4 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	<b>HAE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
ArmorCote 991LK142 (MBG04b) EF = 147.0 lb/10 <sup>3</sup> lb	Usage	0	153	0	0
	<b>HAE</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>
ArmorCote 991NH788 EF = 146.2 lb/10 <sup>3</sup> lb	Usage	279	587	834	397
	<b>HAE</b>	<b>41</b>	<b>86</b>	<b>122</b>	<b>58</b>
ArmorCote 991NK123 (MBG05) EF = 135.6 lb/10 <sup>3</sup> lb	Usage	149	860	877	814
	<b>HAE</b>	<b>20</b>	<b>117</b>	<b>119</b>	<b>110</b>
ArmorCote 991NK124 (MBG05a) EF = 133.3 lb/10 <sup>3</sup> lb	Usage	375	150	399	38
	<b>HAE</b>	<b>50</b>	<b>20</b>	<b>53</b>	<b>5</b>
ArmorCote 991NK125 EF = 140.1 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	<b>HAE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
ArmorCote 991NK130 EF = 132.6 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	<b>HAE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
ArmorCote 991PK105 EF = 141.6 lb/10 <sup>3</sup> lb	Usage	119	71	195	97
	<b>HAE</b>	<b>17</b>	<b>10</b>	<b>28</b>	<b>14</b>
ArmorCote 991RK111 (MBG08) EF = 139.3 lb/10 <sup>3</sup> lb	Usage	0	249	0	0
	<b>HAE</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>0</b>
ArmorCote 991RK112 EF = 140.8 (lb/10 <sup>3</sup> lb)	Usage	270	0	0	0
	<b>HAE</b>	<b>38</b>	<b>0</b>	<b>0</b>	<b>0</b>
ArmorCote 991RK118 (MBG08b) EF = 138.6 lb/10 <sup>3</sup> lb	Usage	121	0	0	176
	<b>HAE</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>24</b>
ArmorCote 991RK124 (MBG08c) EF = 143.1 lb/10 <sup>3</sup> lb	Usage	75	131	25	25
	<b>HAE</b>	<b>11</b>	<b>19</b>	<b>4</b>	<b>4</b>
<b>Total – This Page</b>		<b>200</b>	<b>421</b>	<b>480</b>	<b>330</b>



**Gelcoats and Resins – Continued:**

Material & Emission Factor	Usage & HAE (lb)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991WH423 (MBG06) EF = 154.8 lb/10 <sup>3</sup> lb	Usage	8,980	19,720	18,559	14,260
	<b>HAE</b>	<b>1,390</b>	<b>3,053</b>	<b>2,873</b>	<b>2,207</b>
ArmorCote 991YK125 (MGB07) EF = 137.1 lb/10 <sup>3</sup> lb	Usage	376	1,183	705	533
	<b>HAE</b>	<b>52</b>	<b>162</b>	<b>97</b>	<b>73</b>
ArmorCote 991YK132 (MBG07a) EF = 137.1 lb/10 <sup>3</sup> lb	Usage	0	682	482	164
	<b>HAE</b>	<b>0</b>	<b>94</b>	<b>66</b>	<b>22</b>
Imedge 9EXFB379 EF = 129.7 lb/10 <sup>3</sup> lb	Usage	989	0	0	308
	<b>HAE</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>40</b>
Imedge 9EXFB385 EF = 137.8 lb/10 <sup>3</sup> lb	Usage	540	0	0	138
	<b>HAE</b>	<b>74</b>	<b>0</b>	<b>0</b>	<b>19</b>
Imedge 9EXFB389 EF = 136.3 lb/10 <sup>3</sup> lb	Usage	428	0	0	100
	<b>HAE</b>	<b>58</b>	<b>0</b>	<b>0</b>	<b>14</b>
Imedge 9EXFB395 EF = 140.8 lb/10 <sup>3</sup> lb	Usage	225	0	0	56
	<b>HAE</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>8</b>
IPS 300 EF = 58.3 lb/10 <sup>3</sup> lb	Usage	405	919	1,387	2,893
	<b>HAE</b>	<b>24</b>	<b>54</b>	<b>81</b>	<b>169</b>
Stypol LHPC-3523 (MBR02) EF = 36.2 lb/10 <sup>3</sup> lb	Usage	138,650	40,000	2,465	39,770
	<b>HAE</b>	<b>5,019</b>	<b>1,448</b>	<b>89</b>	<b>1,440</b>
Stypol LHPC-4121 (MBR02a) EF = 36.1 lb/10 <sup>3</sup> lb	Usage	39,840	239,410	162,900	100,070
	<b>HAE</b>	<b>1,438</b>	<b>8,643</b>	<b>5,881</b>	<b>3,613</b>
Stypol LSPA-2201 EF = 38.8 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	<b>HAE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
EZBOND 5787W00077 EF = 32.1 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	<b>HAE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Stypol LSPK-2221 EF = 45.0 lb/10 <sup>3</sup> lb	Usage	11,330	22,140	14,550	19,490
	<b>HAE</b>	<b>510</b>	<b>996</b>	<b>655</b>	<b>877</b>
ITW SprayCore SC-VELR-4000 EF = 37.2 lb/10 <sup>3</sup> lb	Usage	450	6,075	3,650	675
	<b>HAE</b>	<b>17</b>	<b>226</b>	<b>136</b>	<b>25</b>
ArmorStar VSXH-2200 EF = 45.3 lb/10 <sup>3</sup> lb	Usage	750	1,250	1,750	4,750
	<b>HAE</b>	<b>34</b>	<b>57</b>	<b>79</b>	<b>215</b>
<b>Total – This Page</b>		<b>8,776</b>	<b>14,733</b>	<b>9,957</b>	<b>8,722</b>

### Gelcoat and Resin Summary:

	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
Page 17	1,009	3,837	1,767	1,381
Page 18	3,719	3,396	2,553	3,550
Page 19	200	421	480	330
Page 20	8,776	14,733	9,957	8,722
Total	13,704	22,387	14,757	13,983

### Gelcoat and Resin Additives:

Material & Emission Factor	Usage & HAE	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Norox MEKP-9 EF = 45% by wt	Usage (lb)	4,430	7,048	4,816	4,602
	<b>HAE (lb)</b>	<b>1,994</b>	<b>3,172</b>	<b>2,167</b>	<b>2,071</b>
85-X3 Surfacing Agent EF = 95% by wt	Usage (lb)	18.8	18.8	18.8	0
	<b>HAE (lb)</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>0</b>
Patch Aid Reducer EF = 132.0 lb/10 <sup>3</sup> lb	Usage (lb)	4	4	13	4
	<b>HAE (lb)</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>
Patch Booster (5788C90008) EF = 155.4 lb/10 <sup>3</sup> lb	Usage (lb)	20.4	0	20.4	0
	<b>HAE (lb)</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>
Total		<b>2,016</b>	<b>3,191</b>	<b>2,190</b>	<b>2,072</b>

### Mold Material:

Material	Usage & HAE	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Zyvox Mold Sealer GP EF = 90% by wt	Usage (lb)	0	29.2	0	95.0
	<b>HAE (lb)</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>86</b>
Zyvox Surface Cleaner EF = 90% by wt	Usage (lb)	119.8	4	0	0
	<b>HAE (lb)</b>	<b>108</b>	<b>4</b>	<b>0</b>	<b>0</b>
Flex-Z Mold Release EF = 90% by wt	Usage (lb)	0	81.8	24	24
	<b>HAE (lb)</b>	<b>0</b>	<b>74</b>	<b>22</b>	<b>22</b>
Total		<b>108</b>	<b>104</b>	<b>22</b>	<b>108</b>

### General Use Solvents:

Material	Usage & HAE	Usage (gallons)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Thermaclean Aquawash EF = 0.007 lb/gal	Usage (gal)	27.5	47.4	43.3	43.3
	<b>HAE (lb)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Adhesives:**

Material		Quarter 1	Quarter 2	Quarter 3	Quarter 4
3M Fastbond 100 EF = 0.04 lb/gal	Usage (gal)	0	85	0	0
	<b>HAE (lb)</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>
Keyston Bros.ADH4011 EF = 2.1 lb/gal	Usage (gal)	25.2	37.5	7.8	15.8
	<b>HAE (lb)</b>	<b>53</b>	<b>79</b>	<b>16</b>	<b>33</b>
Westech (MBA01) EF = 0.42	Usage (gal)	728.6	1578.8	971.6	971.6
	<b>HAE (lb)</b>	<b>306</b>	<b>663</b>	<b>408</b>	<b>408</b>
Total		<b>359</b>	<b>745</b>	<b>424</b>	<b>441</b>

**Waxes:**

Material		Quarter 1	Quarter 2	Quarter 3	Quarter 4
3M Finesse-It II Wax EF = 17% by wt	Usage (lb)	103.1	0	0	0
	<b>HAE (lb)</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>
3M Marine Ultra Paste Wax EF = 33.8% by wt	Usage (lb)	1.5	0	0	0
	<b>HAE (lb)</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Total		<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Summary of HAE's:**

Emissions in excess of those allowed by the permits occurred during the baseline period. The ERC quantity will be reduced by the amount of the excess emissions. As shown in section VI.E of this document, that quantity was 70 pounds during the second calendar quarter.

Material Category	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
Gelcoats/Resins	13,704	22,387	14,757	13,983
Gelcoat/Resin Additives	2,016	3,191	2,190	2,072
Mold Material	108	104	22	108
General Use Solvents	0	0	0	0
Adhesives	359	745	424	441
Waxes	19	0	0	0
Emission Limit Discounting	0	-71	0	0
Total	16,206	26,356	17,393	16,604

**D. Actual Emission Reductions:**

Per section 4.12 of Rule 2201:

$$\text{AER} = \text{HAE} - \text{PE2}$$

Where HAE is the historical actual reductions (VOC)

HAE<sub>VOC</sub> (Quarter 1): 16,206 lb

HAE<sub>VOC</sub> (Quarter 2): 26,356 lb

HAE<sub>VOC</sub> (Quarter 3): 17,393 lb

HAE<sub>VOC</sub> (Quarter 4): 16,604 lb

PE2 is the post modification potential to emit (VOC)

VOC Emission Limit (Quarter 1): 925 lb

VOC Emission Limit (Quarter 2): 935 lb

VOC Emission Limit (Quarter 3): 945 lb

VOC Emission Limit (Quarter 4): 945 lb

$$\text{AER}_{\text{VOC}} \text{ (Quarter 1)} = 16,206 \text{ lb} - 925 \text{ lb} = 15,281 \text{ lb}$$

$$\text{AER}_{\text{VOC}} \text{ (Quarter 2)} = 26,356 \text{ lb} - 935 \text{ lb} = 25,421 \text{ lb}$$

$$\text{AER}_{\text{VOC}} \text{ (Quarter 3)} = 17,393 \text{ lb} - 945 \text{ lb} = 16,448 \text{ lb}$$

$$\text{AER}_{\text{VOC}} \text{ (Quarter 4)} = 16,604 \text{ lb} - 945 \text{ lb} = 15,659 \text{ lb}$$

**E. Air Quality Improvement Deduction:**

Per District rule 2201, section 4.12.1, a 10% air quality improvement deduction must be applied to the AER's prior to banking. The air quality improvement deductions are as follows:

	Quarter 1 [lb]	Quarter 2 [lb]	Quarter 3 [lb]	Quarter 4 [lb]
VOC	1,528	2,542	1,645	1,566

**F. Increase in Permitted Emissions:**

No IPE associated with this project.

## **G. Bankable Emissions Reductions:**

The bankable reductions are the difference between the AER's and the Air Quality Improvement Deduction.

Quarter 1 = 15,281 lb – 1,528 lb = 13,753 lb

Quarter 2 = 25,421 lb – 2,542 lb = 22,879 lb

Quarter 3 = 16,448 lb – 1,645 lb = 14,803 lb

Quarter 4 = 15,659 lb – 1,566 lb = 14,093 lb

## **VI. Compliance:**

### **A. Real Reductions:**

The reductions were generated by curtailing production. Had the production curtailments not occurred, the emissions for which ERC's are being proposed could still be occurring. Therefore, the reductions are real.

### **B. Enforceable Reductions:**

The reductions for which ERC's are proposed will be generated by curtailing production. The facility has been issued Authorities to Construct (ATC's) to lower the facility-wide emission limits and the proposed ERC's are based on the reductions that would occur as a result of compliance with those ATC's. Prior to issuing the final ERC certificates, conversion of those ATC's to Permits to Operate will be required. Violating the terms of those Permits to Operate would result in enforcement action being taken therefore, the reductions are enforceable.

### **C. Quantifiable Reductions:**

The baseline period emissions were calculated utilizing District approved emission factors and actual baseline period material usages. Therefore, the reductions are quantifiable.

### **D. Permanent Reductions:**

As stated in section VI.B above, the ATC's authorizing the reductions for which ERC's are proposed will have to be converted to Permits to Operate prior to the issuance of the proposed ERC certificates. Should the facility require higher emission limits, Authorities to Construct that would address the validity of the ERC's would be required. Those ATC's may result in the necessity of surrendering all or a portion of the ERC's. Therefore, the reductions are permanent.

## E. Surplus Reductions:

The applicant is proposing ERC's for polyester resin operations, adhesive application operations and solvent use. To determine whether or not reductions are surplus, the District must examine its current and proposed rules as well as requirements projected to apply to operations for which ERC's are proposed. The District also considers other District's rules during a surplus emission analysis. After examining all current, pending and projected regulations, the District will discount the emission factors to the level of the most stringent rule. And finally, discounting for any baseline period emission limit violations will also be performed. During this analysis, rules from the following agencies will be considered:

United States Environmental Protection Agency (USEPA)  
California Air Resources Board (CARB)  
San Joaquin Valley Air Pollution Control District (SJVAPCD)  
South Coast Air Quality Management District (SCAQMD)  
Bay Area Air Quality Management District (BAAQMD)  
Sacramento Metropolitan Air Quality Management District (SMAQMD)

Below are the rules that will be considered:

Agency	Polyester Resin and Gelcoating Rule	Adhesives Rule	Solvent Rule
USEPA	40 CFR Part 63 Subpart VVVV	Subpart VVVV	No Rule
CARB	No Rule	No Rule	No Rule
SJVAPCD	4684	4653	4663
SCAQMD	1162	1168	1171
BAAQMD	Reg 8 Rule 50	Reg 8 Rule 51	Reg 8 Rule 16
SMAQMD	465	Rule 460	Rule 466

### **Polyester Resins and Gel Coating Rules:**

The USEPA and District rules offer the option of complying with a monomer content averaging calculation as opposed to an individual monomer content limit for each material. The SCAQMD, BAAQMD and SMAQMD rules all limit the individual material monomer content. Surplussing analyses for the USEPA and District rules will be presented separately while a single surplussing analysis for the SCAQMD, BAAQMD and SMAQMD is most appropriate.

### **40 CFR Part 63 Subpart VVVV (National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing):**

This rule applies only to Major HAP sources. Although the reductions for which ERC's are proposed will be enforced by ATC's and PTO's that will result in the facility no longer being a Major HAP source, only the facility's Major HAP source status during the baseline period is relevant. Since the facility was a Major HAP source during the baseline period, the ERC's must be issued assuming compliance with this rule was met. This subpart applies to resin, gelcoating and carpet/fabric adhesives operations.

### **Standards for Resin and Gelcoating Operations:**

The applicant has chosen the MACT Points Value option of section 63.5701 to show compliance with the requirements of this rule. This method is essentially an averaging method by which a calculated HAP emission rate over the previous 12 months is compared to a limit that is referred to as the MACT Points Value. The HAP emission rate is to be calculated as specified in section 63.5698 (equation 1) and the MACT Points Value is to be calculated utilizing equation 1 of section 63.5710. The table below shows each quarterly segment of the baseline period, the HAP emission rate, the MACT Points Value and whether or not compliance was met.

12 Months Ending	NESHAP EQ 1 HAP Limit (Tons)	NESHAP MACT Point Value (Tons)	Compliant
April 2007	61.18	56.01	Yes
May 2007	63.48	57.18	Yes
June 2007	62.40	56.62	Yes
July 2007	62.14	56.00	Yes
August 2007	60.46	54.47	Yes
September 2007	60.13	53.95	Yes
October 2007	59.13	52.77	Yes
November 2007	57.42	51.13	Yes
December 2007	54.95	48.73	Yes
January 2008	55.16	48.48	Yes
February 2008	53.25	46.62	Yes
March 2008	49.48	43.00	Yes
April 2008	48.32	41.63	Yes
May 2008	45.81	39.25	Yes
June 2008	43.05	36.78	Yes
July 2008	41.66	35.61	Yes
August 2008	40.90	35.10	Yes
September 2008	43.03	34.36	Yes
October 2008	39.04	33.51	Yes
November 2008	36.58	31.39	Yes
December 2008	36.07	30.84	Yes
January 2009	31.10	26.62	Yes
February 2009	29.03	24.70	Yes
March 2009	26.90	22.86	Yes



**SJVAPCD Rule 4684 (Polyester Resin Operations, 8/18/2011):**

This rule includes requirements for two types of source. The first is type of stationary source is one with potential VOC emissions of less than 2.7 tons per rolling 12-month period and the second is a source with potential VOC emissions of greater than or equal to 2.7 tons per rolling 12-month period. Although the ERC's will be generated by reducing the facility-wide potential to emit of VOC from above to below 2.7 tons per 12-month rolling period, any necessary discounting must be conducted utilizing the requirements associated with the emission limits in place during the baseline period ( $\geq$  2.7 tons per 12-month rolling period).

Per section 5.2.2.1, the facility is required to comply with one of the following rule sections:

Section 5.2.2.4: Material Monomer Content Limits

Section 5.2.2.5: Emissions Averaging

Section 5.2.2.6: Add-On VOC Control System

Section 5.2.2.5 is intended to be equivalent to the MACT Point Value option utilized to show compliance with 40 CFR Part 63 Subpart VVVV. As shown above, compliance with the MACT Point Value option was achieved during the baseline period, therefore compliance with section 5.2.2.5 of this rule would also have been met. No baseline period emission discounting is required.

**SCAQMD Rule 1162 (Polyester Resin Operations)  
BAAQMD Regulation 8 Rule 50  
SMAQMD Rule 465**

These rules limit the monomer content of polyester resins and gel coats. The following table shows the monomer content of the materials that were utilized during the baseline period and the limits that would have applied if these rules applied.

**Notes Regarding SCAQMD Rule 1162:**

This rule applies to all polyester resin operations that operate in the SCAQMD. Section (c)(2)(A) limits the monomer content of the resins used.

The resins are utilized either as tooling resins or for boat hulls. Therefore, they are Corrosion-Resistant Materials as defined in section (b)(3) of this rule. Per the table in section (c)(2)(A) of this rule, the monomer content limit for such materials is 48%.

The gelcoats are utilized either as tooling gelcoats or for boat hulls. Therefore, they are Specialty Gelcoats as defined in section (b)(36) of this rule. Per the table in section (c)(2)(A) of this rule, the monomer content limit for such materials is 48%.

**Notes Regarding BAAQMD Regulation 8 Rule 50:**

This rule applies to all manufacturing, fabrication, rework, repair and touch-up of composite products made of polyester resins and gelcoats.

The resins were applied utilizing only non-atomized methods therefore, per Table 1, the monomer content limit for boat manufacturing resins is 35% by weight and the monomer limit for tooling resins is 46% by weight.

Per Table 1 of this rule, the monomer content limit for boat manufacturing gelcoats is 48% by weight.

**Notes Regarding SMAQMD Rule 465:**

This rule applies to all polyester resin operations and does not distinguish between resins and gelcoats.

Per section 301, the monomer content limit of non-specialty resins (including gelcoats) is 35% by weight. However, tooling resins meet the definition of specialty resins because they are subjected to corrosive agents during the molding process. The monomer content limit of specialty resins and clear gelcoats is 50% by weight. The monomer content limit of pigmented gelcoats is 45% by weight.

Material	Category	Actual Monomer Content (wt. %)	Monomer Limit (wt. %) SCAQMD Rule 1162	Monomer Limit (wt. %) BAAQMD Reg. 8 Rule 50	Monomer Limit (wt. %) SMAQMD Rule 465
Optiplus 040-8094	Tooling Resin (non-atomized)	38.4	48	46	50
Imedge 100BK201	Pigmented Gelcoat	29.8	48	48	45
Imedge 100RH540	Pigmented Gelcoat	32.0	48	48	45
Imedge 100YH895	Pigmented Gelcoat	32.3	48	48	45
SprayCore 1055LS	Tooling Resin (non-atomized)	27	48	46	50
Imedge Barrier Coat 200LK202	Pigmented Gelcoat	30.0	48	48	45
Patch Booster & PatchAid Reducer	Pigmented Gelcoat	60	48	48	45
Valspar 5799A90073	Pigmented Gelcoat	31.7	48	48	45
Valspar 5799B90020	Pigmented Gelcoat	31.6	48	48	45
Valspar 5799E90056	Pigmented Gelcoat	31.5	48	48	45
Valspar 5799L90035	Pigmented Gelcoat	35	48	48	45
Valspar 5799R90052	Pigmented Gelcoat	31.9	48	48	45
Eastman 733-2246	Resin (non-atomized)	33.5	48	35	35
Polycor 945B023	Tooling Gelcoat	46.92	48	48	50
Polycor 945GA104	Tooling Gelcoat	46.5	48	48	50
ArmorFlex 953BK162	Pigmented Gelcoat	41.6	48	48	45
ArmorFlex 953LK160	Pigmented Gelcoat	36.2	48	48	45

Material	Category	Actual Monomer Content (wt. %)	Monomer Limit (wt. %) SCAQMD Rule 1162	Monomer Limit (wt. %) BAAQMD Reg. 8 Rule 50	Monomer Limit (wt. %) SMAQMD Rule 465
ArmorFlex 953LK160	Pigmented Gelcoat	36.2	48	48	45
Buffback 954BJ232	Pigmented Gelcoat	41.6	48	48	45
Buffback 954LJ261	Pigmented Gelcoat	39.6	48	48	45
ArmorFlex 963LK160	Pigmented Gecoat	28.6	48	48	45
ArmorFlex 963LK188	Pigmented Gelcoat	29.1	48	48	45
ArmorFlex 963RK139	Pigmented Gelcoat	28.7	48	48	45
ArmorFlex 963RK140	Pigmented Gelcoat	28.8	48	48	45
ArmorPlus 963WH671	Pigmented Gelcoat	30.2	48	48	45
ArmorFlex 963XA220	Clear Gelcoat	44.9	48	48	50
ArmorFlex 963XA221	Clear Gelcoat	44.7	48	48	50
Polycor 965BK183	Tooling Resin (non-atomized)	38.9	48	46	50
ArmorGuard 967BJ244	Pigmented Gelcoat	31.8	48	48	45
Armor Guard 967BK150	Pigmented Gelcoat	32.1	48	48	45
ArmorCote 991AK138	Pigmented Gelcoat	30.8	48	48	45
ArmorCote 991AK139	Pigmented Gelcoat	32.0	48	48	45
ArmorCote 991AK140	Pigmented Gelcoat	29.8	48	48	45
ArmorCote 991BK136	Pigmented Gelcoat	32.5	48	48	45
ArmorCote 991BK139	Pigmented Gelcoat	32.6	48	48	45
ArmorCote 991GH359	Pigmented Gelcoat	32.75	48	48	45
ArmorCote 991GH369	Pigmented Gelcoat	32.5	48	48	45

Material	Category	Actual Monomer Content (wt. %)	Monomer Limit (wt. %) SCAQMD Rule 1162	Monomer Limit (wt. %) BAAQMD Reg. 8 Rule 50	Monomer Limit (wt. %) SMAQMD Rule 465
ArmorCote 991LK123	Pigmented Gelcoat	30.5	48	48	45
ArmorCote 991LK141	Pigmented Gelcoat	31.7	48	48	45
ArmorCote 991LK142	Pigmented Gelcoat	31.9	48	48	45
ArmorCote 991NH788	Pigmented Gelcoat	31.8	48	48	45
ArmorCote 991NK123	Pigmented Gelcoat	30.4	48	48	45
ArmorCote 991NK124	Pigmented Gelcoat	30.1	48	48	45
ArmorCote 991NK125	Pigmented Gelcoat	31.0	48	48	45
ArmorCote 991NK130	Pigmented Gelcoat	30.0	48	48	45
ArmorCote 991PK105	Pigmented Gelcoat	31.2	48	48	45
ArmorCote 991RK111	Pigmented Gelcoat	30.9	48	48	45
ArmorCote 991RK112	Pigmented Gelcoat	31.1	48	48	45
ArmorCote 991RK118	Pigmented Gelcoat	30.8	48	48	45
ArmorCote 991RK124	Pigmented Gelcoat	31.4	48	48	45
ArmorCote 991WH423	Pigmented Gelcoat	32.9	48	48	45
ArmorCote 991YK125	Pigmented Gelcoat	30.6	48	48	45
ArmorCote 991YK132	Pigmented Gelcoat	30.6	48	48	45
Imedge 9EXFB379	Pigmented Gelcoat	29.6	48	48	45
Imedge 9EXFB385	Pigmented Gelcoat	30.7	48	48	45
Imedge 9EXFB389	Pigmented Gelcoat	30.5	48	48	45

Material	Category	Actual Monomer Content (wt. %)	Monomer Limit (wt. %) SCAQMD Rule 1162	Monomer Limit (wt. %) BAAQMD Reg. 8 Rule 50	Monomer Limit (wt. %) SMAQMD Rule 465
Imedge 9EXFB395	Pigmented Gelcoat	31.1	48	48	45
Stypol LHPC-3523	Resin (non-atomized)	31.63	48	35	35
Stypol LHPC-4121	Resin (non-atomized)	31.6	48	35	35
Stypol LSPA-2201	Resin (non-atomized)	32.6	48	35	35
EZBOND 5787W00077	Resin (non-atomized)	30	48	35	35
Stypol LSPK-2221	Resin (non-atomized)	34.8	48	35	35
ITW SprayCore SC-VELR-4000	Resin (non-atomized)	32	48	35	35
ArmorStar VSXH-2200	Resin (non-atomized)	34.9	48	35	35

As can be seen, the monomer content of the patch Booster/Patch Aid must be discounted from 60% by weight to 45% by weight as would be required by SMAQMD Rule 465. The emission factor for this material will therefore be calculated utilizing a monomer content of 45% by weight.

## **Adhesives Rules:**

### **40 CFR Part 63 Subpart VVVV**

Section 63.5740 limits the HAP content of adhesive materials used for carpet and fabric to 5 percent by weight. The only material utilized in these types of operations is the Westech HS-MAC-18, HP-MAC-18 and MPEA. Section 63.5740(b) requires that the HAP content demonstration be made in accordance with section 63.5758. Section 63.5758(a)(5) states that information from the supplier or manufacturer of the material be relied upon in making this determination. The material safety data sheet for the material states that to the nearest 1%, the HAP content is zero. Information from the applicant indicates that the HAP content is actually 0.1% by weight. Therefore, the material complies with this limit.

Note: Although other adhesives were utilized, no others were used in carpet or fabric operations.

### **Compliance Summary:**

Compliance with the requirements of this subpart was met during the baseline period. Therefore, no discounting for compliance with this rule is required.

### **SJVAPCD Rule 4653 (Adhesives)**

The only materials that are adhesives in the traditional sense are the Westech HS-MAC-18, HP-MAC-18 and MPEA, the 3M Fastbond and the Keaston Brothers ADH 4011. The others identified as adhesives are actually polyester resins that are subject to Rule 4684.

The table below shows the material ID, its use, the applicable VOC content limit and the actual VOC content.

Material ID	Use	Rule 4653 Category	VOC Content Limit	Actual VOC Content
			g/l less water and exempts	
Westech HS-MAC-18	Carpet Installation	Floor Covering Installation	150	80
Westech HP-MAC-18	Carpet Installation	Floor Covering Installation	150	80
Westech MPEA	Carpet Installation	Floor Covering Installation	150	80
3M Fastbond 100	Foam Bonding	Plastic Foam	50	5
ADH 4011	Vinyl to Foam	Flexible Vinyl Adhesive	250	467

As can be seen, the VOC content of the flexible vinyl adhesive must be discounted to the 250 g/l SJVAPCD Rule 4653 level.



### **SCAQMD Rule 1168 (Adhesive and Sealant Applications)**

The only materials that are adhesives in the traditional sense are the Westech HS-MAC-18, HP-MAC-18 and MPEA, the 3M Fastbond and the Keaston Brothers ADH 4011. The others identified as adhesives are actually polyester resins that are subject to Rule 4684.

The table below shows the material ID, its use, the applicable VOC content limit and the actual VOC content.

Material ID	Use	Rule 1168 Category	VOC Content Limit	Actual VOC Content
			g/l less water and exempts	
Westech HS-MAC-18	Carpet Installation	Porous Materials	50	80
Westech HP-MAC-18	Carpet Installation	Porous Materials	50	80
Westech MPEA	Carpet Installation	Porous Materials	50	80
3M Fastbond 100	Foam Bonding	Plastic Foam	50	5
ADH 4011	Vinyl to Foam	Top & Trim Adhesive	250	467

As can be seen, the VOC content of the carpet adhesive must be discounted to the 50 g/l SCAQMD Rule 1168 level. Since the carpet is not being utilized in an Architectural application (as defined in rule 1168), the carpet adhesive limit of 150 g/l cannot be used.

As can be seen, the VOC content of the vinyl to foam adhesive must be discounted to the 250 g/l SCAQMD Rule 1168 level.

**BAAQMD Regulation 8 Rule 51 (Adhesive and Sealant Products):**

The only materials that are adhesives in the traditional sense are the Westech HS-MAC-18, HP-MAC-18 and MPEA, the 3M Fastbond and the Keaston Brothers ADH 4011. The others identified as adhesives are actually polyester resins that are subject to Rule 4684.

The table below shows the material ID, its use, the applicable VOC content limit and the actual VOC content.

Material ID	Use	Regulation 8 Rule 51 Category	VOC Content Limit	Actual VOC Content
			g/l less water and exempts	
Westech HS-MAC-18	Carpet Installation	Outdoor Floor Covering Installation	250	80
Westech HP-MAC-18	Carpet Installation	Outdoor Floor Covering Installation	250	80
Westech MPEA	Carpet Installation	Outdoor Floor Covering Installation	250	80
3M Fastbond 100	Foam Bonding	Multi-Purpose Construction	200	5
ADH 4011	Vinyl to Foam	Top & Trim Installation	540	467

As can be seen, this rule requires no discounting.

**SMAQMD Rule 460:**

The only materials that are adhesives in the traditional sense are the Westech HS-MAC-18, HP-MAC-18 and MPEA, the 3M Fastbond and the Keaston Brothers ADH 4011. The others identified as adhesives are actually polyester resins that are subject to Rule 4684.

The table below shows the material ID, its use, the applicable VOC content limit and the actual VOC content.

Material ID	Use	SMAQMD Rule 460 Category	VOC Content Limit	Actual VOC Content
			g/l less water and exempts	
Westech HS-MAC-18	Carpet Installation	Porous Materials	120	80
Westech HP-MAC-18	Carpet Installation	Porous Materials	120	80
Westech MPEA	Carpet Installation	Porous Materials	120	80
3M Fastbond 100	Foam Bonding	All Other Substrates (Section 8-51-302)	250	5
ADH 4011	Vinyl to Foam	Flexible Vinyl Adhesive	250	467

As can be seen, the VOC content of the flexible vinyl adhesive must be discounted to the 250 g/l SMAQMD Rule 460 level

**Summary of Adhesive Emission Factors After Rule Discounting:**

Material	Surplus VOC Content	Reference
Westech HS-MAC-18	50 g/l (0.42 lb/gal)	SCAQMD Rule 1168
Westech HP-MAC-18	50 g/l (0.42 lb/gal)	SCAQMD Rule 1168
Westech MPEA	50 g/l (0.42 lb/gal)	SCAQMD Rule 1168
3M Fastbond 100	5 g/l (0.042 lb/gal)	No Discounting Necessary
ADH 4011	250 g/l (2.1 lb/gal)	SJVAPCD Rule 4653 SCAQMD Rule 1168 SMAQMD Rule 460

## **Solvent Cleaning Rules:**

### **SJVAPCD Rule 4684 (Polyester Resin Operations)**

This rule limits the VOC content of all organic solvents for cleaning operations to 25 g/l (0.21 lb/gal). The facility utilized only Thermaclean Aquawash during the baseline period. That material has a VOC content of 0.007 lb/gal. Therefore, no baseline emission discounting is required.

### **SJVAPCD Rule 4663 (Solvent Storage, Cleaning and Storage)**

The operation was subject to District Rule 4684 (polyester Resin Operations) during the baseline period and was therefore exempt from this rule per section 4.3.1.3. No emissions discounting is necessary.

### **SCAQMD Rule 1171 (Solvent Cleaning Operations)**

Section (c)(1) of this rule limits the VOC content of solvents utilized for cleaning during manufacturing processes to 25 g/l (0.21 lb/gal). The only solvent utilized during the baseline period was Thermaclean Aquawash, which has a VOC content 0.07 lb/gal. Therefore, no period baseline emission discounting is necessary.

### **BAAQMD Regulation 8 Rule 16 (Adhesive and Sealant products):**

Section 8-51-320 of this rule includes work practice requirements that limit evaporative loss emissions but does not include solvent VOC content limits. District Rules already require that these work practices be followed, therefore, no baseline period emission discounting is necessary.

### **SMAQMD Rule 466 (Adhesives and Sealants):**

Section 303.1 of this rule limits the VOC content of solvents utilized for cleaning during manufacturing processes to 70 g/l (0.6 lb/gal). The only solvent utilized during the baseline period was Thermaclean Aquawash, which has a VOC content 0.07 lb/gal. Therefore, no period baseline emission discounting is necessary.

**Emission Limits:****N-3941-1, N-3941-2 & N-3941-3:**

These permits include a combined VOC emission limit of 250 lb/day. The following table shows the days a violation of this limit occurred, the daily emissions that occurred on that day and the excess VOC emissions that occurred on that day.

Date	Emission Quantity	Excess Emissions
4/20/2007	275.71	25.7
4/21/2007	268.2	18.2
4/23/2007	261.7	11.7
4/24/2007	261.4	11.4
4/26/2007	273.6	23.6
4/27/2007	252.7	2.7
4/28/2007	269.8	19.8
Total	----	113.1

**N-3941-4:**

This permit includes a VOC limit of 100 lb/day. The following table shows the days a violation of this limit occurred, the daily emissions that occurred on that day and the excess VOC emissions that occurred on that day.

Date	Emission Quantity	Excess Emissions
4/19/2007	114.7	14.7
4/24/2007	105.6	5.6
4/27/2007	108.2	8.2
Total	----	28.5

**N-3941-5:**

This permit includes a VOC limit of 100 lb/day. Facility records show that this limit was not exceeded during the baseline period.

**Permit Limit Exceedence Discounting:**

	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
2007	---	142	0	0
2008	0	0	0	0
2009	0	---	---	---
Average	0	71	0	0

**F. Timeliness:**

Applications for ATC's authorizing the emission reductions for which ERC's are proposed were received on the same day as the ERC application (March 30, 2010). Therefore, the application was timely.

**VII. Recommendation:**

Issue an Emission Reduction Credit Certificate to Malibu Boats in the following amounts after Authorities to Construct N-3941-1-7, N-3941-2-5, N-3941-3-5 and N-3941-4-5 are converted to Permits to Operate:

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
VOC (lb)	13,753	22,879	14,803	14,093

**VIII. Appendices**

Appendix A: Emission Factor Calculations

Appendix B: ATC's Authorizing the Reductions for which ERC's are Proposed

Appendix C: Draft Emission Reduction Credit Certificate

**Appendix A**  
**Emission Factor Calculations**

**Resins and Gelcoats:**

Emission Factor Equations (Table 2 of Rule 4684):

Production and Tooling Resins:  $0.014(\text{Resin VOC}\%)^{2.275}$   
 Pigmented & Clear Gelcoats:  $0.445(\text{Gelcoat VOC}\%)^{1.675}$

Material	Category	Monomer Content (wt. %)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
Optiplus 040-8094	Tooling Resin (non-atomized)	38.4	$0.014(\text{Resin VOC}\%)^{2.275}$	56.3
Imedge 100BK201	Pigmented Gelcoat	29.8		131.1
Imedge 100RH540	Pigmented Gelcoat	32.0		147.7
Imedge 100YH895	Pigmented Gelcoat	32.3		150.1
SprayCore 1055LS	Tooling Resin (non-atomized)	28	$0.014(\text{Resin VOC}\%)^{2.275}$	27.4
Imedge Barrier Coat 200LK202	Pigmented Gelcoat	30.0	$0.445(\text{Gelcoat VOC}\%)^{1.675}$	132.6
Patch Aid <sup>4</sup>	Pigmented Gelcoat	45		261.5
Valspar 5799A90073	Pigmented Gelcoat	31.7		145.4
Valspar 5799B90020	Pigmented Gelcoat	31.6		144.7
Valspar 5799E90056	Pigmented Gelcoat	31.5		143.9
Valspar 5799L90035	Pigmented Gelcoat	35		171.7
Valspar 5799R90052	Pigmented Gelcoat	31.9		147.0
Eastman 733-2246	Resin (non-atomized)	33.5		$0.014(\text{Resin VOC}\%)^{2.275}$
Polycor 945B023	Tooling Gelcoat (non-atomized)	46.92	$0.445(\text{Gelcoat VOC}\%)^{1.675}$	280.5
Polycor 945GA104	Tooling Gelcoat (non-atomized)	46.5		276.3

<sup>4</sup> As explained in the Surplus Emission section of this document, the monomer content utilized in the emission factor calculation was calculated utilizing the discounted content of 45% by weight.



**Resins and Gelcoats - Continued:**

Material	Category	Monomer Content (wt. %)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
ArmorFlex 953BK162	Pigmented Gelcoat	41.6	0.445(Gelcoat VOC%) <sup>1.675</sup>	229.3
ArmorFlex 953LK160	Pigmented Gelcoat	36.2		181.6
Buffback 954BJ232	Pigmented Gelcoat	41.6		229.3
Buffback 954LJ261	Pigmented Gelcoat	39.6		211.1
ArmorFlex 963LK160	Pigmented Gelcoat	28.6		122.4
ArmorFlex 963LK188	Pigmented Gelcoat	29.1		126.0
ArmorFlex 963RK139	Pigmented Gelcoat	28.7		123.1
ArmorFlex 963RK140	Pigmented Gelcoat	28.8		123.8
ArmorPlus 963WH671	Pigmented Gelcoat	30.2		134.1
ArmorFlex 963XA220	Clear Gelcoat	44.9		260.5
ArmorFlex 963XA221	Clear Gelcoat	44.7		258.6
Polycor 965BK183	Tooling Resin (non-atomized)	38.92		0.014(Resin VOC%) <sup>2.275</sup>
ArmorGuard 967BJ244	Pigmented Gelcoat	31.8	0.445(Gelcoat VOC%) <sup>1.675</sup>	146.2
Armor Guard 967BK150	Pigmented Gelcoat	32.1		148.5
ArmorCote 991AK138	Pigmented Gelcoat	30.8		138.6
ArmorCote 991AK139	Pigmented Gelcoat	32.0		147.7
ArmorCote 991AK140	Pigmented Gelcoat	29.8		131.1
ArmorCote 991BK136	Pigmented Gelcoat	32.5		151.6

**Resins and Gelcoats - Continued:**

Material	Category	Monomer Content (wt. %)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
ArmorCote 991BK139	Pigmented Gelcoat	32.6	0.445(Gelcoat VOC%) <sup>1.675</sup>	152.4
ArmorCote 991GH359	Pigmented Gelcoat	32.75		153.6
ArmorCote 991GH369	Pigmented Gelcoat	32.5		151.6
ArmorCote 991LK123	Pigmented Gelcoat	30.5		136.3
ArmorCote 991LK141	Pigmented Gelcoat	31.7		145.4
ArmorCote 991LK142	Pigmented Gelcoat	31.9		147.0
ArmorCote 991NH788	Pigmented Gelcoat	31.8		146.2
ArmorCote 991NK123	Pigmented Gelcoat	30.4		135.6
ArmorCote 991NK124	Pigmented Gelcoat	30.1		133.3
ArmorCote 991NK125	Pigmented Gelcoat	31.0		140.1
ArmorCote 991NK130	Pigmented Gelcoat	30.0		132.6
ArmorCote 991PK105	Pigmented Gelcoat	31.2		141.6
ArmorCote 991RK111	Pigmented Gelcoat	30.9		139.3
ArmorCote 991RK112	Pigmented Gelcoat	31.1		140.8
ArmorCote 991RK118	Pigmented Gelcoat	30.8		138.6
ArmorCote 991RK124	Pigmented Gelcoat	31.4		143.1
ArmorCote 991WH423	Pigmented Gelcoat	32.9		154.8

**Resins and Gelcoats - Continued:**

Material	Category	Monomer Content (wt. %)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
ArmorCote 991YK125	Pigmented Gelcoat	30.6	0.445(Gelcoat VOC%) <sup>1.675</sup>	137.1
ArmorCote 991YK132	Pigmented Gelcoat	30.6		137.1
Imedge 9EXFB379	Pigmented Gelcoat	29.6		129.7
Imedge 9EXFB385	Pigmented Gelcoat	30.7		137.8
Imedge 9EXFB389	Pigmented Gelcoat	30.5		136.3
Imedge 9EXFB395	Pigmented Gelcoat	31.1		140.8
IPS 300	Resin (non-atomized)	39	0.014(Resin VOC%) <sup>2.275</sup>	58.3
Stypol LHPC-3523	Resin (non-atomized)	31.63		36.2
Stypol LHPC-4121	Resin (non-atomized)	31.6		36.1
Stypol LHPC-4121	Resin (non-atomized)	31.6		36.1
Stypol LSPA-2201	Resin (non-atomized)	32.6		38.8
EZBOND 5787W00077	Resin (non-atomized)	30		32.1
Stypol LSPK-2221	Resin (non-atomized)	34.8		45.0
ITW SprayCore SC-VELR-4000	Resin (non-atomized)	32		37.2
ArmorStar VSXH-2200	Resin (non-atomized)	34.9		45.3

**Gelcoat & Resin Additives**

Material	VOC Content
Norox MEKP-9 Resin & Gelcoat Catalyst	45% by weight
Surfacing Agent (85-X3) – Gelcoat Additive	95% by weight

Material	Category	Monomer Content (wt%)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
Patch Aid Reducer (5788C90279)	Resin (non-atomized)	55.84	0.014(Resin VOC%) <sup>2.275</sup>	132.0
Patch Aid Booster/reducer (5788C90008)	Resin (non-atomized)	60		155.4

**Mold Materials:**

Material	VOC Content
Zyvax Mold Sealer GP	90% by wt
Zyvax Surface Cleaner	90% by wt
Flex-Z Mold Release	90% by wt

**General Use Solvents:**

Material	VOC Content (lb/gal)
Thermaclean Aquawash	0.07

**Adhesives:**

The actual VOC content of the ADH-4011 is 467.8 g/l (3.9 lb/gal). However, to ensure that the reductions generated by its reduced use are surplus, as required by Rule 2301, the VOC content that will be used in the reduction calculations will be 250 g/l (2.1 lb/gal). Refer to section VI.E of this document for a discussion.

The actual VOC content of the Westech materials is 80 g/l. However, to ensure that the reductions generated by its reduced use are surplus, as required by Rule 2301, the VOC content that will be used in the reduction calculations will be 50 g/l (0.42 lb/gal). Refer to section VI.E of this document for a discussion.

Material	VOC Content
3M Fastbond 100	5 g/l (0.04 lb/gal)
Keyston Bros. ADH4011	250 g/l (2.1 lb/gal) <sup>5</sup>
Westech (MB-01)	50 g/l (0.42 lb/gal) <sup>6</sup>

**Waxes:**

Material	VOC Content (lb/gal)
3M Finesse- It-It Wax	17% by weight
3M Marine Ultra Paste Wax	33.8% by weight

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<sup>5</sup> The VOC content of this material was discounted from 467 g/l to 250 g/l as explained in section VI.E of this document.

<sup>6</sup> The VOC content of this material was discounted from 80 g/l to 50 g/l as explained in section VI.E of this document.

**Appendix B**  
**ATC's Authorizing the Reductions for which ERC's are**  
**Proposed**



## AUTHORITY TO CONSTRUCT

PERMIT NO: N-3941-1-7

ISSUANCE DATE: 02/04/2011

LEGAL OWNER OR OPERATOR: MALIBU BOATS LLC  
MAILING ADDRESS: ONE MALIBU CT  
MERCED, CA 95340

LOCATION: ONE MALIBU COURT  
MERCED, CA

**EQUIPMENT DESCRIPTION:**

GEL COATING OPERATION SERVED BY A SPRAY BOOTH WITH EXHAUST FILTERS. MODIFICATION TO REDUCE THE EMISSION LIMITS SUCH THAT THE FACILITY IS NO LONGER A MAJOR SOURCE.

### CONDITIONS

1. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for a Minor Permit Modification. [District Rule 2520, 5.3.2] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. The particulate matter emissions from the stack of the paint spray booth shall not exceed 0.1 gr/dscf [District Rule 4201]
5. Exhaust fans shall be switched on prior to the start of the gel coat operation. [District Rule 2201]
6. The VOC emissions shall not exceed 15.0 pounds during any one day. [District Rule 2201]
7. The PM10 emissions shall not exceed 0.9 pounds during any one day. [District Rule 2201]
8. The facility-wide VOC emissions shall not exceed any of the following: 925 pounds during the first calendar quarter, 935 pounds during the second calendar quarter, 945 pounds during the third calendar quarter and 945 pounds during the fourth calendar quarter. [District Rule 2201]
9. Only HVLP, electrostatic, airless, or air assisted airless application equipment shall be used, and the application equipment shall be operated in accordance with the manufacturer's recommendations. [District Rule 4684]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadrejin, Executive Director / APCO

10. Permittee shall demonstrate that HVLP guns manufactured prior to 1/1/96 operate between 0.1 and 10 psig air atomizing pressure, by manufacturer's published technical material or by use of a certified air pressure tip gauge. [District Rule 4684]
11. Only low VOC polyester resins and gel coats shall be used. The monomer content of low VOC resins, except specialty resins, shall not exceed 35% by weight. The monomer content of low VOC pigmented gel coats shall not exceed 45% by weight. The monomer content of low VOC specialty resins and clear gel coats shall not exceed 50% by weight. [District Rule 4684]
12. The VOC content of organic solvents used in cleaning operations shall not exceed 25 g/l (0.21 lb/gal). [District Rule 4684]
13. The operator shall store and dispose of adhesives, sealants, catalysts, thinners, fresh and spent solvents and waste solvent materials such as cloth and paper in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing the contents of the containers or when the containers are empty. [District Rule 4684]
14. Daily records of the type and quantity of all resins, gel coats, fillers, catalysts and cleaning materials (including cleaning solvents) used shall be kept. [District Rule 4684]
15. Records of the VOC content, in weight percent, of all polyester resins, gel coats and filler materials, including the weight percent of non-monomer VOC in the resins and gel coats used or stored at the stationary source shall be kept. [District Rule 4684]
16. Records of the VOC content of all cleaning materials used and stored at the stationary source shall be kept. [District Rule 4684]
17. The facility operator shall calculate and record the facility-wide VOC emissions on a calendar quarter basis. The record shall be updated at least monthly. [District Rules 2201 and 4684]
18. A daily record of the VOC and PM10 emissions from this unit shall be kept. [District Rule 2201]
19. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 4684]





## AUTHORITY TO CONSTRUCT

PERMIT NO: N-3941-2-5

ISSUANCE DATE: 02/04/2011

LEGAL OWNER OR OPERATOR: MALIBU BOATS LLC  
MAILING ADDRESS: ONE MALIBU CT  
MERCED, CA 95340

LOCATION: ONE MALIBU COURT  
MERCED, CA

**EQUIPMENT DESCRIPTION:**

GEL COATING OPERATION SERVED BY A SPRAY BOOTH WITH EXHAUST FILTERS. MODIFICATION TO REDUCE THE EMISSION LIMITS SUCH THAT THE FACILITY IS NO LONGER A MAJOR SOURCE.

### CONDITIONS

1. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for a Minor Permit Modification. [District Rule 2520, 5.3.2] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. The particulate matter emissions from the stack of the paint spray booth shall not exceed 0.1 gr/dscf [District Rule 4201]
5. Exhaust fans shall be switched on prior to the start of the gel coat operation. [District Rule 2201]
6. The VOC emissions shall not exceed 15.0 pounds during any one day. [District Rule 2201]
7. The PM10 emissions shall not exceed 0.9 pounds during any one day. [District Rule 2201]
8. The facility-wide VOC emissions shall not exceed any of the following: 925 pounds during the first calendar quarter, 935 pounds during the second calendar quarter, 945 pounds during the third calendar quarter and 945 pounds during the fourth calendar quarter. [District Rule 2201]
9. Only HVLP, electrostatic, airless, or air assisted airless application equipment shall be used, and the application equipment shall be operated in accordance with the manufacturer's recommendations. [District Rule 4684]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services  
N-3941-2-5 : Feb 4 2011 8:14AM - BCHOINHOM : Joint Inspection NOT Required

10. Permittee shall demonstrate that HVLP guns manufactured prior to 1/1/96 operate between 0.1 and 10 psig air atomizing pressure, by manufacturer's published technical material or by use of a certified air pressure tip gauge. [District Rule 4684]
11. Only low VOC polyester resins and gel coats shall be used. The monomer content of low VOC resins, except specialty resins, shall not exceed 35% by weight. The monomer content of low VOC pigmented gel coats shall not exceed 45% by weight. The monomer content of low VOC specialty resins and clear gel coats shall not exceed 50% by weight. [District Rule 4684]
12. The VOC content of organic solvents used in cleaning operations shall not exceed 25 g/l (0.21 lb/gal). [District Rule 4684]
13. The operator shall store and dispose of adhesives, sealants, catalysts, thinners, fresh and spent solvents and waste solvent materials such as cloth and paper in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing the contents of the containers or when the containers are empty. [District Rule 4684]
14. Daily records of the type and quantity of all resins, gel coats, fillers, catalysts and cleaning materials (including cleaning solvents) used shall be kept. [District Rule 4684]
15. Records of the VOC content, in weight percent, of all polyester resins, gel coats and filler materials, including the weight percent of non-monomer VOC in the resins and gel coats used or stored at the stationary source shall be kept. [District Rule 4684]
16. Records of the VOC content of all cleaning materials used and stored at the stationary source shall be kept. [District Rule 4684]
17. The facility operator shall calculate and record the facility-wide VOC emissions on a calendar quarter basis. The record shall be updated at least monthly. [District Rules 2201 and 4684]
18. A daily record of the VOC and PM10 emissions from this unit shall be kept. [District Rule 2201]
19. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 4684]



## AUTHORITY TO CONSTRUCT

PERMIT NO: N-3941-3-5

ISSUANCE DATE: 02/04/2011

LEGAL OWNER OR OPERATOR: MALIBU BOATS LLC  
MAILING ADDRESS: ONE MALIBU CT  
MERCED, CA 95340

LOCATION: ONE MALIBU COURT  
MERCED, CA

**EQUIPMENT DESCRIPTION:**

POLYESTER RESIN AND ADHESIVE APPLICATION OPERATIONS. MODIFICATION TO REDUCE THE EMISSION LIMITS SUCH THAT THE FACILITY IS NO LONGER A MAJOR SOURCE AND TO CONSOLIDATE PERMIT N-9941-5 WITH THIS PERMIT SUCH THAT THE EQUIPMENT DESCRIPTION BECOMES: CHOPPER FLOW COATER TYPE FIBERGLASS AND RESIN APPLICATION OPERATION AND ASSOCIATED ADHESIVE APPLICATION EQUIPMENT AND A HAND LAY-UP TYPE FIBERGLASS AND RESIN OPERATION AND ASSOCIATED ADHESIVE APPLICATION EQUIPMENT.

### CONDITIONS

1. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for a Minor Permit Modification. [District Rule 2520, 5.3.2] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. The VOC emissions from the chopper flow coater type fiberglass and resin application operation and the associated adhesive application operation shall not exceed 15.0 pounds during any one day. [District Rule 2201]
5. The VOC emissions from the hand lay-up type fiberglass and resin application operation and the associated adhesive application operation shall not exceed 15.0 pounds during any one day. [District Rule 2201]
6. The facility-wide VOC emissions shall not exceed any of the following: 925 pounds during the first calendar quarter, 935 pounds during the second calendar quarter, 945 pounds during the third calendar quarter and 945 pounds during the fourth calendar quarter. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

7. Only low VOC polyester resins and gel coats shall be used. The monomer content of low VOC resins, except specialty resins, shall not exceed 35% by weight. The monomer content of low VOC pigmented gel coats shall not exceed 45% by weight. The monomer content of low VOC specialty resins and clear gel coats shall not exceed 50% by weight. [District Rule 4684]
8. The VOC content of organic solvents used in cleaning operations shall not exceed 25 g/l (0.21 lb/gal). [District Rules 4653 and 4684]
9. The operator shall store and dispose of adhesives, sealants, catalysts, thinners, fresh and spent solvents and waste solvent materials such as cloth and paper in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing material or when the containers are empty. The containers shall be self closing. [District Rules 4653 and 4684]
10. Mixing containers used for VOC containing adhesives and sealants, and process related waste materials shall be kept closed at all times except when depositing or removing materials. [District Rule 4653]
11. The operator shall minimize spills of VOC containing adhesives, sealants, cleaning materials and process related waste materials. [District Rule 4653]
12. VOC containing adhesives, sealants, solvents and process related waste materials shall be transferred from one location to another only in closed containers or pipes. [District Rule 4653]
13. For the adhesives application operation, solvent cleaning shall be conducted utilizing only the following methods: (1) Wipe cleaning, (2) Application from hand held spray bottles from which the solvents are dispensed without a propellant induced force, (3) A non-atomized solvent flow method in which the solvent is collected in a container or a system that is closed except for collection openings, and if necessary, pressure relief openings, (4) Solvent flushing, in which the cleaning solvent is discharged into a container that is closed except for collection openings and, if necessary, pressure relief openings. The discharged solvent must be collected into containers without atomizing it into the open air. The solvent must be flushed through the system by air pressure, hydraulic pressure or by pumping. [District Rule 4653]
14. The operator shall keep records of the VOC content, in grams/liter, of all adhesives and solvents used and stored at the facility. [District Rule 4653]
15. The operator shall keep a copy of the manufacturer's product data sheet or material safety data sheet for each solvent used in adhesives cleaning activities. [District Rule 4653]
16. Daily records of the type and quantity of all resins, gel coats, fillers, catalysts and cleaning materials (including cleaning solvents) used shall be kept. [District Rule 4684]
17. Records of the VOC content, in weight percent, of all polyester resins, gel coats and filler materials, including the weight percent of non-monomer VOC in the resins and gel coats used or stored at the stationary source shall be kept. [District Rule 4684]
18. The operator shall maintain a current list of the solvents that are being used in solvent cleaning activities that support the adhesives application operations. The list shall include (1) the product ID and the manufacturer's name, (2) the VOC content of the solvent, in grams/liter or pounds/gallon, (3) the mix ratio and the VOC content of the solvent if the solvent is a mixture blended by the operator, (4) The Rule 4653, table 6 category for each solvent. [District Rule 4653]
19. Records of the VOC content of all cleaning materials used in the polyester resin operations and stored at the stationary source shall be kept. [District Rule 4684]
20. The facility operator shall calculate and record the facility-wide VOC emissions on a calendar quarter basis. The record shall be updated at least monthly. [District Rules 2201 and 4684]
21. A daily record of the VOC emissions from these units shall be kept. Separate records shall be kept for the chopper flow coating operation and its associated adhesives application operation and for the hand lay-up operation and its associated adhesives application operation. [District Rule 2201]
22. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 4684]



## AUTHORITY TO CONSTRUCT

PERMIT NO: N-3941-4-5

ISSUANCE DATE: 02/04/2011

LEGAL OWNER OR OPERATOR: MALIBU BOATS LLC  
MAILING ADDRESS: ONE MALIBU CT  
MERCED, CA 95340

LOCATION: ONE MALIBU COURT  
MERCED, CA

**EQUIPMENT DESCRIPTION:**

GEL COAT OPERATION SERVED BY A SPRAY BOOTH AND A GEL COAT GUN. MODIFICATION TO REDUCE THE EMISSION LIMITS SUCH THAT THE FACILITY IS NO LONGER A MAJOR SOURCE.

### CONDITIONS

1. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for a Minor Permit Modification. [District Rule 2520, 5.3.2] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. The particulate matter emissions from the stack of the paint spray booth shall not exceed 0.1 gr/dscf [District Rule 4201]
5. Exhaust fans shall be switched on prior to the start of the gel coat operation. [District Rule 2201]
6. The VOC emissions shall not exceed 15.0 pounds during any one day. [District Rule 2201]
7. The PM10 emissions shall not exceed 0.9 pounds during any one day. [District Rule 2201]
8. The facility-wide VOC emissions shall not exceed any of the following: 925 pounds during the first calendar quarter, 935 pounds during the second calendar quarter, 945 pounds during the third calendar quarter and 945 pounds during the fourth calendar quarter. [District Rule 2201]
9. Only HVLP, electrostatic, airless, or air assisted airless application equipment shall be used, and the application equipment shall be operated in accordance with the manufacturer's recommendations. [District Rule 4684]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services  
N-3941-4-5, Feb 4 2011 8:18AM - ECHOHOM Joint Inspection NOT Required

10. Permittee shall demonstrate that HVLP guns manufactured prior to 1/1/96 operate between 0.1 and 10 psig air atomizing pressure, by manufacturer's published technical material or by use of a certified air pressure tip gauge. [District Rule 4684]
11. Only low VOC polyester resins and gel coats shall be used. The monomer content of low VOC resins, except specialty resins, shall not exceed 35% by weight. The monomer content of low VOC pigmented gel coats shall not exceed 45% by weight. The monomer content of low VOC specialty resins and clear gel coats shall not exceed 50% by weight. [District Rule 4684]
12. The VOC content of organic solvents used in cleaning operations shall not exceed 25 g/l (0.21 lb/gal). [District Rule 4684]
13. The operator shall store and dispose of adhesives, sealants, catalysts, thinners, fresh and spent solvents and waste solvent materials such as cloth and paper in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing the contents of the containers or when the containers are empty. [District Rule 4684]
14. Daily records of the type and quantity of all resins, gel coats, fillers, catalysts and cleaning materials (including cleaning solvents) used shall be kept. [District Rule 4684]
15. Records of the VOC content, in weight percent, of all polyester resins, gel coats and filler materials, including the weight percent of non-monomer VOC in the resins and gel coats used or stored at the stationary source shall be kept. [District Rule 4684]
16. Records of the VOC content of all cleaning materials used and stored at the stationary source shall be kept. [District Rule 4684]
17. The facility operator shall calculate and record the facility-wide VOC emissions on a calendar quarter basis. The record shall be updated at least monthly. [District Rules 2201 and 4684]
18. A daily record of the VOC and PM10 emissions from this unit shall be kept. [District Rule 2201]
19. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 4684]

**Appendix C**  
**Draft Emission Reduction Credit Certificate**

San Joaquin Valley  
Air Pollution Control District

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718

**Emission Reduction Credit Certificate**  
**N-942-1**

ISSUED TO: MALIBU BOATS LLC  
ISSUED DATE: <DRAFT>  
LOCATION OF REDUCTION: ONE MALIBU COURT  
MERCED, CA

**For VOC Reduction In The Amount Of:**

Quarter 1	Quarter 2	Quarter 3	Quarter 4
13,753 lbs	22,879 lbs	14,803 lbs	14,093 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source  
 Shutdown of Emissions Units  
 Other

Reduction in quantity of use of VOC containing materials. Prior to the issuance of this certificate, Authorities to Construct N-3941-1-7, N-3941-2-5, N-3941-3-5 and N-3941-4-5 shall be converted to Permits to Operate.

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

**DRAFT**

David Warner, Director of Permit Services



NORTHERN REGION

CENTRAL REGION

SOUTHERN REGION

# ERC/PUBLIC NOTICE CHECK LIST

PROJECT #s: N-1101305

*N-3941*

√ √  
REQST. COMPL.

— — ERC TRANSFER OF PREVIOUSLY BANKED CREDITS  
— — ERC PRELIMINARY PUBLIC NOTICE  
√ — ERC FINAL PUBLIC NOTICE

Date Completed [DATE COMPLETED] /By [SELECT SUPERVISOR]

√  Newspaper Notice Emailed to Clerical (Check box and tab to generate Notice)  
√  Send email to "OA-PublicNotices" containing the following:  
SUBJECT: Malibu Boats, N-3941, N-1101305, final notice  
BODY: Final Emission Reduction Credit Notice

### ENCLOSED DOCUMENTS REQUIRE:

√  Director's Signature and District Seal Embossed on ERC Certificates

√   Mail **FINAL** notice letter to applicant by **Certified Mail** including the following:  
√   Public Notice  
√   Original ERC Certificates

√  Email **FINAL** Public Notice for Publication to Merced Sun-Star

√  Email **FINAL** Public Notice package to EPA and CARB

√  Email **FINAL** Public Notice package to "webmaster"

√  Send **FINAL** Public Notice package to Mark Schonhoff  
*Email*

√  Assign Mailing Date

√ — Other Special Instructions (please specify): Print and process ERC certificate N-942-1

✓ *Tracker*  
✓ *Proof*  
✓ *En*  
✓ *Web*

DEC 21 2012

*VC*  
02227244

# CALIFORNIA NEWSPAPER SERVICE BUREAU

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Song  
SAN JOAQUIN VALLEY AIR POLL CONTROL DIST  
1990 E. GETTYSBURG AVE.  
FRESNO, CA 93726

### COPY OF NOTICE

Notice Type: GPN GOVT PUBLIC NOTICE  
Ad Description Final ERC, N-1101305, Malibu Boats, Merced

To the right is a copy of the notice you sent to us for publication in the MERCED SUN-STAR. Please read this notice carefully and call us with any corrections. The Proof of Publication will be filed with the County Clerk, if required, and mailed to you after the last date below. Publication date(s) for this notice is (are):

12/27/2012

CNS 2425518

#### NOTICE OF FINAL ACTION FOR THE ISSUANCE OF EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Malibu Boats, LLC for emission reductions generated by reducing the amount of VOC containing materials used, at One Malibu Court in Merced, CA. The quantity of ERCs to be issued is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

No comments were received following the District's preliminary decision on this project.

The application review for Project #N-1101305 is available for public inspection at [http://www.valleyair.org/notices/public\\_notices.idx.htm](http://www.valleyair.org/notices/public_notices.idx.htm) and the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 4800 ENTERPRISE WAY, MODESTO, CA.

12/27/12  
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MERCED SUN-STAR

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THE INTER-CITY EXPRESS, OAKLAND	(510) 272-4747



\* A 0 0 0 0 0 2 9 2 6 2 8 0 \*

## Song Thao

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**From:** Song Thao  
**Sent:** Friday, December 21, 2012 2:27 PM  
**To:** Gerardo Rios (SJV\_T5\_Permits@epamail.epa.gov); Mike Tollstrup (mtollstr@arb.ca.gov)  
**Subject:** Final ERC Public Notice for Malibu Boats, LLC Facility N-3941 Project N-1101305  
**Attachments:** Public Notice Package.pdf; Newspaper Notice.pdf

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Malibu Boats, LLC for emission reductions generated by reducing the amount of VOC containing materials used, at One Malibu Court in Merced, CA. The quantity of ERCs to be issued is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

## Song Thao

---

**From:** Mail Delivery System <MAILER-DAEMON@mseive02.rtp.epa.gov>  
**To:** SJV\_T5\_Permits@epamail.epa.gov  
**Sent:** Friday, December 21, 2012 2:27 PM  
**Subject:** Relayed: Final ERC Public Notice for Malibu Boats, LLC Facility N-3941 Project N-1101305

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

[SJV\\_T5\\_Permits@epamail.epa.gov](mailto:SJV_T5_Permits@epamail.epa.gov)

Subject: Final ERC Public Notice for Malibu Boats, LLC Facility N-3941 Project N-1101305

## Song Thao

---

**From:** Microsoft Outlook  
**To:** Mike Tollstrup (mtollstr@arb.ca.gov)  
**Sent:** Friday, December 21, 2012 2:27 PM  
**Subject:** Relayed: Final ERC Public Notice for Malibu Boats, LLC Facility N-3941 Project N-1101305

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

Mike Tollstrup (mtollstr@arb.ca.gov) (mtollstr@arb.ca.gov)

Subject: Final ERC Public Notice for Malibu Boats, LLC Facility N-3941 Project N-1101305

## **Song Thao**

---

**From:** Song Thao  
**Sent:** Friday, December 21, 2012 2:28 PM  
**To:** WebMaster  
**Subject:** valleyair.org update: Final ERC Public Notice for Malibu Boats, LLC Facility N-3941 Project N-1101305

December 21, 2012 (Facility N-3941 Project N-1101305) NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Malibu Boats, LLC for emission reductions generated by reducing the amount of VOC containing materials used, at One Malibu Court in Merced, CA. The quantity of ERCs to be issued is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

[Newspaper Notice](#)

[Public Notice Package](#)

U.S. Postal Service TM

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Merced, CA 95340

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City, State, Z

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- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "*Restricted Delivery*".
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

**IMPORTANT: Save this receipt and present it when making an inquiry.**

PS Form 3800, August 2006 (Reverse) PSN 7530-02-000-9047





DEC 21 2012

Jack Springer  
Malibu Boats, LLC  
One Malibu Court  
Merced, CA 95340

**RE: Notice of Final Action - Emission Reduction Credits**  
**Project Number: N-1101305**

Dear Mr. Springer:

The Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Malibu Boats, LLC for emission reductions generated by reducing the amount of VOC containing materials used, at One Malibu Court in Merced, CA. The quantity of ERCs to be issued is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

Enclosed are the ERC Certificates and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue the ERC Certificates was published on January 31, 2012. The District's analysis of the proposal was also sent to CARB and US EPA Region IX on January 26, 2012. No comments were received following the District's preliminary decision on this project.

Also enclosed is an invoice for the engineering evaluation fees pursuant to District Rule 3010. Please remit the amount owed, along with a copy of the attached invoice, within 60 days.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill at (209) 557-6400.

Sincerely,

David Warner  
Director of Permit Services

DW:MJS/st

Enclosures

**Seyed Sadredin**

Executive Director/Air Pollution Control Officer

**Northern Region**

4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**

1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**

34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



DEC 21 2012

Mike Tollstrup, Chief  
Project Assessment Branch  
Stationary Source Division  
California Air Resources Board  
PO Box 2815  
Sacramento, CA 95812-2815

**RE: Notice of Final Action - Emission Reduction Credits  
Project Number: N-1101305**

Dear Mr. Tollstrup:

The Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Malibu Boats, LLC for emission reductions generated by reducing the amount of VOC containing materials used, at One Malibu Court in Merced, CA. The quantity of ERCs to be issued is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

Enclosed are copies of the ERC Certificates and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue the ERC Certificates was published on January 31, 2012. The District's analysis of the proposal was also sent to CARB and US EPA Region IX on January 26, 2012. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill at (209) 557-6400.

Sincerely,

David Warner  
Director of Permit Services

DW:MJS/st

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



DEC 21 2012

Gerardo C. Rios (AIR 3)  
Chief, Permits Office  
Air Division  
U.S. E.P.A. - Region IX  
75 Hawthorne Street  
San Francisco, CA 94105

**RE: Notice of Final Action - Emission Reduction Credits  
Project Number: N-1101305**

Dear Mr. Rios:

The Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Malibu Boats, LLC for emission reductions generated by reducing the amount of VOC containing materials used, at One Malibu Court in Merced, CA. The quantity of ERCs to be issued is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

Enclosed are copies of the ERC Certificates and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue the ERC Certificates was published on January 31, 2012. The District's analysis of the proposal was also sent to CARB and US EPA Region IX on January 26, 2012. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill at (209) 557-6400.

Sincerely,

David Warner  
Director of Permit Services

DW:MJS/st

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718

# Emission Reduction Credit Certificate

## N-942-1

ISSUED TO: MALIBU BOATS LLC  
 ISSUED DATE: December 19, 2012  
 LOCATION OF REDUCTION: ONE MALIBU COURT  
 MERCED, CA

**For VOC Reduction In The Amount Of:**

Quarter 1	Quarter 2	Quarter 3	Quarter 4
13,753 lbs	22,879 lbs	14,803 lbs	14,093 lbs

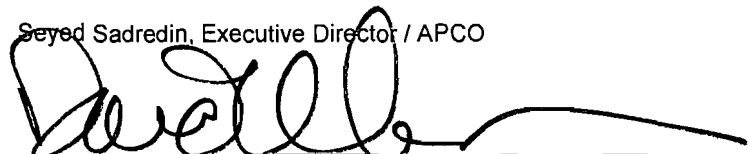
Conditions Attached

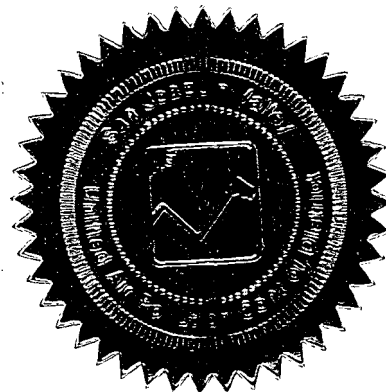
Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Reduction in quantity of use of VOC containing materials. Prior to the issuance of this certificate, Authorities to Construct N-3941-1-7, N-3941-2-5, N-3941-3-5 and N-3941-4-5 shall be converted to Permits to Operate.

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO  
  
 David Warner, Director of Permit Services



Merced Sun-Star

**NOTICE OF FINAL ACTION  
FOR THE ISSUANCE OF  
EMISSION REDUCTION CREDITS**

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Malibu Boats, LLC for emission reductions generated by reducing the amount of VOC containing materials used, at One Malibu Court in Merced, CA. The quantity of ERCs to be issued is 13,753 pounds in the first calendar quarter, 22,879 pounds in the second calendar quarter, 14,803 pounds in the third calendar quarter and 14,093 pounds in the fourth calendar quarter.

No comments were received following the District's preliminary decision on this project.

The application review for Project #N-1101305 is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the **SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 4800 ENTERPRISE WAY, MODESTO, CA 95356.**

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1-100

## APPENDIX C

Material Safety Data Sheets

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: OPTIPLUS 040-8094  
DESCRIPTION: UNSATURATED POLYESTER IN MONOMER  
PRODUCT CODE IDENTITY: 0408094B1  
NPCA HMIS RATING: H 2\* F 3 R 1  
REVISION: 02  
LAST REVISED : 05/23/2007  
DATE OF ISSUE: 07/15/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.\*\*\*

SECTION II INGREDIENTS

- 1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0290  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
- 2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .0250  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
- 3  
CAS# 000108-05-4  
VINYL ACETATE MONOMER  
PCT BY WT: .2200  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 PPM (30 MG/CU.M.)  
ACGIH TLV/STEL: 15 PPM (60 MG/CU.M.)  
LD50, Oral: 2920 MG/KG (RATS)  
LD50, Dermal: 2335 MG/KG (RABBITS)  
LC50, Inhalation: 4 HOUR - 4000 PPM (RATS)  
OTHER: IARC GROUP 2B - POSSIBLY CARCINOGENIC TO HUMANS

OTHER (cont.): WEAK SENSITIZER IN ANIMALS

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4  
CAS# 025013-15-4  
VINYL TOLUENE



\*\*\*\*\*  
\* OPTIPLUS 040-8094 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 0408094B1 \*  
\*\*\*\*\*

PCT BY WT: 5.3150 VAPOR PRESSURE: 1.100 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 50 PPM (240 MG/CU.M.)  
ACGIH TLV/STEL: 100 PPM (480 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (480 MG/CU.M.)

5  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 1.5400 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

6  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 36.6680 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

36.6  
1.54  
-22  
-----  
30.4

OTHER LIMITS:  
IARC - Group 2B See Section V

7  
CAS# 000098-83-9  
ALPHA METHYL STYRENE  
PCT BY WT: 1.0000  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 50 PPM (240 MG/CU.M.)  
ACGIH TLV/STEL: 100 PPM (485 MG/CU.M.)  
OSHA PEL/TWA: 50 PPM (240 MG/CU.M.)  
OSHA PEL/STEL: 100 PPM (485 MG/CU.M.)  
LD50, Oral: 4.9 G/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
OTHER: LCLO: 3000 PPM (RAT)

8  
UNSATURATED POLYESTER RESIN  
ON TSCA AND DSL INVENTORIES CAS# PROPRIETARY  
PCT BY WT: 5 - 10

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

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SECTION III PHYSICAL DATA

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Boiling Range: High- -N/A F Low- 163.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 8.7803 LB/GL  
Theoretical Specific Gravity, Calculated: 1.055

\*\*\*\*\*  
\* OPTIPLUS 040-8094 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 0408094B1 \*  
\*\*\*\*\*

Theoretical VOC, Calculated: 4.123 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: CLEAR, AMBER  
Odor: STYRENE  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 38.583  
% MONOMER BY WEIGHT 44.743

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 75.0 degrees F  
For Flash Points less than 73 deg. F.  
OSHA Flammability Classification: Class IB  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
DOT Shipping Name:  
DOT Shipping Name:  
Flash Points less than 73 deg. F. = RESIN SOLUTION, 3, UN1866, PG II  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 149980/SUB 2 RESIN COMPOUNDS, LIQUID LTL CLASS 55

\*\*\*\*\*  
\* OPTIPLUS 040-8094 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 0408094B1 \*  
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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause pneumonitis which can be fatal.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

PROPYLENE OXIDE

Propylene Oxide is listed by the International Agency for Research on Cancer (IARC) as "probably carcinogenic to humans" (Group 2A) and by the National Toxicity Program (NTP) as an "anticipated carcinogen" (Class b). Propylene Oxide is included on the list of "Chemicals Known to the State to Cause Cancer" published by the Governor of California under the California Safe Drinking Water and Toxic Enforcement Act of 1986.

VINYL ACETATE

Life-time exposure to high vapor concentrations (600 ppm) of vinyl acetate caused tumors of the respiratory tract of laboratory animals possibly being associated with the irritant effect. There is no evidence that vinyl acetate has caused cancer in humans.

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of

workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

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Lung effects have been observed in the mouse following repeated exposure to styrene.

VINYL TOLUENE

Extended overexposure to vinyl toluene can cause damage to kidneys and liver.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during use of this product until vapors are exhausted, unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits. Refer to OSHA Standard 1910.94.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with

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\* OPTIPLUS 040-8094 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 0408094B1 \*

\*\*\*\*\*  
contaminated clothing. Wash contaminated clothing, including shoes,  
before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings  
designed to comply with OSHA 1910.106. Keep away from heat, sparks and  
flame. Keep containers closed when not in use and upright to prevent  
leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally.  
Wash hands after using and before smoking or eating. Emptied containers  
may retain hazardous residue and explosive vapors. Keep away from heat,  
sparks and flames. Do not cut, puncture or weld on or near emptied con-  
tainers. Follow all hazard precautions given in this data sheet until  
container is thoroughly cleaned or destroyed.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

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SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:

This product contains the following substances subject to the  
reporting requirements of Section 313 of Title III of the Superfund  
Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0290

-----  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .0250

-----  
VINYL ACETATE MONOMER  
CAS# 000108-05-4 PCT BY WT: .2200

-----  
METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 1.5400

-----  
STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 36.6680

-----  
DISCLAIMER AND LIMITATION OF LIABILITY  
-----

The products sold hereunder shall meet Seller's applicable specifications  
at the time of shipment. Seller's specifications may be subject to change  
at any time without notice to Buyer. Buyer must give Seller notice in  
writing of any alleged defect covered by this warranty (together with all  
identifying details, including the Product Code(s), description and date  
of purchase) within thirty (30) days of the date of shipment of the product  
or prior to the expiration of the shipment's quality life, whichever occurs  
first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER  
WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED  
WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE  
ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.  
The Buyer's sole and exclusive remedy against Seller shall be for the  
replacement of the product or refund of the purchase price in the event  
that a defective condition of the product should be found to exist by  
Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR

CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with



\*\*\*\*\*  
\* OPTIPLUS 040-8094 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 0408094B1 \*

\*\*\*\*\*  
replacement of the product or refund of the purchase price of the product  
if any defect in material or workmanship is found to exist. This exclusive  
remedy shall not be deemed to have failed its essential purpose so long as  
Seller is willing and able to replace the defective products or refund the  
purchase price.  
\*\*\*\*\*

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: THERMACLEAN 0950040
DESCRIPTION: AQUAWASH RESIN EMULSIFIER
PRODUCT CODE IDENTITY: 0950040KCC
NPCA HMIS RATING: H 1 F 0 R 0

REVISION: 06
LAST REVISED: 09/29/2002
DATE OF ISSUE: 06/11/2004

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116

PREPARED BY:
HAZARD COMMUNICATION DEPT.

CUSTOMER: COMPOSITES ONE-HOUSTON
3900 CLAYMOORE PARK DRIVE
HOUSTON TX 77043

INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-3541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on target formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 006834-92-0
SODIUM METASILICATE PENTAHYDRATE
PCT BY WT: 1 - 5
EXPOSURE LIMIT:
ACGIH TLV/TWA: NONE ESTABLISHED
OSHA PEL/TWA: NONE ESTABLISHED

2
SURFACTANT MIXTURE
ON TSCA INVENTORY CAS# PROPRIETARY
PCT BY WT: 10 - 20
EXPOSURE LIMIT:
ACGIH TLV/TWA: NONE ESTABLISHED
OSHA PEL/TWA: NONE ESTABLISHED

This product contains no reported carcinogens or suspected carcinogens.

SECTION III PHYSICAL DATA

Boiling Range: High- 398.7 F Low- 212.0 F
Vapor Pressure: See Section II
Theoretical Weight per Gallon, Calculated: 8.4888 LB/GAL

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\* THERMACLEAN 0950040 MATERIAL SAFETY DATA SHEET \*  
\* 0950040KCC \*  
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Theoretical Specific Gravity, Calculated: 1.020  
Theoretical VOC, Calculated: .070 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: CLEAR, BLUE  
Odor: SLIGHT  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: MISCIBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: NO KNOWN HAZARD

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 220.0 degrees F  
OSHA Flammability Classification: Class IIIB  
DOT Flammability Classification: Not Regulated  
Lower Flammable Limit in Air: Lower -N/A X by volume  
DOT Shipping Name:  
CHEMICALS, N.O.I.

EXTINGUISHING MEDIA:  
None required.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
None known.

SPECIAL FIRE FIGHTING PROCEDURES:  
None known.

ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:

NMFC: 48580/SUB 3 CLEANING COMPOUNDS, LIQUID, NOI LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Can cause irritation. Direct contact may cause injury if exposure is prolonged or repeated.

SKIN CONTACT:

Prolonged or repeated contact with product may cause mild irritation.

INHALATION:

Prolonged overexposure to vapors or dust in poorly ventilated areas may cause nose and throat irritation.

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\* THERMACLEAN 0950040 MATERIAL SAFETY DATA SHEET \*  
\* 0950040KCC \*  
\*\*\*\*\*

**INGESTION:**  
May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

**EMERGENCY AND FIRST AID PROCEDURES:**  
In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

**CALIFORNIA PROPOSITION 65 INFORMATION:**  
This material contains no intentionally-added ingredients, covered by the California "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65), unless specifically stated under OTHER HEALTH HAZARDS, by individual chemical.

**OTHER HEALTH HAZARDS:**

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**SECTION VI REACTIVITY DATA**  
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**STABILITY:** Stable    **HAZARDOUS POLYMERIZATION:** None under normal conditions.

**CONDITIONS TO AVOID:**  
Elevated temperatures.

**INCOMPATIBILITY (MATERIALS TO AVOID):**  
None reasonably foreseeable.

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
Incomplete combustion can produce carbon monoxide.

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**SECTION VII SPILL OR LEAK PROCEDURES**  
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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**  
Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

**WASTE DISPOSAL METHOD:**  
Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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**SECTION VIII SPECIAL PROTECTION INFORMATION**  
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**RESPIRATORY PROTECTION:**  
Avoid breathing of spray mist. If sprayed, wear mechanical filter respirator to remove solid particles of overspray. Follow respirator manufacturer's directions for respirator use.

**VENTILATION:**  
Provide general clean air dilution or local exhaust ventilation in volume and pattern to prevent air contaminant concentration build-up. Refer to OSHA Standard 1910.94.

**PROTECTIVE GLOVES:**  
If there is potential for prolonged or repeated skin contact, wear plastic gloves for the duration of anticipated exposure.

**EYE PROTECTION:**  
Avoid contact with eyes. Use safety eyewear with splash guards or side shields.

**OTHER PROTECTIVE EQUIPMENT:**  
None normally required. If unable to avoid prolonged or repeated contact with skin, wear protective clothing.

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\* THERMACLEAN 0950040 MATERIAL SAFETY DATA SHEET \*  
\* 0950040KCC \*  
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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 120 deg. F. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Do not take internally. Wash hands after using and before eating.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

100BK201

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: IMEDGE  
 DESCRIPTION: 100X JET BLACK  
 PRODUCT CODE IDENTITY: 100BK201  
 NPCA HMIS RATING: H 2\* F 3 R 2

REVISION: 02  
 LAST REVISED : 01/07/2008  
 DATE OF ISSUE: 02/10/2008

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
 ADDRESS: 820 E. 14th AVENUE  
 NORTH KANSAS CITY, MO 64116

CUSTOMER:

PREPARED BY:  
 CCP PRODUCT STEWARDSHIP  
 INFORMATION TELEPHONE:  
 COMPOSITES: 1-800-821-3590  
 POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
 703-527-3887 (INTERNATIONAL)  
 FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\*\*\*  
 \*\*\* The percent by weight composition data given in Sections II \*\*\*  
 \*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
 \*\*\* formula values for each ingredient in the product. The data \*\*\*  
 \*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
 \*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
 \*\*\* batch concentrations will vary within limits consistent with \*\*\*  
 \*\*\* separately established product specifications. \*\*\*  
 \*\*\*\*\*

SECTION II INGREDIENTS

1  
 CAS# 000136-52-7  
 COBALT 2-ETHYLHEXANOATE, 12% COBALT  
 PCT BY WT: .1260  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
 CAS# MIXTURE  
 BLACK PIGMENT CONCENTRATE  
 PCT BY WT: 5 - 10  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: NONE ESTABLISHED  
 OSHA PEL/TWA: NONE ESTABLISHED

3  
 CAS# 000080-62-6  
 METHYL METHACRYLATE  
 PCT BY WT: 1.8000 VAPOR PRESSURE: 29.000 MMHG @ 68F  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
 LD50, Oral: 7.9 G/KG (RAT)  
 LD50, Dermal: 35.5 G/KG (RABBIT)

LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

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4  
CAS# 000100-42-5  
STYRENE MONOMER

PCT BY WT: 28.0070 VAPOR PRESSURE: 4.500 MMHG @ 68F

*28.0070*  
*1.0000*

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\*\*\*\*\*  
 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 100BK201 \*  
 \*\*\*\*\*

EXPOSURE LIMIT:

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
 ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (8 HR TWA)  
 OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
 OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
 LD50, Oral: 4.37 G/KG (RAT)  
 LD50, Dermal: >5 G/KG (RABBIT)  
 OTHER: LCLo: 5000 PPM/8H (RAT)  
 OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:

IARC - Group 2B See Section V

-----  
 \*\*\*\*\*  
 This product contains one or more reported carcinogens or suspected carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.  
 \*\*\*\*\*

\*\*\*\*\*  
 This substance is classified as a hazardous air pollutant.  
 \*\*\*\*\*

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 SECTION III PHYSICAL DATA  
 -----

Boiling Range: High- -N/A F Low- 212.0 F  
 Vapor Pressure: See Section II  
 Theoretical Weight per Gallon, Calculated: 9.1051 LB/GL  
 Theoretical Specific Gravity, Calculated: 1.094  
 Theoretical VOC, Calculated: 2.774 LB/GL  
 --If applicable, see Section X for further VOC information--  
 Physical State: LIQUID  
 Appearance: BLACK  
 Odor: MODERATE AROMATIC  
 Odor Threshold: -N/A  
 pH: -N/A  
 Freezing Point: -N/A  
 Water Solubility: INSOLUBLE  
 Coefficient of Water/Oil Distribution: -N/A  
 Mechanical Impact Explosion: NO KNOWN HAZARD  
 Static Electricity Explosion: AVOID STATIC CHARGE  
 % HAP BY WEIGHT 29.925  
 % MONOMER BY WEIGHT 29.835

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 SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 82.0 degrees F  
 For Flash Points 73 to 100 deg. F.  
 OSHA Flammability Classification: Class IC  
 DOT Flammability Classification: Flammable Liquid



\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100BK201 \*  
\*\*\*\*\*

Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system.

\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100BK201 \*  
\*\*\*\*\*

The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."  
An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.  
Lung effects have been observed in the mouse following repeated exposure to styrene.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.  
-----

SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.  
-----

SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below

\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100BK201 \*  
\*\*\*\*\*

applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund

Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100BK201 \*  
\*\*\*\*\*

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1260

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METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 1.8000  
-----

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 28.0070  
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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

## MATERIAL SAFETY DATA SHEET

## SECTION I - IDENTIFICATION

TRADE NAME: IMEDGE  
 DESCRIPTION: REGAL  
 PRODUCT CODE IDENTITY: 100RH540  
 NPCA HMIS RATING: H 2\* F 3 R 2  
 REVISION: 01  
 LAST REVISED : 11/27/2007  
 DATE OF ISSUE: 12/04/2007  
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
 ADDRESS: 820 E. 14th AVENUE  
 NORTH KANSAS CITY, MO 64116  
 PREPARED BY:  
 HAZARD COMMUNICATION DEPT.  
 CUSTOMER: INFORMATION TELEPHONE:  
 COMPOSITES: 1-800-821-3590  
 POLYMERS: 1-800-488-5541

## ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
 703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\* \* \* \* \*  
 \*\*\* The percent by weight composition data given in Sections II \*\*\*  
 \*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
 \*\*\* formula values for each ingredient in the product. The data \*\*\*  
 \*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
 \*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
 \*\*\* batch concentrations will vary within limits consistent with \*\*\*  
 \*\*\* separately established product specifications. \*\*\*  
 \* \* \* \* \*

## SECTION II INGREDIENTS

1  
 CAS# 027253-31-2  
 COBALT NEODECANOATE, 26% COBALT  
 PCT BY WT: .0300  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
 CAS# 000136-52-7  
 COBALT 2-ETHYLHEXANOATE, 12% COBALT  
 PCT BY WT: .1140  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
 CAS# 000080-62-6  
 METHYL METHACRYLATE  
 PCT BY WT: 3.8330 VAPOR PRESSURE: 29.000 MMHG @ 68F  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
 LD50, Oral: 7.9 G/KG (RAT)  
 LD50, Dermal: 35.5 G/KG (RABBIT)  
 LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

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4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 28.1550 VAPOR PRESSURE: 4.500 MMHG @ 68F

28.155  
3.833  

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31.988

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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
5  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST) ;5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST) ;5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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7  
UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
8 REACTIVE MONOMER  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F



Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.0530 LB/GL  
Theoretical Specific Gravity, Calculated: 1.088  
Theoretical VOC, Calculated: 3.248 LB/GL  
--If applicable , see Section X for further VOC information--

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 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 100RH540 \*  
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Physical State: LIQUID  
 Appearance: RED  
 Odor: MODERATE AROMATIC  
 Odor Threshold: -N/A  
 pH: -N/A  
 Freezing Point: -N/A  
 Water Solubility: INSOLUBLE  
 Coefficient of Water/Oil Distribution: -N/A  
 Mechanical Impact Explosion: NO KNOWN HAZARD  
 Static Electricity Explosion: AVOID STATIC CHARGE  
 % HAP BY WEIGHT 32.093  
 % MONOMER BY WEIGHT 34.720

-----  
 SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 82.0 degrees F  
 For Flash Points 73 to 100 deg. F.  
 OSHA Flammability Classification: Class IC  
 DOT Flammability Classification: Flammable Liquid  
 Lower Flammable Limit in Air: Lower- 1.1 % by volume  
 DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55  
 -----

SECTION V HEALTH HAZARD DATA  
 -----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

ETHYLENE GLYCOL MONOBUTYL ETHER

Exposure of experimental animals to ethylene glycol monobutyl ether has been found to produce a toxic effect on red blood cells, spleen, liver and kidney.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA

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\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0300

-----  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1140

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METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 3.8330

-----  
STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 28.1550  
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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE

ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.  
The Buyer's sole and exclusive remedy against Seller shall be for the  
replacement of the product or refund of the purchase price in the event

\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.



## MATERIAL SAFETY DATA SHEET

## SECTION I - IDENTIFICATION

TRADE NAME: IMEDGE  
 DESCRIPTION: CALIFORNIA YELLOW  
 PRODUCT CODE IDENTITY: 100YH895  
 NPCA HMIS RATING: H 2\* F 3 R 2  
 REVISION: 01  
 LAST REVISED : 11/27/2007  
 DATE OF ISSUE: 12/04/2007  
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
 ADDRESS: 820 E. 14th AVENUE  
 NORTH KANSAS CITY, MO 64116  
 CUSTOMER:  
 PREPARED BY:  
 HAZARD COMMUNICATION DEPT.  
 INFORMATION TELEPHONE:  
 COMPOSITES: 1-800-821-3590  
 POLYMERS: 1-800-488-5541

## ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
 703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the  
 Toxic Substances Control Act (TSCA), unless otherwise stated by  
 ingredient in Section II.

\* \* \* \* \*  
 \*\*\* The percent by weight composition data given in Sections II \*\*\*  
 \*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
 \*\*\* formula values for each ingredient in the product. The data \*\*\*  
 \*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
 \*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
 \*\*\* batch concentrations will vary within limits consistent with \*\*\*  
 \*\*\* separately established product specifications. \*\*\*  
 \* \* \* \* \*

## SECTION II INGREDIENTS

1  
 CAS# 027253-31-2  
 COBALT NEODECANOATE, 26% COBALT  
 PCT BY WT: .0310  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
 CAS# 000136-52-7  
 COBALT 2-ETHYLHEXANOATE, 12% COBALT  
 PCT BY WT: .1150  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
 CAS# 000080-62-6  
 METHYL METHACRYLATE  
 PCT BY WT: 3.8780 VAPOR PRESSURE: 29.000 MMHG @ 68F  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
 LD50, Oral: 7.9 G/KG (RAT)  
 LD50, Dermal: 35.5 G/KG (RABBIT)  
 LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

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4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 28.4560 VAPOR PRESSURE: 4.500 MMHG @ 68F

28.4560  
3.878  
-----  
32.3

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 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 100YH895 \*  
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EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
 ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (8 HR TWA)  
 OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
 OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
 LD50, Oral: 4.37 G/KG (RAT)  
 LD50, Dermal: >5 G/KG (RABBIT)  
 OTHER: LCLO: 5000 PPM/8H (RAT)  
 OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
 OTHER LIMITS:  
 IARC - Group 2B See Section V

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 5  
 CAS# 013463-67-7  
 TITANIUM DIOXIDE  
 PCT BY WT: 1.0030  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
 OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
 LD50, Oral: >7500 MG/KG (RAT)  
 LD50, Dermal: NOT AVAILABLE  
 LC50, Inhalation: NOT AVAILABLE

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 6  
 CAS# 068611-44-9  
 SILICA, AMORPHOUS  
 PCT BY WT: 1 - 5  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
 OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
 LD50, Oral: >5000 MG/KG (RAT)  
 LD50, Dermal: NOT AVAILABLE  
 LC50, Inhalation: NOT AVAILABLE

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 7  
 UNSATURATED POLYESTER RESIN  
 ON TSCA INVENTORY CAS# PROPRIETARY  
 PCT BY WT: 5 - 10  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: NONE ESTABLISHED  
 OSHA PEL/TWA: NONE ESTABLISHED

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 8  
 UNSATURATED POLYESTER RESIN  
 TSCA POLYMER EXEMPT  
 PCT BY WT: 20 - 30  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: NONE ESTABLISHED  
 OSHA PEL/TWA: NONE ESTABLISHED

-----  
 9 REACTIVE MONOMER  
 PCT BY WT: 1 - 5  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: NONE ESTABLISHED  
 OSHA PEL/TWA: NONE ESTABLISHED

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 \*\*\*\*\*

This product contains one or more reported carcinogens or suspected carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.

\*\*\*\*\*  
\*\*\*\*\*

This substance is classified as a hazardous air pollutant.

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SECTION III PHYSICAL DATA  
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 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 100YH895 \*  
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Boiling Range: High- -N/A F Low- 212.0 F  
 Vapor Pressure: See Section II  
 Theoretical Weight per Gallon, Calculated: 9.0389 LB/GL  
 Theoretical Specific Gravity, Calculated: 1.086  
 Theoretical VOC, Calculated: 3.267 LB/GL  
 --If applicable, see Section X for further VOC information--  
 Physical State: LIQUID  
 Appearance: YELLOW  
 Odor: MODERATE AROMATIC  
 Odor Threshold: -N/A  
 pH: -N/A  
 Freezing Point: -N/A  
 Water Solubility: INSOLUBLE  
 Coefficient of Water/Oil Distribution: -N/A  
 Mechanical Impact Explosion: NO KNOWN HAZARD  
 Static Electricity Explosion: AVOID STATIC CHARGE  
 % HAP BY WEIGHT 32.441  
 % MONOMER BY WEIGHT 35.098

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 SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 82.0 degrees F  
 For Flash Points 73 to 100 deg. F.  
 OSHA Flammability Classification: Class IC  
 DOT Flammability Classification: Flammable Liquid  
 Lower Flammable Limit in Air: Lower- 1.1 % by volume  
 DOT Shipping Name:  
 Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

\*\*\*\*\*  
 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 100YH895 \*  
 \*\*\*\*\*  
 NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55  
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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

CARBON BLACK

The IARC evaluation in Monograph 65 concluded that "there is sufficient evidence in experimental animals for the carcinogenicity of Carbon Black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans (Group 2B)". Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific

and does not correlate to human exposure.

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 \* MATERIAL SAFETY DATA SHEET \*  
 \* 100YH895 \*  
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Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

#### METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

#### ETHYLENE GLYCOL MONOBUTYL ETHER

Exposure of experimental animals to ethylene glycol monobutyl ether has been found to produce a toxic effect on red blood cells, spleen, liver and kidney.

#### METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

### SECTION VI REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
 CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

#### INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

### SECTION VII SPILL OR LEAK PROCEDURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

#### WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

### SECTION VIII SPECIAL PROTECTION INFORMATION

#### RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

#### VENTILATION:

Provide general clean air dilution or local exhaust ventilation in



volume and pattern to keep the air contaminant concentration below the

\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100YH895 \*  
\*\*\*\*\*

lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0310  
-----

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1150

\*\*\*\*\*  
 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 100YH895 \*  
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 METHYL METHACRYLATE  
 CAS# 000080-62-6 PCT BY WT: 3.8780  
 -----

STYRENE MONOMER  
 CAS# 000100-42-5 PCT BY WT: 28.4560  
 -----

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 \*\*\*\*\*  
 DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

# MATERIAL SAFETY DATA SHEET

Date Prepared: 10/27/05  
TOL 1055

Page: 1 of 7  
MSDS Number: 103408

## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Material Identity

Product Name: SprayCore 1055-LS Ceramic Tooling  
Product Numbers: 103408  
Product Use: Tooling Material

### Company

ITW SprayCore  
a Division of Illinois Tool Works Inc.  
11701 56<sup>th</sup> Court N  
Clearwater, FL USA  
Phone: 513-489-7600

### Emergency Telephone Numbers:

CHEMTREC: 1-800-424-9300  
CANUTEC: 1-613-996-6666

Prepared By: Safety Department

## SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	EINECS Number	% (by weight)
Polyester Resin	Proprietary	Proprietary	32 – 36
Inert Filler	Proprietary	Proprietary	30 – 34
Styrene	100-42-5	20-851-5	27
Precipitated Silica	112926-00-8	N/L	1 – 3
Methyl Methacrylate	80-62-6	201-297-1	1

) 28%

## SECTION 3. HAZARDS IDENTIFICATION

### \*\*\*EMERGENCY OVERVIEW\*\*\*

WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED.  
CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION.

### Potential Health Effects

#### Acute Effects (Short Term):

**Eye:** Contact with liquid or vapor may result in irritation, redness, tearing, and blurred vision.

**Skin:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

**Swallowing:** Ingestion of this material may cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Aspiration of this material into the lungs due to vomiting may produce chemical pneumonitis which can be fatal.

**Inhalation:** Excessive inhalation of vapors may cause nasal and respiratory irritation, acute nervous system depression,

## MATERIAL SAFETY DATA SHEET

Date Prepared: 10/27/05  
TOL 1055

Page: 2 of 7  
MSDS Number: 103408

fatigue, weakness, nausea, headache, and dizziness.  
Symptoms usually occur at air concentrations higher than  
the recommended exposure limits (See Section 8).

### Chronic Effects of Overexposure (Long Term):

**Styrene:** Excessive overexposure to styrene has been found to cause the following effects in humans and may aggravate pre-existing disorders of these organs; central nervous system effects, effects on hearing, mild effects on color vision and respiratory tract damage.

**Cancer Information:** The International Agency for Research on Cancer (IARC) has classified styrene as a group 2B carcinogen (possibly carcinogenic to humans). This classification is not based on evidence that styrene may be carcinogenic, but rather on a revised definition for Group 2B, and consideration of new data on styrene oxide (Group 2A). The IARC has classified crystalline silica as a group 1 carcinogen (sufficient evidence of carcinogenicity in humans).

**Other Health Effects:** NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**Primary Route(s) of Entry:** Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

### SECTION 4. FIRST AID MEASURES

**Eyes:** Flush eyes gently with water for at least 15 minutes. Seek immediate medical attention.

**Skin:** Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing:** Consult a physician or poison control center immediately. DO NOT INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

## MATERIAL SAFETY DATA SHEET

Date Prepared: 10/27/05

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TOL 1055

MSDS Number: 103408

**Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel.

### SECTION 5. FIRE FIGHTING MEASURES

**Flash Point:** 50 F (10 C)

**Explosive Limit:** Lower: 1.1 % Upper: 6.1%

**Autoignition Temperature:** 914 F (490C)

**OSHA Flammability Class:** Flammable Liquid – Class IB

**Hazardous Products of Combustion:** May form toxic and corrosive gases: carbon dioxide, carbon monoxide, styrene oxide, aniline, nitrogen oxides hydrogen cyanide and various hydrocarbons.

**Fire and Explosion Hazards:** Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

**Extinguishing Media:** Regular foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions:** This product is flammable and insoluble in water. Use dry chemicals, carbon dioxide, alcohol foam or water spray for a small fire. For large fires use water spray or fog. Never direct a water jet in the container in order to prevent any splashing of this product which could cause spreading of the fire. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.

**NFPA Rating:** Health -2, Flammability -3, Reactivity -2

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**In Case of Spill:** Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbent and dispose of properly.

### SECTION 7. HANDLING AND STORAGE

**Handling:** All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe sanding dust, vapors or spray

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mist. Do not take internally. Close container after each use. **Keep out of reach of children.**

**Storage:** Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye Protection:** Chemical splash goggles in compliance with OSHA regulations are recommended.

**Skin Protection:** Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. A barrier cream may be used for additional skin protection. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory Protection:** Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below acceptable limits. Explosion-proof ventilation system is acceptable.

#### **Exposure Guidelines:**

Hazardous Ingredients	CAS Number	OSHA PEL/TWA	ACGIH TLV
Precipitated Silica	112926-00-8	20 mppcf	10 mg/m <sup>3</sup>
Styrene	100-42-5	100 ppm	20 ppm
Methyl Methacrylate	80-62-6	100 ppm	100 ppm

Mppcf- millions of particles per cubic foot of air N/E-Not Established

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	214 - 293 °F/ 100 - 145 °C	<b>Vapor Density:</b>	3.59 (styrene) (air =1)
<b>Specific Gravity / Density:</b>	1.25- 1.32/ 10.4-11.0 lbs/gal	<b>Percent Volatiles by weight:</b>	28 %
<b>Evaporation Rate:</b>	Slower than ethyl ether	<b>Physical State:</b>	Liquid (viscous)
<b>Melting Point:</b>	-23.1 °F / -30.6 °C (styrene)	<b>pH:</b>	Neutral



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<b>Odor:</b>	Aromatic	<b>Solubility:</b>	Slightly soluble in water
<b>Vapor Pressure:</b>	4.5 mm Hg @ 20 C (styrene)	<b>Appearance:</b>	Gray liquid
<b>Octanol/Water Partition Coefficient:</b>	Unknown		
<b>VOC (as packaged-less exempts and</b>	2.76 lbs/gal 331 g/L	<b>VOC (as applied* - 2%by wt hardener-less exempts and</b>	NA
<b>VHAP Content by weight – as packaged:</b>	28%	<b>VHAP Content by weight – as applied* - 2 % by weight</b>	NA

\*NOTE: The applied VOC and VHAP Content is lower than the packaged VOC and VHAP Content due to a reactive diluent (styrene) that reacts and becomes non-volatile (bonded in the solid material) when the hardener is added.

### SECTION 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Product may undergo hazardous polymerization if exposed to extreme heat.

**Hazardous Decomposition:** May form toxic and corrosive gases: carbon dioxide, carbon monoxide, styrene oxide, nitrogen oxides hydrogen cyanide and various hydrocarbons.

**Chemical Stability:** Stable under normal handling conditions.

**Incompatibility:** Avoid contact in uncontrolled conditions with: peroxides, strong acids, strong oxidizing agents, halogens and polymerization catalysts.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity Data:

Ingredient	CAS #	LD <sub>50</sub> Oral-Rat	LC <sub>50</sub> Inhalation-Rat
Styrene	100-42-5	500 mg/kg	24 g/m <sup>3</sup> /4H
Methyl Methacrylate	80-62-6	7,872 mg/kg	3,750 ppm

N/E-Not Established

**Carcinogenicity:** See Cancer Information, Section 3.

**Mutagenicity:** No significant evidence found.

**Teratogenicity:** No significant risk of birth defects or reproductive toxicity of styrene to humans.

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## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Styrene is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits.

## SECTION 13. DISPOSAL CONSIDERATION

**RCRA Hazardous Waste:** This material as supplied, if discarded, would be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state, and local regulations.

**RCRA Hazard Class:** This material would be regulated as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

## SECTION 14. TRANSPORT INFORMATION

**DOT Description:** The DOT Classification for shipping is dependant on quantity, type of packaging (a kit may include other components), or method of shipment.

## SECTION 15. REGULATORY INFORMATION

### US Federal Regulations

#### **TSCA (Toxic Substances Control Act) Status**

TSCA (USA) The intentional ingredients of this product are listed.

#### **CERCLA RQ - 40 CFR 302.4(a)**

<u>Component</u>	<u>RQ (lbs.)</u>
Styrene	1000

**SARA Title III: Section 302- Extremely Hazardous Substances**  
none

#### **SARA Title III: Section 313- Toxic Chemical List**

<u>Component</u>	<u>CAS Number</u>	<u>Percentage</u>
Styrene	100-42-5	27%
Methyl Methacrylate	80-62-6	1%

#### **EPA Hazardous Air Pollutants (HAPS) 40 CFR 63**

<u>Component</u>	<u>CAS Number</u>	<u>Percentage</u>
Styrene	100-42-5	27%
Methyl Methacrylate	80-62-6	1%

### International Regulations

**EINECS (Europe)** The intentional ingredients of this product are listed.

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**DSL (Canada)** The intentional ingredients of this product are listed.

### **WHMIS Classification**

**Health Hazard: D2A , D2B (Other Toxic Effects)**

**Physical Hazard: B2 (Flammable)**

### **State and Local Regulations**

**California Proposition 65:** This product contains the following chemical(s) known to the state of California to cause cancer.

STYRENE OXIDE, CRYSTALLINE SILICA, CARBON BLACK

Styrene, in the presence of air and high temperature or prolonged exposure of styrene/air mixture to sunlight, can react to form styrene oxide.

This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. NONE

## **SECTION 16. OTHER INFORMATION**

**HMIS Rating:** Health -2, Flammability -3, Reactivity - 1  
Key- 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, \*=Chronic Effects

**Other Precautions for Use:** This product must be mixed with catalyst prior to use. Please refer to the Material Safety Data Sheet for catalyst before using. If product is to be sanded, the OSHA PEL/TLV of 10 mg/m<sup>3</sup> for nuisance dust should be observed.

Additional Information may be obtained by calling the Evercoat MSDS Hotline at 1-800-729-7600.

**NOTICE:** The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: IMEDGE  
 DESCRIPTION: IMEDGE BARRIER COAT  
 PRODUCT CODE IDENTITY: 200LK202  
 NPCA HMIS RATING: H 2\* F 3 R 2  
 REVISION: 02  
 LAST REVISED : 09/06/2007  
 DATE OF ISSUE: 05/12/2008  
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
 ADDRESS: 820 E. 14th AVENUE  
 NORTH KANSAS CITY, MO 64116  
 CUSTOMER:  
 PREPARED BY:  
 CCP PRODUCT STEWARDSHIP  
 INFORMATION TELEPHONE:  
 COMPOSITES: 1-800-821-3590  
 POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
 703-527-3887 (INTERNATIONAL)  
 FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
 CAS# 000136-52-7  
 COBALT 2-ETHYLHEXANOATE, 12% COBALT  
 PCT BY WT: .2050  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
 CAS# 000100-42-5  
 STYRENE MONOMER  
 PCT BY WT: 29.9960 VAPOR PRESSURE: 4.500 MMHG @ 68F  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
 ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (8 HR TWA)  
 OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
 OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
 LD50, Oral: 4.37 G/KG (RAT)  
 LD50, Dermal: >5 G/KG (RABBIT)  
 OTHER: LCLo: 5000 PPM/8H (RAT)  
 OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
 OTHER LIMITS:  
 IARC - Group 2B See Section V

29.996

3

CAS# 067762-90-7

SILICA, AMORPHOUS-HYDROPHOBIC

PCT BY WT: 1 - 5

EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M. (TOTAL DUST); 5MG/CU.M. (RESPIRABLE DUST)

\*\*\*\*\*  
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\* 200LK202 \*  
\*\*\*\*\*

OSHA PEL/TWA: 15MG/CU.M. (TOTAL DUST); 5MG/CU.M. (RESPIRABLE DUST)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
4  
UNSATURATED POLYESTER RESIN CAS# PROPRIETARY  
ON TSCA INVENTORY PCT BY WT: 60 - 70  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
-----

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*  
-----

SECTION III PHYSICAL DATA

-----  
Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.6398 LB/GL  
Theoretical Specific Gravity, Calculated: 1.158  
Theoretical VOC, Calculated: 2.938 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLUE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.130  
% MONOMER BY WEIGHT 30.117  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA

-----  
FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid

\*\*\*\*\*  
 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 200LK202 \*  
 \*\*\*\*\*

Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
 SECTION V HEALTH HAZARD DATA  
 -----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either

\*\*\*\*\*  
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\* MATERIAL SAFETY DATA SHEET \*  
\* 200LK202 \*  
\*\*\*\*\*

humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene." An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. Lung effects have been observed in the mouse following repeated exposure to styrene.

TOLUHYDROQUINONE

Tolhydroquinone is moderately toxic and may be harmful if ingested or inhaled. The dust is irritating to the eyes and respiratory system. No chronic effects are known. Ingestion is expected to be minimal under normal industrial conditions and handling. Spills of liquids containing tolhydroquinone should be cleaned up thoroughly and immediately to avoid creation of dust. WARNING: Airborne dust can form an explosive mixture in air.

-----  
SECTION VI REACTIVITY DATA  
-----

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for



respirator use. Observe OSHA Standard 29CFR 1910.134.

\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 200LK202 \*  
\*\*\*\*\*

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

-----  
SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
COBALT 2-ETHYLHEXANOATE, 12% COBALT

\*\*\*\*\*  
 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 200LK202 \*  
 \*\*\*\*\*  
 CAS# 000136-52-7 PCT BY WT: .2050

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 STYRENE MONOMER  
 CAS# 000100-42-5 PCT BY WT: 29.9960  
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 -----  
 DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.



WAX

## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M(TM) Finesse-it(TM) II Finishing Material PN 05928 05929 05932  
**MANUFACTURER:** 3M  
**DIVISION:** Automotive Aftermarket  
  
**ADDRESS:** 3M Center  
 St. Paul, MN 55144-1000

**EMERGENCY PHONE:** 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 06/09/2008  
**Supersedes Date:** 06/12/2006

**Document Group:** 19-2246-7

**Product Use:**

**Intended Use:** Automotive  
**Specific Use:** Removal of imperfections from painted surface.

### SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
WATER	7732-18-5	40 - 70
ALUMINUM OXIDE	1344-28-1	5 - 10
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	64742-48-9	5 - 10
DECAMETHYLCYCLOPENTASILOXANE	541-02-6	3 - 7
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	64742-14-9	3 - 7
DODECAMETHYLCYCLOHEXASILOXANE	540-97-6	1 - 5
GLYCERIN	56-81-5	1 - 5

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Emulsion

**Odor, Color, Grade:** Slight solvent odor, white liquid

**General Physical Form:** Liquid

**Immediate health, physical, and environmental hazards:** Combustible liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause target organ effects.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

**Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

**Inhalation:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

**Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature  
Flash Point

No Data Available  
120 °F [Test Method: Closed Cup]

Flammable Limits - LEL  
Flammable Limits - UEL

No Data Available  
No Data Available

## 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

## 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Combustible liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

**Note:** See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

Keep out of the reach of children. Avoid breathing of vapors, mists or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid contact with oxidizing agents. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

### 7.2 STORAGE

Store away from heat. Store out of direct sunlight. Store away from acids. Store away from oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Safety Glasses with side shields; Indirect Vented Goggles.

#### 8.2.2 Skin Protection

Avoid prolonged or repeated skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Neoprene.

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges and P95 particulate prefilters, Half facepiece or fullface air-purifying respirator with P95 particulate filters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

### 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
ALUMINUM OXIDE	ACGIH	TWA, particulate matter, < 1% crystalline silica	10 mg/m3	Table A4
ALUMINUM OXIDE	CMRG	TWA	1 fiber/cc	
ALUMINUM OXIDE	OSHA	TWA, respirable	5 mg/m3	Table Z-1
ALUMINUM OXIDE	OSHA	TWA, Vacated, as dust	10 mg/m3	
ALUMINUM OXIDE	OSHA	TWA, as total dust	15 mg/m3	Table Z-1
DECAMETHYLCYCLOPENTASILOXANE	CMRG	TWA	10 ppm	
GLYCERIN	ACGIH	TWA, as mist	10 mg/m3	
GLYCERIN	OSHA	TWA, as mist, respirable	5 mg/m3	Table Z-1
GLYCERIN	OSHA	TWA, Vacated, as mist, total dust	10 mg/m3	
GLYCERIN	OSHA	TWA, as mist, total dust	15 mg/m3	Table Z-1
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	3M	TWA	100 ppm	
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	CMRG	TWA	300 ppm	
OIL MIST, MINERAL	ACGIH	TWA, as mist	5 mg/m3	
OIL MIST, MINERAL	ACGIH	STEL, as mist	10 mg/m3	
OIL MIST, MINERAL	OSHA	TWA, as mist	5 mg/m3	Table Z-1
VEGETABLE OIL MISTS	OSHA	TWA, as mist	10 mg/m3	Table Z-1A

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists  
 CMRG: Chemical Manufacturer Recommended Guideline  
 OSHA: Occupational Safety and Health Administration  
 AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form:	Emulsion
Odor, Color, Grade:	Slight solvent odor, white liquid
General Physical Form:	Liquid
Autoignition temperature	No Data Available
Flash Point	120 °F [Test Method: Closed Cup]
Flammable Limits - LEL	No Data Available
Flammable Limits - UEL	No Data Available
Boiling point	> 95 °F
Density	8.6 lb/gal
Vapor Density	No Data Available
Vapor Pressure	No Data Available
Specific Gravity	1.03 [Ref Std: WATER=1]
pH	7.5 - 8.5
Melting point	No Data Available
Solubility in Water	Negligible
Volatile Organic Compounds	< 17 % weight
Viscosity	12000 - 16000

**SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

**Hazardous Decomposition or By-Products**

<u>Substance</u>	<u>Condition</u>
Formaldehyde	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

**SECTION 11: TOXICOLOGICAL INFORMATION**

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.



## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

**EPA Hazardous Waste Number (RCRA):** D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14: TRANSPORT INFORMATION

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

### 311/312 Hazard Categories:

Fire Hazard - Yes    Pressure Hazard - No    Reactivity Hazard - No    Immediate Hazard - Yes    Delayed Hazard - Yes

### STATE REGULATIONS

Contact 3M for more information.

## CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

## INTERNATIONAL REGULATIONS

Contact 3M for more information.

WHMIS: Hazardous

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

### NFPA Hazard Classification

Health: 2 Flammability: 2 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

### HMIS Hazard Classification

Health: 1 Flammability: 1 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS(r)) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS(r) ratings are to be used with a fully implemented HMIS(r) program. HMIS(r) is a registered mark of the National Paint and Coatings Association (NPCA).

### Revision Changes:

Section 1: Product use information was modified.

Copyright was modified.

Section 3: Potential effects from inhalation information was modified.

Section 6: Release measures information was modified.

Section 16: HMIS hazard classification heading was added.

Section 16: HMIS hazard classification for health was added.

Section 16: HMIS hazard classification for flammability was added.

Section 16: HMIS hazard classification for reactivity was added.

Section 16: HMIS hazard classification for protection was added.

Section 16: HMIS explanation was added.

Section 2: Ingredient table was added.

Section 8: Exposure guidelines ingredient information was added.

Section 8: Exposure guidelines legend was added.

Section 8: Exposure guidelines data source legend was added.

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WAX

## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M(TM) Marine Ultra Performance Paste Wax, PN 09030  
**MANUFACTURER:** 3M  
**DIVISION:** Marine & Specialty Vehicle  
  
**ADDRESS:** 3M Center  
 St. Paul, MN 55144-1000

**EMERGENCY PHONE:** 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 01/09/2008  
**Supersedes Date:** 06/26/2007

**Document Group:** 16-2890-8

**Product Use:**

**Specific Use:** Wax for Boats  
**Intended Use:** Marine

### SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	15 - 40
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	64742-48-9	15 - 40
CARNAUBA WAX	8015-86-9	10 - 30
Siloxanes and Silicones, di-Me	63148-62-9	7 - 13
MONTAN WAX	68476-03-9	3 - 7
SYNTHETIC HYDROCARBON MIXTURE (NJRTK # 80100348-5009P)	Trade Secret	1 - 5
SILANE POLYMER WITH SILOXANES	Trade Secret	0.5 - 1.5

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Paste

**Odor, Color, Grade:** Coconut Scent, Light Yellow

**General Physical Form:** Solid

**Immediate health, physical, and environmental hazards:** Flammable solid.

May cause target organ effects.

#### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin Contact:**

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

**Inhalation:**

Intentional concentration and inhalation may be harmful or fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

**Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

**Autoignition temperature**

*No Data Available*

**Flash Point**

*[Details: FLAMMABLE SOLID]*

**Flammable Limits - LEL**

*No Data Available*

Flammable Limits - UEL

No Data Available

## 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

## 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Flammable solid.

**Note:** See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid skin contact. Keep out of the reach of children. Avoid contact with oxidizing agents. Avoid eye contact with dust or airborne particles. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

### 7.2 STORAGE

Store away from oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggles.

**8.2.2 Skin Protection**

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Neoprene, Nitrile Rubber.

**8.2.3 Respiratory Protection**

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

**8.2.4 Prevention of Swallowing**

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

**8.3 EXPOSURE GUIDELINES**

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	3M	TWA	100 ppm	
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	CMRG	TWA	300 ppm	
HYDROTREATED LIGHT PETROLEUM DISTILLATES	CMRG	TWA	300 ppm	

**SOURCE OF EXPOSURE LIMIT DATA:**

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacturer Recommended Guideline
- OSHA: Occupational Safety and Health Administration
- AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Specific Physical Form:</b>	Paste
<b>Odor, Color, Grade:</b>	Coconut Scent, Light Yellow
<b>General Physical Form:</b>	Solid
<b>Autoignition temperature</b>	<i>No Data Available</i>
<b>Flash Point</b>	[Details: FLAMMABLE SOLID]
<b>Flammable Limits - LEL</b>	<i>No Data Available</i>
<b>Flammable Limits - UEL</b>	<i>No Data Available</i>
<b>Boiling point</b>	150 °C
<b>Density</b>	6.80 - 7.10 lb/gal [@ 77 °F]
<b>Vapor Density</b>	>=1.00 [Ref Std: AIR=1]
<b>Vapor Pressure</b>	<i>No Data Available</i>
<b>Specific Gravity</b>	0.8309 [Ref Std: WATER=1]
<b>pH</b>	<i>No Data Available</i>
<b>Melting point</b>	95 °C
<b>Solubility in Water</b>	Nil
<b>Evaporation rate</b>	1 [Ref Std: WATER=1]
<b>Volatile Organic Compounds</b>	281.01 g/l

Volatile Organic Compounds	2.35 lb/gal
Volatile Organic Compounds	33.67 %
Percent volatile	60 - 70 %
VOC Less H2O & Exempt Solvents	281.01 g/l
Viscosity	No Data Available

## SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Strong oxidizing agents; Sparks and/or flames

Hazardous Polymerization: Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

## SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.



## SECTION 14: TRANSPORT INFORMATION

**ID Number(s):**

60-4550-3115-7, 60-9800-4380-0

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - Yes    Pressure Hazard - No    Reactivity Hazard - No    Immediate Hazard - Yes    Delayed Hazard - No

### STATE REGULATIONS

Contact 3M for more information.

### CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

Contact 3M for more information.

### INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

**NFPA Hazard Classification**

Health: 2 Flammability: 2 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Revision Changes:**

Copyright was modified.

Section 14: ID Number Heading Template 1 was added.

Section 14: ID Number(s) Template 1 was added.

Section 2: Ingredient table was added.

Section 8: Exposure guidelines ingredient information was added.

Section 8: Exposure guidelines data source legend was added.

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3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.

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# Material Safety Data Sheet

## EZBOND ADHESIVE

*used as resin for warranty patches*

MSDS No. Not available.

### 1. Product and Company Identification

Product Trade Name	EZBOND ADHESIVE	Validation Date	16 October 2001
Synonyms	EZBOND ADHESIVE EZBOND ADHESIVE	Product Code	5787W00077
Chemical Family	Not available.	Internal Code	Not available.
Packaging	Not available.		
Product Type	Not available.		
Product Use	Not available.	Description	EZ BOND PUTTY
Manufactured/ Supplied	VALSPAR - GARDENA 210 E. ALONDRA BLVD. GARDENA CA 90248 Daytime Phone: 310-352-3087 Emergency Phone: 800-424-9300		

*5787W00077*

### 2. Composition and Information on Hazardous Ingredients

Ingredient Name	CAS #	% by Weight	Exposure Limits	Vapor Pressure	LEL-UEL
1) STYRENE MONOMER	100-42-5	20-30	<b>ACGIH (United States, 1994). Skin</b> TWA: 20 ppm <b>ACGIH (United States, 1994). Skin</b> STEL: 40 ppm <b>OSHA (United States, 1989).</b> TWA: 50 ppm <b>OSHA (United States, 1989).</b> STEL: 100 ppm <b>OSHA (United States, 1989).</b> CEIL: 200 ppm <b>NIOSH (United States, 1994).</b> TWA: 50 ppm <b>NIOSH (United States, 1994).</b> STEL: 100 ppm	0.6 kPa (4.5 mmHg) (@ 20°C)	0.9 %
2) HYDROXYLATED SILICON DIOXIDE	112926-00-8	8-13	<b>ACGIH (United States, 1994).</b> TWA: 10 mg/m <sup>3</sup> <b>OSHA (United States, 1989).</b> TWA: 6 mg/m <sup>3</sup>	Not available.	Not available.

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

### 3. Hazards Identification

Primary Hazards and Critical Effects : **WARNING!**  
 FLAMMABLE LIQUID AND VAPOR.  
 VAPOR MAY CAUSE FLASH FIRE.  
 MAY BE HARMFUL IF INHALED.  
 MAY CAUSE EYE AND SKIN IRRITATION.  
 POSSIBLE CANCER HAZARD  
 CONTAINS MATERIAL WHICH MAY CAUSE CANCER BASED ON ANIMAL DATA  
 Risk of cancer depends on duration and level of exposure. Keep away from heat, sparks and flame.  
 Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use

	only with adequate ventilation. Wash thoroughly after handling.
Physical/Chemical hazards	: Not applicable.
Human Health Hazards	: Harmful by inhalation. Irritating to eyes and skin. Possible risks of irreversible effects.
Environmental Hazards	: Not applicable.

## 4. First Aid Measures

Eye contact	: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.
Skin contact	: Wash with soap and water. Remove contaminated clothing and shoes. If irritation persists, seek medical attention.
Inhalation	: Remove to fresh air. If not breathing, administer artificial respiration and seek medical attention.
Ingestion	: Wash out mouth with water if person is conscious. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician. Seek immediate medical attention.

## 5. Fire-Fighting Measures

Extinguishing Media	: In case of fire, use water spray (fog), foam, dry chemical, or CO <sub>2</sub> . Use foam or all purpose dry chemicals to extinguish.
Fire-Fighting Procedures	: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Fire/Explosion Hazards	: Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous Decomposition Products	: These products are carbon oxides (CO, CO <sub>2</sub> ). Some metallic oxides.

## 6. Accidental Release Measures

Personal Precautions	: Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilled material.
Environmental Precautions and Clean-up Methods	: If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

**Note: See section 1 for emergency contact information and section 13 for waste disposal.**

## 7. Handling and Storage

Handling	: Risk of cancer depends on duration and level of exposure. Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
Storage	: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
Packaging Materials	: Use original container.

## 8. Exposure Controls and Personal Protection

Occupational Exposure Limits

## 1) STYRENE MONOMER

ACGIH (United States, 1994). Skin

TWA: 20 ppm

ACGIH (United States, 1994). Skin

STEL: 40 ppm

OSHA (United States, 1989).

TWA: 50 ppm

OSHA (United States, 1989).

STEL: 100 ppm

OSHA (United States, 1989).

CEIL: 200 ppm

NIOSH (United States, 1994).

TWA: 50 ppm

NIOSH (United States, 1994).

STEL: 100 ppm

## 2) HYDROXYLATED SILICON DIOXIDE

ACGIH (United States, 1994).

TWA: 10 mg/m<sup>3</sup>

OSHA (United States, 1989).

TWA: 6 mg/m<sup>3</sup>

**Engineering Controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**Monitoring Methods and References** : Not available.

**Personal Protective Equipment****Respiratory System**

: Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator. If necessary Be sure to use a MSHA/NIOSH approved respirator or equivalent.

**Skin and Body**

: Wear appropriate protective clothing to prevent skin contact.

**Hands**

: Use chemical resistant, impervious gloves. If necessary

**Eyes**

: Safety goggles are considered minimum protection.

## 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	: Liquid.
<b>Color</b>	: Not available.
<b>Odor</b>	: Not available.
<b>pH</b>	: Not available.
<b>Molecular Weight</b>	: Not applicable.
<b>Molecular Formula</b>	: Not applicable.
<b>Melting Point</b>	: May start to solidify at -30.6°C (-23.1°F) based on data for: STYRENE MONOMER.
<b>Boiling Point</b>	: The lowest known value is 145°C (293°F) (STYRENE MONOMER).
<b>Evaporation Rate</b>	: 0.5 (STYRENE MONOMER) compared to Butyl Acetate
<b>Volatility</b>	: Not available.
<b>Vapor Density</b>	: The highest known value is 4 (Air = 1) (STYRENE MONOMER).
<b>Vapor Pressure</b>	: The highest known value is 5 mmHg (@ 20°C) (STYRENE MONOMER).
<b>Density</b>	: The only known value is 0.91 g/cm <sup>3</sup> (STYRENE MONOMER).
<b>Specific Gravity</b>	: Weighted average: 0.91 (Water = 1)
<b>Solubility</b>	: Partially soluble in cold water.
<b>Partition Coefficient (LogKow)</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Auto-Ignition Temperature</b>	: The lowest known value is 490°C (914°F) (STYRENE MONOMER).
<b>Flash Point</b>	: The lowest known value is TCC/PM CLOSED CUP: 31°C (88°F). (Tagliabue.). (STYRENE MONOMER)
<b>Explosibility</b>	: Not available.
<b>Explosion Limits</b>	: The greatest known range is LOWER: 0.9% UPPER: 6.8% (STYRENE MONOMER)

## 10. Stability and Reactivity

- Stability : The product is stable.
- Conditions and Materials to Avoid : Slightly reactive to reactive with oxidizing agents, acids.
- Hazardous Decomposition Products : The products of degradation are less toxic than the product itself.
- Hazardous Polymerization : Yes.

## 11. Toxicological Information

### Toxicity Data

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
1) STYRENE MONOMER	LD50	2650 mg/kg	Oral	Rat
	LD50	316 mg/kg	Oral	Mouse
	LC50	12000 mg/m <sup>3</sup> (4 hours)	Inhalation	Rat

Routes of Entry : Dermal contact. Eye contact.

### Acute Effects

- Inhalation : Harmful by inhalation. Possible risks of irreversible effects.
- Ingestion : Practically non-toxic if swallowed.
- Skin Contact : Moderately irritating to the skin.
- Eye Contact : Moderately irritating to the eyes.

### Chronic Effects

- Adverse Effects : Not available.
- Target Organs : Not available.
- Carcinogenic Effects : Classified 2B (Possible for human.) by IARC [STYRENE MONOMER]. Classified A4 (Not classifiable for human or animal.) by ACGIH [STYRENE MONOMER].
- Mutagenic Effects : Not available.
- Developmental and Teratogenic Effects : Not available.
- Reproductive Effects : Not available.

Other Information : Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.  
Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

## 12. Ecological Information

### Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Our database contains no special consideration on the product			

- Environmental Hazards : No known significant effects or critical hazards.
- Environmental Fate : Not available.

## 13. Disposal Consideration

- Waste Classification : Not available.
- Waste Handling and Disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport Information

### United States

Shipping Description : Not available.  
 Packaging Instruction : Not available.  
 Special Provisions : Not available.  
 Remarks : Not available

### Canada

Shipping Description : Not available.  
 Regulated Limit : Not available.  
 Consumer Commodity : Not available.  
 Limited Quantity : Not available.  
 Special Provisions : Not available.  
 Remarks : Not available.

## 15. Regulatory Information

### EU Regulations

Hazard Symbol(s) : Xn  
 Risk Phrases : R20- Harmful by inhalation.  
 R36/38- Irritating to eyes and skin.  
 R40- Possible risks of irreversible effects.  
 Safety Phrases : S2- Keep out of the reach of children.  
 S36- Wear suitable protective clothing.  
 S46- If swallowed, seek medical advice immediately and show this container or label.  
 S64- If swallowed, rinse mouth with water (only if the person is conscious)

### US Regulations

Federal and State Regulations : California prop. 65. This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: COBALT  
 This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.:  
 STYRENE MONOMER 27.8898%  
 CERCLA: Hazardous substances.: STYRENE MONOMER: 1000 lbs. (453.6 kg);

### HMIS (U.S.A.)

Health	2
Flammability	3
Reactivity	2
Personal Protection	X

National Fire Protection Association (U.S.A.)

Health	2	Flammability	0
Reactivity	2	Specific Hazard	0

Consult your supervisor for special handling instructions.

### Canadian Regulations

WHMIS : CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).  
 Class D-1B: Material causing immediate and serious toxic effects (TOXIC).  
 Class D-2A: Material causing other toxic effects (VERY TOXIC).  
 Canadian NPRI : Canadian NPRI: STYRENE MONOMER 27.8898%  
 Provincial : No products were found.

## 16. Other Information

Remarks : Not available.  
 References : Not available.  
 Validated on 10/16/2001.  
 Version : 1.0  
 Date of Printing : 10/16/2001.

Date of Previous Issue : No Previous Validation.

✓ Indicates information that has changed from previously issued version.

Notice to Reader

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# CERTIFIED PRODUCT DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Material Identification

**Product ID:** 5788C90007  
**Product Name:** SURFACING AGENT  
**Product Use:** Coatings product.  
**Print date:** 12/Feb/2008  
**Revision Date:** 22/Apr/2004

### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. AS SUPPLIED (AS FORMULATED) PRODUCT PROPERTIES

**VOC % by Weight** 95  
**VOC grams/litre** 853.35  
**Percent VHAP by Weight:** 95  
**LBs VHAP/GAL Solid:** 144.79  
**LBs VHAP/LB Solid:** 19  
**Density (lbs per US gallon):** 7.5

Common Name CAS-No.	Approx. Weight %	HAP Hazardous Air Contaminants CAA 1990
STYRENE MONOMER 100% VOC 100-42-5	95	[present]

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# The Valspar Corporation

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

**Product ID:** 5788C90007  
**Product Name:** SURFACING AGENT  
**Product Use:** Coatings product.  
**Print date:** 12/Feb/2008  
**Revision Date:** 22/Apr/2004

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
STYRENE MONOMER 100% VOC 100-42-5	90 - 95	Styrene

If this section is blank there are no hazardous components per OSHA guidelines.

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Emergency Overview:

This section not in use.

**This product contains ingredients that may contribute to the following potential acute health effects:**

#### Inhalation Effects:

May cause irritation of the respiratory tract. May irritate mouth, nose, and throat.

#### Eye Contact:

Corneal Injury/eye damage.

#### Skin Contact:

May cause an allergic skin reaction. May cause moderate skin irritation.

#### Acute Ingestion:

None known

#### Other Effects:

May cause central nervous system depression.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

May cause eye damage and pain. May cause redness and blistering of skin. Contains ingredients which have been shown in laboratory animals to cause liver and kidney damage. Possible sensitization.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

#### **4. FIRST AID MEASURES**

**Inhalation:**

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

**Eye Contact:**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes.

**Ingestion:**

If swallowed, get medical attention immediately.

**Medical conditions aggravated by exposure:** Any respiratory or skin condition.

#### **5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):	88° F ( 31° C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	6 %
Autoignition temperature:	Not available. ° F ( ° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Use water spray to cool nearby containers and structures exposed to fire.

#### **6. ACCIDENTAL RELEASE MEASURES**

**Action to be taken if material is released or spilled:**

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid all personal contact.

#### **7. HANDLING AND STORAGE**

**Precautions to be taken in handling and storage:**

Keep away from heat, sparks, and flames. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. Do not store above 85 degrees F (29.4 degrees C). Keep drum out of sun and away from heat. May self-polymerize if uninhibited, heated or involved in a fire. Self-polymerization will be accompanied by evolution of heat, which may cause release of styrene vapors forming flammable mixtures with air.

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS****Personal Protective Equipment****Eye and face protection:**

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

**Skin protection:**

Gloves: Neoprene or other nonporous. Neoprene or plastic apron and protective clothing covering exposed skin areas.

**Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

**Ventilation**

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	90 - 95	100 ppm	200 ppm	

**ACGIH Threshold Limit Value (TLV's)**

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	90 - 95	20 ppm	40 ppm		

If this section is blank, no information is available.

**9. PHYSICAL PROPERTIES**

Odor:

Normal for this product type.

Physical State:

Liquid

## 9. PHYSICAL PROPERTIES

pH:	Not determined.
Vapor pressure:	5 mmHG @ 68° F ( 20° C)
Vapor density (air = 1.0):	5
Boiling point:	293° F ( 145° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	7.5
Specific Gravity:	.9
Evaporation rate (butyl acetate = 1.0):	.01

## 10. STABILITY AND REACTIVITY

Stability:	This product contains an inhibitor and is stable under normal conditions. Please see Section 7 for proper storage and handling information.
Conditions to Avoid:	Heat. Heat or contact with peroxides or other catalysts.
Incompatibility:	Strong oxidizers. Acids or alkalis.
Hazardous Polymerization:	Product may polymerize when exposed to heat.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Aldehydes.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

**Mutagens:**  
None known.

**Teratogens:**  
None known.

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
STYRENE MONOMER 100% VOC 100-42-5	90 - 95			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)

## 12. ECOLOGICAL DATA

Not available at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

**U.S. Department of Transportation**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

**U.S. Highway & Rail Shipments**

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

**International Air Transport Association:**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

**International Maritime Organization:**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 Non-Bulk UN ID Number: UN1263  
 Packing Group: III

**15. REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS:**

Common Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
STYRENE MONOMER 100% VOC 100-42-5	90 - 95		form R reporting required for 0.1% de minimis concentration	1000

**SARA 311/312 Hazard Class:**

Acute: Yes  
 Chronic: Yes  
 Flammability: Yes  
 Reactivity: No  
 Sudden Pressure: No

**U.S. STATE REGULATIONS:****Pennsylvania Right To Know:**

STYRENE MONOMER 100% VOC 100-42-5

**Additional Non-Hazardous Materials**

PROPRIETARY ADDITIVE Trade Secret

**Rule 66 status of product**

Not photochemically reactive.

**INTERNATIONAL REGULATIONS - Chemical Inventories****TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

### HMIS Codes

Health:	3
Flammability:	3
Reactivity:	2
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pinsky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

### Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

# The Valspar Corporation

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

**Product ID:** 5788C90008  
**Product Name:** 7-3984 PATCH REDUCER  
**Product Use:** Paint product.  
**Date Published:** 2005/03/01  
**Revision Date:** 2005/03/01

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS #	Approx Wt%	Chemical name
STYRENE MONOMER 100% VOC 100-42-5	60 - 65	Styrene

If this section is blank there are no hazardous components per OSHA guidelines.

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Emergency Overview:

This section not in use.

**This product contains ingredients that may contribute to the following potential acute health effects:**

#### Inhalation Effects:

May cause irritation of the respiratory tract. May irritate mouth, nose, and throat.

#### Eye Contact:

Corneal Injury/eye damage.

#### Skin Contact:

**Product ID:** 5788C90008



May cause an allergic skin reaction. May cause moderate skin irritation.

**Acute Ingestion:**

None known

**Other Effects:**

May cause central nervous system depression.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

May cause eye damage and pain. May cause redness and blistering of skin. Contains ingredients which have been shown in laboratory animals to cause liver and kidney damage. Possible sensitization.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

## 4. FIRST AID MEASURES

**Inhalation:**

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

**Eye Contact:**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes.

**Ingestion:**

If swallowed, get medical attention immediately.

**Medical conditions aggravated by exposure:** Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	88° F ( 31° C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	6 %
Autoignition temperature:	Not available.° F ( ° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Use water spray to cool nearby containers and structures exposed to fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Action to be taken if material is released or spilled:

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid all personal contact.

## 7. HANDLING AND STORAGE

### Precautions to be taken in handling and storage:

Keep away from heat, sparks, and flames. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. Do not store above 85 degrees F (29.4 degrees C). Keep drum out of sun and away from heat.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

### Personal Protective Equipment

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Gloves: Neoprene or other nonporous. Neoprene or plastic apron and protective clothing covering exposed skin areas.

#### Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

Common Name CAS #	Approx Wt%	TWA (final)	Ceilings limits (final)	Skin designations
STYRENE MONOMER VOC 100-42-5	100% 60 - 65	100 ppm	200 ppm	

#### ACGIH Threshold Limit Value (TLV's)

Common Name CAS #	Approx Wt%	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	60 - 65	20 ppm	40 ppm		

If this section is blank, no information is available.

## 9. PHYSICAL PROPERTIES

Odor: Normal for this product type.  
Physical State: Liquid  
pH: Not determined.  
Vapor pressure: 5 mmHG @ 68° F ( 20° C)  
Vapor density (air = 1.0): 3.6  
Boiling point: 293° F ( 145° C)  
Solubility in water: Insoluble.  
Coefficient of water/oil distribution: Not determined.  
Density (lbs per US gallon): 8.16  
Specific gravity (water = 1) .98  
Evaporation rate (butyl acetate = 1.0): Not determined.

## 10. STABILITY AND REACTIVITY

Stability: This product contains an inhibitor and is stable under normal conditions. Please see Section 7 for proper storage and handling information.  
Conditions to Avoid: Heat. Heat or contact with peroxides or other catalysts.  
Incompatibility: Strong oxidizers. Acids or alkalis. Acids.  
Hazardous Polymerization: Product may polymerize when exposed to heat.  
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

**Sensitivity to static discharge:** Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

**Mutagens:**

**Teratogens:**

**Carcinogens:**

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic.

Common Name CAS #	Approx Wt%	IARC Group 1 - Human Evidence	IARC Group 2A - limited human data	IARC Group 2b - sufficient animal data

STYRENE MONOMER 100% VOC 100-42-5	60 - 65			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)
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If this section is blank, no information is available.

## 12. ECOLOGICAL DATA

Not available at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### 49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

### International Air Transport Association:

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### International Maritime Organization:

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Common Name CAS #	Approx Wt%	SARA 302	SARA 313	CERCLA RQ IN LBS.
STYRENE MONOMER 100% VOC 100-42-5	60 - 65		form R reporting required for 0.1% de minimis concentration	100 LBS 1000 LBS

**SARA 311/312 Hazard Class:**

Acute: Yes  
 Chronic: Yes  
 Flammability: Yes  
 Reactivity: No  
 Sudden Pressure: No

**U.S. STATE REGULATIONS:****Pennsylvania Right To Know:**

STYRENE MONOMER 100% VOC 100-42-5

**Additional Non-Hazardous Materials**

SUPPLIER TRADE SECRET Trade Secret

**Rule 66 status of product** Not photochemically reactive.

**INTERNATIONAL REGULATIONS - Chemical Inventories**

**TSCA Inventory:** All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:** All components of this product are listed on the Domestic Substances List.

**16. OTHER INFORMATION****HMIS Codes**

Health: 3  
 Flammability: 3  
 Reactivity: 2  
 PPE: X - See Section 8 for Personal Protective Equipment (PPE).

**Abbreviations:**

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

**Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information.

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# CERTIFIED PRODUCT DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Material Identification

**Product ID:** 5788C90279  
**Product Name:** PATCH REDUCER FOR LV  
**Product Use:** Paint product.  
**Print date:** 13/Feb/2008  
**Revision Date:** 30/Oct/2006

### Company Identification

The Valspar Corporation  
 210 East Alondra Blvd.  
 Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. AS SUPPLIED (AS FORMULATED) PRODUCT PROPERTIES

VOC % by Weight	56.01
VOC grams/litre	559.193
Percent VHAP by Weight:	55.84
LBs VHAP/GAL Solid:	12.34
LBs VHAP/LB Solid:	1.27
Density (lbs per US gallon):	8.33

Common Name CAS-No.	Approx. Weight %	HAP Hazardous Air Contaminants CAA 1990
STYRENE MONOMER 100% VOC 100-42-5	55.8404	[present]

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# The Valspar Corporation

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

**Product ID:** 5788C90279  
**Product Name:** PATCH REDUCER FOR LV  
**Product Use:** Paint product.  
**Print date:** 13/Feb/2008  
**Revision Date:** 30/Oct/2006

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
STYRENE MONOMER 100% VOC 100-42-5	55 - 60	Styrene

If this section is blank there are no hazardous components per OSHA guidelines.

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Emergency Overview:

This section not in use.

**This product contains ingredients that may contribute to the following potential acute health effects:**

#### Inhalation Effects:

May cause irritation of the respiratory tract. May irritate mouth, nose, and throat.

#### Eye Contact:

Corneal Injury/eye damage.

#### Skin Contact:

May cause an allergic skin reaction. May cause moderate skin irritation.

#### Acute Ingestion:

None known

#### Other Effects:

May cause central nervous system depression.



**This product contains ingredients that may contribute to the following potential chronic health effects:**

May cause eye damage and pain. May cause redness and blistering of skin. Contains ingredients which have been shown in laboratory animals to cause liver and kidney damage. Possible sensitization.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

#### **4. FIRST AID MEASURES**

**Inhalation:**

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

**Eye Contact:**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes.

**Ingestion:**

If swallowed, get medical attention immediately.

**Medical conditions aggravated by exposure:** Any respiratory or skin condition.

#### **5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):	88° F ( 31° C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	6 %
Autoignition temperature:	Not available. ° F ( ° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Use water spray to cool nearby containers and structures exposed to fire.

#### **6. ACCIDENTAL RELEASE MEASURES**

**Action to be taken if material is released or spilled:**

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid all personal contact.

#### **7. HANDLING AND STORAGE**

**Precautions to be taken in handling and storage:**

Keep away from heat, sparks, and flames. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. Do not store above 85 degrees F (29.4 degrees C). Keep drum out of sun and away from heat. May self-polymerize if uninhibited, heated or involved in a fire. Self-polymerization will be accompanied by evolution of heat, which may cause release of styrene vapors forming flammable mixtures with air.

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS****Personal Protective Equipment****Eye and face protection:**

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

**Skin protection:**

Gloves: Neoprene or other nonporous. Neoprene or plastic apron and protective clothing covering exposed skin areas.

**Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

**Ventilation**

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	55 - 60	100 ppm	200 ppm	

**ACGIH Threshold Limit Value (TLV's)**

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	55 - 60	20 ppm	40 ppm		

If this section is blank, no information is available.

**9. PHYSICAL PROPERTIES**

Odor:

Normal for this product type.

Physical State:

Liquid

## 9. PHYSICAL PROPERTIES

pH:	Not determined.
Vapor pressure:	5 mmHG @ 68° F ( 20° C)
Vapor density (air = 1.0):	5
Boiling point:	293° F ( 145° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	8.33
Specific Gravity:	1
Evaporation rate (butyl acetate = 1.0):	.01

## 10. STABILITY AND REACTIVITY

Stability:	This product contains an inhibitor and is stable under normal conditions. Please see Section 7 for proper storage and handling information.
Conditions to Avoid:	Heat. Heat or contact with peroxides or other catalysts.
Incompatibility:	Strong oxidizers. Acids or alkalies. Acids.
Hazardous Polymerization:	Product may polymerize when exposed to heat.
Hazardous Decomposition Products:	Chlorine.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

**Mutagens:**  
None known.

**Teratogens:**  
None known.

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
STYRENE MONOMER 100% VOC 100-42-5	55 - 60			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)

## 12. ECOLOGICAL DATA

Not available at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

**U.S. Department of Transportation**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

**U.S. Highway & Rail Shipments**

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

**International Air Transport Association:**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

**International Maritime Organization:**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 Non-Bulk UN ID Number: UN1263  
 Packing Group: III

**15. REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS:**

Common Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
STYRENE MONOMER 100% VOC 100-42-5	55 - 60		form R reporting required for 0.1% de minimis concentration	1000

**SARA 311/312 Hazard Class:**

Acute: Yes  
 Chronic: Yes  
 Flammability: Yes  
 Reactivity: No  
 Sudden Pressure: No

**U.S. STATE REGULATIONS:****Pennsylvania Right To Know:**

STYRENE MONOMER 100% VOC 100-42-5

**Additional Non-Hazardous Materials**

SUPPLIER TRADE SECRET Trade Secret

**Rule 66 status of product**

Not photochemically reactive.

**INTERNATIONAL REGULATIONS - Chemical Inventories****TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

### HMIS Codes

Health:	3
Flammability:	3
Reactivity:	2
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

### Disclaimer:

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# CERTIFIED PRODUCT DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

**Product ID:** 5799A90073  
**Product Name:** AZTEC LE BLUE  
**Product Use:** Paint product.  
**Print date:** 13/Jul/2008  
**Revision Date:** 13/Jun/2008

### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248

**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. AS SUPPLIED (AS FORMULATED) PRODUCT PROPERTIES

**VOC % by Weight** 32.68  
**VOC grams/litre** 407.885  
**Percent VHAP by Weight:** 31.74  
**LBs VHAP/GAL Solid:** 6.03  
**LBs VHAP/LB Solid:** .47  
**Density (lbs per US gallon):** 10.41

Ingredient Name CAS-No.	Approx. Weight %	HAP Hazardous Air Contaminants CAA 1990
STYRENE MONOMER (VOC) 100-42-5	27.0955	PRESENT
METHYL METHACRYLATE 80-62-6	4.5774	PRESENT

31.7  
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## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

**Product ID:** 5799A90073  
**Product Name:** AZTEC LE BLUE  
**Product Use:** Paint product.  
**Print date:** 13/Jul/2008  
**Revision Date:** 13/Jun/2008

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248

**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Eye Contact:

Moderate eye irritation  
Risk of serious damage to eyes.

#### Skin Contact:

Causes skin irritation.  
May cause sensitization by skin contact.

#### Ingestion:

Harmful if swallowed.

#### Inhalation:

Causes respiratory tract irritation.  
Harmful by inhalation.

#### Target Organ and Other Health Effects:

Causes headache, drowsiness or other effects to the central nervous system.  
Kidney injury may occur.  
Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Possible sensitization.

**Carcinogens:**

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

**3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
STYRENE MONOMER (VOC) 100-42-5	25 - 30	Styrene
TALC 14807-96-6	5 - 10	TALC (MG3H2(SI03)4)
METHYL METHACRYLATE 80-62-6	1 - 5	2-Propenoic acid, 2-methyl-, methyl ester
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
TITANIUM DIOXIDE 13463-67-7	.1 - 1	Titanium dioxide

If this section is blank there are no hazardous components per OSHA guidelines.

**4. FIRST AID MEASURES****Eye Contact:**

Remove any contact lenses and open eyes wide apart. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

**Ingestion:**

Rinse mouth with water. Give one or two glasses of water. Never give anything by mouth to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention.

**Inhalation:**

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.

**Medical conditions aggravated by exposure:**

Any respiratory or skin condition.

**5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):	88°F (31°C)
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -°F (°C)
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7. See Section 10.
Hazardous combustion products:	

**Unusual fire and explosion hazards:**

None known.



**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Keep containers and surroundings cool with water spray.

**6. ACCIDENTAL RELEASE MEASURES****Action to be taken if material is released or spilled:**

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid all personal contact.

**7. HANDLING AND STORAGE****Precautions to be taken in handling and storage:**

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. To maintain product quality, do not store in heat or direct sunlight. Do not store above 85 degrees F (29.4 degrees C).

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS****Personal Protective Equipment****Eye and face protection:**

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

**Skin protection:**

Gloves: Neoprene or other nonporous.

**Other Personal Protection Data:**

Ensure that eyewash stations and safety showers are close to the workstation location. To prevent skin contact wear protective clothing covering all exposed areas. Chemical resistant apron

**Respiratory protection:**

Wear appropriate, properly fitted respirator (NIOSH approved) during spray application or in other situation where mists may be generated unless air monitoring vapor mist levels are below applicable limits-- where applicable limits have been established. When respirators are used, follow respirator manufacturers directions for use.

**Ventilation**

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Use explosion-proof electrical/ventilating/lighting/equipment.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Cellings limits (final)	Skin designations
----------------------------	---------------------	-------------	-------------------------	-------------------

STYRENE MONOMER (VOC) 100-42-5	25 - 30	100 ppm	200 ppm	
TALC 14807-96-6	5 - 10	Respirable. Listed. Total dust. Listed.		
METHYL METHACRYLATE 80-62-6	1 - 5	410 mg/m <sup>3</sup> 100 ppm		
PROPRIETARY INERT	1 - 5	5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust. Respirable fraction. Listed. Total dust. Listed.		
TITANIUM DIOXIDE 13463-67-7	.1 - 1	15 mg/m <sup>3</sup> Total dust.		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER (VOC) 100-42-5	25 - 30	20 ppm	40 ppm		
TALC 14807-96-6	5 - 10	2 mg/m <sup>3</sup> Respirable fraction. The value is for particulate matter containing no asbestos and <1% crystalline silica.			
METHYL METHACRYLATE 80-62-6	1 - 5	50 ppm	100 ppm		
PROPRIETARY INERT	1 - 5	10 mg/m <sup>3</sup>			
TITANIUM DIOXIDE 13463-67-7	.1 - 1	10 mg/m <sup>3</sup>			

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
Vapor pressure:	35.3383459 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	3.6
Boiling point:	not determined -°F (not determined°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	10.41
Specific Gravity:	1.25
Evaporation rate (butyl acetate = 1.0):	3.1
Flash point (Fahrenheit):	88°F (31°C)
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -°F (°C)

## 10. STABILITY AND REACTIVITY

Stability:

Conditions to Avoid:

Incompatibility:

Hazardous Polymerization:

Hazardous Decomposition Products:

Stable if protected from heat and exposure to air.

Heat. Peroxides

Strong oxidizing agents

Product may polymerize when exposed to heat.

Silicon dioxide. Carbon monoxide and carbon dioxide.

Metal oxide fumes. Nitrogen compounds.

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
STYRENE MONOMER (VOC) 100-42-5	25 - 30	Inhalation LC50 Rat : 12 gm/m <sup>3</sup> /4H Inhalation LC50 Mouse : 9500 mg/m <sup>3</sup> /4H Oral LD50 Rat : 2650 mg/kg Oral LD50 Mouse : 316 mg/kg
METHYL METHACRYLATE 80-62-6	1 - 5	Inhalation LC50 Rat : 78000 mg/m <sup>3</sup> /4H Inhalation LC50 Mouse : 18500 mg/m <sup>3</sup> /2H Oral LD50 Rat : 7872 mg/kg Oral LD50 Mouse : 3625 mg/kg Dermal LD50 Rabbit : >5 gm/kg

**Mutagens/Teratogens/Carcinogens:**

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
STYRENE MONOMER (VOC) 100-42-5	25 - 30			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)
TITANIUM DIOXIDE 13463-67-7	.1 - 1			2B Possible Carcinogen

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
TALC 14807-96-6	5 - 10			male rat-some evidence; female rat-clear evidence; male mice-no evidence; female mice- no evidence

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Considerations

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### Reportable Quantity Description:

### International Air Transport Association (IATA):

Proper Shipping Name: Paint  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### International Maritime Organization (IMO):

Proper Shipping Name: PAINT  
Hazard Class: 3  
Non-Bulk UN ID Number: UN1263  
Packing Group: III

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
STYRENE MONOMER (VOC) 100-42-5	25 - 30		form R reporting required for 0.1% de minimis concentration	1000
METHYL METHACRYLATE 80-62-6	1 - 5		form R reporting required for 1.0% de minimis concentration	1000

### SARA 311/312 Hazard Class:

Acute: yes  
Chronic: yes  
Flammability: yes  
Reactivity: no

Sudden Pressure: no

## U.S. STATE REGULATIONS:

### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

### Pennsylvania Right To Know:

STYRENE MONOMER (VOC)	100-42-5
METHYL METHACRYLATE	80-62-6
PROPRIETARY INERT	Trade Secret
TALC	14807-96-6

### Additional Non-Hazardous Materials

PROPRIETARY INERT	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

### Rule 66 status of product

Not photochemically reactive.

## INTERNATIONAL REGULATIONS - Chemical Inventories

### US TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

### HMIS Codes

Health:	2*
Flammability:	3
Reactivity:	2
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

### Disclaimer:

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**Preparation Information:**

Prepared By:

Regulatory Affairs Department

Print date:

13/Jul/2008

Revision Date:

13/Jun/2008

# CERTIFIED PRODUCT DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Material Identification

**Product ID:** 5799B90020  
**Product Name:** AZTEC LE BLACK  
**Product Use:** Paint product.  
**Print date:** 08/May/2008  
**Revision Date:** 18/Mar/2008

### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. AS SUPPLIED (AS FORMULATED) PRODUCT PROPERTIES

**VOC % by Weight** 32.54  
**VOC grams/litre** 401.99  
**Percent VHAP by Weight:** 31.62  
**LBs VHAP/GAL Solid:** 5.9  
**LBs VHAP/LB Solid:** .47  
**Density (lbs per US gallon):** 10.3

Common Name CAS-No.	Approx. Weight %	HAP Hazardous Air Contaminants CAA 1990
STYRENE MONOMER 100% VOC 100-42-5	30.3145	[present]
METHYL METHACRYLATE, 100% VOC 80-62-6	1.2472	[present]

31.6  
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# The Valspar Corporation

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

**Product ID:** 5799B90020  
**Product Name:** AZTEC LE BLACK  
**Product Use:** Paint product.  
**Print date:** 08/May/2008  
**Revision Date:** 18/Mar/2008

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
STYRENE MONOMER 100% VOC 100-42-5	30 - 35	Styrene
TALC 14807-96-6	5 - 10	TALC (MG3H2(SI03)4)
METHYL METHACRYLATE, 100% VOC 80-62-6	1 - 5	2-Propenoic acid, 2-methyl-, methyl ester
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
CARBON BLACK 1333-86-4	1 - 1	CARBON BLACK

If this section is blank there are no hazardous components per OSHA guidelines.

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Emergency Overview:

This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

#### Inhalation Effects:

Overexposure to dust may cause lung damage.



**Eye Contact:**

Corneal Injury/eye damage.

**Skin Contact:**

May cause an allergic skin reaction. May cause moderate skin irritation.

**Acute Ingestion:**

Irritation of gastrointestinal tract.

**Other Effects:**

May cause central nervous system depression.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

Prolonged or repeated exposure may cause lung damage. May cause eye damage and pain. May cause an allergic skin reaction. Contains ingredients which have been shown in laboratory animals to cause liver and kidney damage. Possible sensitization. Possible cancer hazard. Contains ingredients which may cause cancer based on animal data. Risk of cancer depends on duration and level of exposure.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

## 4. FIRST AID MEASURES

**Inhalation:**

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention. If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Move person to fresh air.

**Eye Contact:**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes. Remove contaminated clothing and laundry before reuse. Wash with soap and water.

**Ingestion:**

If swallowed, get medical attention immediately. Not expected to be toxic by ingestion.

**Medical conditions aggravated by exposure:** Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):

88° F ( 31° C) TCC/PM

Lower explosive limit:

1 %

Upper explosive limit:

6 %

Autoignition temperature:

Not available. ° F ( ° C)

Sensitivity to impact:

No.

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

Hazardous combustion products:

See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Use water spray to cool nearby containers and structures exposed to fire.

**6. ACCIDENTAL RELEASE MEASURES****Action to be taken if material is released or spilled:**

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid all personal contact.

**7. HANDLING AND STORAGE****Precautions to be taken in handling and storage:**

Keep away from heat, sparks, and flames. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. Do not store above 85 degrees F (29.4 degrees C). Keep drum out of sun and away from heat. May self-polymerize if uninhibited, heated or involved in a fire. Self-polymerization will be accompanied by evolution of heat, which may cause release of styrene vapors forming flammable mixtures with air.

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS****Personal Protective Equipment****Eye and face protection:**

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

**Skin protection:**

Gloves: Neoprene or other nonporous. Neoprene or plastic apron and protective clothing covering exposed skin areas.

**Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

**Ventilation**

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	30 - 35	100 ppm	200 ppm	
TALC 14807-96-6	5 - 10	Respirable. Listed. Total dust. Listed.		
METHYL METHACRYLATE, 100% VOC 80-62-6	1 - 5	410 mg/m <sup>3</sup> 100 ppm		

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
PROPRIETARY INERT	1 - 5	5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust. Respirable fraction. Listed. Total dust. Listed.		
CARBON BLACK 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup>		

#### ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	30 - 35	20 ppm	40 ppm		
TALC 14807-96-6	5 - 10	2 mg/m <sup>3</sup> Respirable fraction. The value is for particulate matter containing no asbestos and <1% crystalline silica.			
METHYL METHACRYLATE, 100% VOC 80-62-6	1 - 5	50 ppm	100 ppm		
PROPRIETARY INERT	1 - 5	10 mg/m <sup>3</sup>			
CARBON BLACK 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup>			

If this section is blank, no information is available.

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	29 mmHG @ 68° F ( 20° C)
Vapor density (air = 1.0):	3.6
Boiling point:	214° F ( 101° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	10.3
Specific Gravity:	1.23
Evaporation rate (butyl acetate = 1.0):	3

## 10. STABILITY AND REACTIVITY

Stability:	This product contains an inhibitor and is stable under normal conditions. Please see Section 7 for proper storage and handling information.
Conditions to Avoid:	Heat. Heat or contact with peroxides or other catalysts.
Incompatibility:	Strong oxidizers. Acids or alkalis.

## 10. STABILITY AND REACTIVITY

Hazardous Polymerization:

Hazardous Decomposition Products:

Product may polymerize when exposed to heat.

Carbon monoxide and carbon dioxide.

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

**Mutagens:**

None known.

**Teratogens:**

None known.

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
STYRENE MONOMER 100% VOC 100-42-5	30 - 35			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)
CARBON BLACK 1333-86-4	.1 - 1			Monograph 65, 1996

Common Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
TALC 14807-96-6	5 - 10			male rat-some evidence; female rat-clear evidence; male mice-no evidence; female mice- no evidence

## 12. ECOLOGICAL DATA

Not available at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

**U.S. Department of Transportation**

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

## 14. TRANSPORTATION INFORMATION

### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### International Air Transport Association:

Proper Shipping Name: Paint  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

### International Maritime Organization:

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 Non-Bulk UN ID Number: UN1263  
 Packing Group: III

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Common Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
STYRENE MONOMER 100% VOC 100-42-5	30 - 35		form R reporting required for 0.1% de minimis concentration	1000
METHYL METHACRYLATE, 100% VOC 80-62-6	1 - 5		form R reporting required for 1.0% de minimis concentration	1000

### SARA 311/312 Hazard Class:

Acute: Yes  
 Chronic: Yes  
 Flammability: Yes  
 Reactivity: No  
 Sudden Pressure: No

### U.S. STATE REGULATIONS:

#### Pennsylvania Right To Know:

PROPRIETARY INERT	Trade Secret
STYRENE MONOMER 100% VOC	100-42-5
TALC	14807-96-6
METHYL METHACRYLATE, 100% VOC	80-62-6

#### Additional Non-Hazardous Materials

SUPPLIER TRADE SECRET	Trade Secret
SUPPLIER TRADE SECRET	Trade Secret
PROPRIETARY INERT	Trade Secret
SUPPLIER TRADE SECRET	Trade Secret

#### Rule 66 status of product

Not photochemically reactive.

### INTERNATIONAL REGULATIONS - Chemical Inventories

**TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

**16. OTHER INFORMATION**

**HMIS Codes**

**Health:** 3

**Flammability:** 3

**Reactivity:** 2

**PPE:** X - See Section 8 for Personal Protective Equipment (PPE).

**Abbreviations:**

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

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# CERTIFIED PRODUCT DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

**Product ID:** 5799E90056  
**Product Name:** AZTEC LE GRAY  
**Product Use:** Paint product.  
**Print date:** 13/Jul/2008  
**Revision Date:** 17/Jun/2008

### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248

**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. AS SUPPLIED (AS FORMULATED) PRODUCT PROPERTIES

VOC % by Weight 32.49  
VOC grams/litre 408.774  
Percent VHAP by Weight: 31.61  
LBs VHAP/GAL Solid: 6.06  
LBs VHAP/LB Solid: .47  
Density (lbs per US gallon): 10.49

Ingredient Name CAS-No.	Approx. Weight %	HAP Hazardous Air Contaminants CAA 1990
STYRENE MONOMER (VOC) 100-42-5	26.9659	PRESENT
METHYL METHACRYLATE 80-62-6	4.5774	PRESENT
C.I. PIGMENT BLACK 7 1333-86-4	0.2308	PRESENT

31154

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## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

**Product ID:** 5799E90056  
**Product Name:** AZTEC LE GRAY  
**Product Use:** Paint product.  
**Print date:** 13/Jul/2008  
**Revision Date:** 17/Jun/2008

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248

**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Eye Contact:

Moderate eye irritation  
Risk of serious damage to eyes.

#### Skin Contact:

Causes skin irritation.  
May cause sensitization by skin contact.

#### Ingestion:

Harmful if swallowed.

#### Inhalation:

Causes respiratory tract irritation.  
Harmful by inhalation.

#### Target Organ and Other Health Effects:

Causes headache, drowsiness or other effects to the central nervous system.  
Kidney injury may occur.  
Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Possible sensitization.



**Carcinogens:**

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

**3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
STYRENE MONOMER (VOC) 100-42-5	25 - 30	Styrene
TALC 14807-96-6	5 - 10	TALC (MG3H2(SI03)4)
METHYL METHACRYLATE 80-62-6	1 - 5	2-Propenoic acid, 2-methyl-, methyl ester
TITANIUM DIOXIDE 13463-67-7	1 - 5	Titanium dioxide
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	Carbon black

If this section is blank there are no hazardous components per OSHA guidelines.

**4. FIRST AID MEASURES****Eye Contact:**

Remove any contact lenses and open eyes wide apart. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

**Ingestion:**

Rinse mouth with water. Give one or two glasses of water. Never give anything by mouth to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention.

**Inhalation:**

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.

**Medical conditions aggravated by exposure:**

Any respiratory or skin condition.

**5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):	88°F (31°C)
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -°F (°C)
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7. See Section 10.
Hazardous combustion products:	

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Keep containers and surroundings cool with water spray.

**6. ACCIDENTAL RELEASE MEASURES**

**Action to be taken if material is released or spilled:**

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid all personal contact.

**7. HANDLING AND STORAGE**

**Precautions to be taken in handling and storage:**

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. To maintain product quality, do not store in heat or direct sunlight. Do not store above 85 degrees F (29.4 degrees C).

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS**

**Personal Protective Equipment**

**Eye and face protection:**

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

**Skin protection:**

Gloves: Neoprene or other nonporous.

**Other Personal Protection Data:**

Ensure that eyewash stations and safety showers are close to the workstation location. To prevent skin contact wear protective clothing covering all exposed areas. Chemical resistant apron

**Respiratory protection:**

Wear appropriate, properly fitted respirator (NIOSH approved) during spray application or in other situation where mists may be generated unless air monitoring vapor mist levels are below applicable limits-- where applicable limits have been established. When respirators are used, follow respirator manufacturers directions for use.

**Ventilation**

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Use explosion-proof electrical/ventilating/lighting/equipment.

**Exposure Guidelines**

**OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
----------------------------	---------------------	-------------	-------------------------	-------------------

STYRENE MONOMER (VOC) 100-42-5	25 - 30	100 ppm	200 ppm	
TALC 14807-96-6	5 - 10	Respirable. Listed. Total dust. Listed.		
METHYL METHACRYLATE 80-62-6	1 - 5	410 mg/m <sup>3</sup> 100 ppm		
TITANIUM DIOXIDE 13463-67-7	1 - 5	15 mg/m <sup>3</sup> Total dust.		
PROPRIETARY INERT	1 - 5	5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust. Respirable fraction. Listed. Total dust. Listed.		
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup>		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER (VOC) 100-42-5	25 - 30	20 ppm	40 ppm		
TALC 14807-96-6	5 - 10	2 mg/m <sup>3</sup> Respirable fraction. The value is for particulate matter containing no asbestos and <1% crystalline silica.			
METHYL METHACRYLATE 80-62-6	1 - 5	50 ppm	100 ppm		
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 mg/m <sup>3</sup>			
PROPRIETARY INERT	1 - 5	10 mg/m <sup>3</sup>			
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup>			

## 9. PHYSICAL PROPERTIES

Odor:

Normal for this product type.  
liquid

Physical State:

Vapor pressure:

35.3383459 mmHg @ 68°F (20°C)

Vapor density (air = 1.0):

3.6

Boiling point:

not determined -°F (not determined°C)

Solubility in water:

not determined

Coefficient of water/oil distribution:

not determined

Density (lbs per US gallon):

10.49

Specific Gravity:

1.26

Evaporation rate (butyl acetate = 1.0):

3.1

Flash point (Fahrenheit):

88°F (31°C)

## 9. PHYSICAL PROPERTIES

Lower explosive limit: 1 %  
 Upper explosive limit: 13 %  
 Autoignition temperature: not determined -°F (°C)

## 10. STABILITY AND REACTIVITY

Stability: Stable if protected from heat and exposure to air.  
 Conditions to Avoid: Heat. Peroxides  
 Incompatibility: Strong oxidizing agents  
 Hazardous Polymerization: Product may polymerize when exposed to heat.  
 Hazardous Decomposition Products: Silicon dioxide. Carbon monoxide and carbon dioxide.  
 Metal oxide fumes. Nitrogen compounds.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
STYRENE MONOMER (VOC) 100-42-5	25 - 30	Inhalation LC50 Rat : 12 gm/m <sup>3</sup> /4H Inhalation LC50 Mouse : 9500 mg/m <sup>3</sup> /4H Oral LD50 Rat : 2650 mg/kg Oral LD50 Mouse : 316 mg/kg
METHYL METHACRYLATE 80-62-6	1 - 5	Inhalation LC50 Rat : 78000 mg/m <sup>3</sup> /4H Inhalation LC50 Mouse : 18500 mg/m <sup>3</sup> /2H Oral LD50 Rat : 7872 mg/kg Oral LD50 Mouse : 3625 mg/kg Dermal LD50 Rabbit : >5 gm/kg
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	ORAL LD50 (RAT): >10,000 MG/KG, INTRAVAVENOUS LD50 (RAT): 120 MG/KG

### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
STYRENE MONOMER (VOC) 100-42-5	25 - 30			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)
TITANIUM DIOXIDE 13463-67-7	1 - 5			2B Possible Carcinogen

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1			Monograph 65, 1996

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
TALC 14807-96-6	5 - 10			male rat-some evidence; female rat-clear evidence; male mice-no evidence; female mice- no evidence

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Considerations

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### Reportable Quantity Description:

### International Air Transport Association (IATA):

Proper Shipping Name: Paint  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### International Maritime Organization (IMO):

Proper Shipping Name: PAINT  
Hazard Class: 3  
Non-Bulk UN ID Number: UN1263  
Packing Group: III

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.

STYRENE MONOMER (VOC) 100-42-5	25 - 30		form R reporting required for 0.1% de minimis concentration	1000
METHYL METHACRYLATE 80-62-6	1 - 5		form R reporting required for 1.0% de minimis concentration	1000

**SARA 311/312 Hazard Class:**

Acute: yes  
Chronic: yes  
Flammability: yes  
Reactivity: no  
Sudden Pressure: no

**U.S. STATE REGULATIONS:**

**Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

**Pennsylvania Right To Know:**

STYRENE MONOMER (VOC)	100-42-5
TITANIUM DIOXIDE	13463-67-7
PROPRIETARY INERT	Trade Secret
TALC	14807-96-6
METHYL METHACRYLATE	80-62-6

**Additional Non-Hazardous Materials**

PROPRIETARY RESIN	Trade Secret
PROPRIETARY INERT	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

**Rule 66 status of product**

Not photochemically reactive.

**INTERNATIONAL REGULATIONS - Chemical Inventories**

**US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

**16. OTHER INFORMATION**

**HMIS Codes**

Health: 2\*  
Flammability: 3  
Reactivity: 2  
PPE: X - See Section 8 for Personal Protective Equipment (PPE).

**Abbreviations:**

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

**Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

**Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	13/Jul/2008
Revision Date:	17/Jun/2008

# CERTIFIED PRODUCT DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

**Product ID:** 5799L90035  
**Product Name:** AZTEC LE YELLOW  
**Product Use:** Paint product.  
**Print date:** 14/Jul/2008  
**Revision Date:** 17/Jun/2008

### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248

**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. AS SUPPLIED (AS FORMULATED) PRODUCT PROPERTIES

**VOC % by Weight** 33.62  
**VOC grams/litre** 411.599  
**Percent VHAP by Weight:** 32.91  
**LBs VHAP/GAL Solid:** 6.19  
**LBs VHAP/LB Solid:** .5  
**Density (lbs per US gallon):** 10.21

Ingredient Name CAS-No.	Approx. Weight %	HAP Hazardous Air Contaminants CAA 1990
STYRENE MONOMER (VOC) 100-42-5	29.0881	PRESENT
METHYL METHACRYLATE 80-62-6	3.7607	PRESENT

The information in this document is provided to assist you in complying with appropriate federal, state and local laws and regulations. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.





## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

**Product ID:** 5799L90035  
**Product Name:** AZTEC LE YELLOW  
**Product Use:** Paint product.  
**Print date:** 14/Jul/2008  
**Revision Date:** 17/Jun/2008

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248

**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Eye Contact:

Moderate eye irritation  
Risk of serious damage to eyes.

#### Skin Contact:

Causes skin irritation.  
May cause sensitization by skin contact.

#### Ingestion:

Harmful if swallowed.

#### Inhalation:

Causes respiratory tract irritation.  
Harmful by inhalation.

#### Target Organ and Other Health Effects:

Causes headache, drowsiness or other effects to the central nervous system.  
Kidney injury may occur.  
Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Possible sensitization.

**Carcinogens:**

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

**3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
STYRENE MONOMER (VOC) 100-42-5	25 - 30	Styrene
TALC 14807-96-6	1 - 5	TALC (MG3H2(SI03)4)
METHYL METHACRYLATE 80-62-6	1 - 5	2-Propenoic acid, 2-methyl-, methyl ester
PROPRIETARY COLOR PIGMENT	1 - 5	PROPRIETARY COLOR PIGMENT
TITANIUM DIOXIDE 13463-67-7	1 - 5	Titanium dioxide

If this section is blank there are no hazardous components per OSHA guidelines.

**4. FIRST AID MEASURES****Eye Contact:**

Remove any contact lenses and open eyes wide apart. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

**Ingestion:**

Rinse mouth with water. Give one or two glasses of water. Never give anything by mouth to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention.

**Inhalation:**

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.

**Medical conditions aggravated by exposure:**

Any respiratory or skin condition.

**5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):	88°F (31°C)
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -°F (°C)
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7. See Section 10.
Hazardous combustion products:	

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Keep containers and surroundings cool with water spray.

**6. ACCIDENTAL RELEASE MEASURES****Action to be taken if material is released or spilled:**

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid all personal contact.

**7. HANDLING AND STORAGE****Precautions to be taken in handling and storage:**

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. To maintain product quality, do not store in heat or direct sunlight. Do not store above 85 degrees F (29.4 degrees C).

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS****Personal Protective Equipment****Eye and face protection:**

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

**Skin protection:**

Gloves: Neoprene or other nonporous.

**Other Personal Protection Data:**

Ensure that eyewash stations and safety showers are close to the workstation location. To prevent skin contact wear protective clothing covering all exposed areas. Chemical resistant apron

**Respiratory protection:**

Wear appropriate, properly fitted respirator (NIOSH approved) during spray application or in other situation where mists may be generated unless air monitoring vapor mist levels are below applicable limits-- where applicable limits have been established. When respirators are used, follow respirator manufacturers directions for use.

**Ventilation**

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Use explosion-proof electrical/ventilating/lighting/equipment.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
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STYRENE MONOMER (VOC) 100-42-5	25 - 30	100 ppm	200 ppm	
TALC 14807-96-6	1 - 5	Respirable. Listed. Total dust. Listed.		
METHYL METHACRYLATE 80-62-6	1 - 5	410 mg/m <sup>3</sup> 100 ppm		
TITANIUM DIOXIDE 13463-67-7	1 - 5	15 mg/m <sup>3</sup> Total dust.		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER (VOC) 100-42-5	25 - 30	20 ppm	40 ppm		
TALC 14807-96-6	1 - 5	2 mg/m <sup>3</sup> Respirable fraction. The value is for particulate matter containing no asbestos and <1% crystalline silica.			
METHYL METHACRYLATE 80-62-6	1 - 5	50 ppm	100 ppm		
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 mg/m <sup>3</sup>			

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
Vapor pressure:	35.3383459 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	3.6
Boiling point:	not determined -°F (not determined°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	10.21
Specific Gravity:	1.22
Evaporation rate (butyl acetate = 1.0):	3.1
Flash point (Fahrenheit):	88°F (31°C)
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -°F (°C)

## 10. STABILITY AND REACTIVITY

Stability:	Stable if protected from heat and exposure to air.
Conditions to Avoid:	Heat. Peroxides
Incompatibility:	Strong oxidizing agents Acids or alkalis.
Hazardous Polymerization:	Product may polymerize when exposed to heat.
Hazardous Decomposition Products:	Silicon dioxide. Carbon monoxide and carbon dioxide. Metal oxide fumes. Nitrogen compounds.

## 10. STABILITY AND REACTIVITY

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
STYRENE MONOMER (VOC) 100-42-5	25 - 30	Inhalation LC50 Rat : 12 gm/m <sup>3</sup> /4H Inhalation LC50 Mouse : 9500 mg/m <sup>3</sup> /4H Oral LD50 Rat : 2650 mg/kg Oral LD50 Mouse : 316 mg/kg
METHYL METHACRYLATE 80-62-6	1 - 5	Inhalation LC50 Rat : 78000 mg/m <sup>3</sup> /4H Inhalation LC50 Mouse : 18500 mg/m <sup>3</sup> /2H Oral LD50 Rat : 7872 mg/kg Oral LD50 Mouse : 3625 mg/kg Dermal LD50 Rabbit : >5 gm/kg

### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
STYRENE MONOMER (VOC) 100-42-5	25 - 30			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)
TITANIUM DIOXIDE 13463-67-7	1 - 5			2B Possible Carcinogen

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
TALC 14807-96-6	1 - 5			male rat-some evidence; female rat-clear evidence; male mice-no evidence; female mice- no evidence

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations**

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

**14. TRANSPORTATION INFORMATION****U.S. Department of Transportation**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

**U.S. Highway & Rail Shipments**

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

**Reportable Quantity Description:****International Air Transport Association (IATA):**

Proper Shipping Name: Paint  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

**International Maritime Organization (IMO):**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 Non-Bulk UN ID Number: UN1263  
 Packing Group: III

**15. REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS:**

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
STYRENE MONOMER (VOC) 100-42-5	25 - 30		form R reporting required for 0.1% de minimis concentration	1000
METHYL METHACRYLATE 80-62-6	1 - 5		form R reporting required for 1.0% de minimis concentration	1000

**SARA 311/312 Hazard Class:**

Acute: yes  
 Chronic: yes  
 Flammability: yes  
 Reactivity: no  
 Sudden Pressure: no

**U.S. STATE REGULATIONS:****Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

**Pennsylvania Right To Know:**

TITANIUM DIOXIDE	13463-67-7
PROPRIETARY COLOR PIGMENT	Trade Secret
TALC	14807-96-6
METHYL METHACRYLATE	80-62-6
STYRENE MONOMER (VOC)	100-42-5

**Additional Non-Hazardous Materials**

PROPRIETARY INERT	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

**Rule 66 status of product** Not photochemically reactive.

**INTERNATIONAL REGULATIONS - Chemical Inventories**

**US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

**16. OTHER INFORMATION**

**HMIS Codes**

<b>Health:</b>	2*
<b>Flammability:</b>	3
<b>Reactivity:</b>	2
<b>PPE:</b>	X - See Section 8 for Personal Protective Equipment (PPE).

**Abbreviations:**

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

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**Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	14/Jul/2008
Revision Date:	17/Jun/2008

# CERTIFIED PRODUCT DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

**Product ID:** 5799R90052  
**Product Name:** AZTEC LE RED  
**Product Use:** Paint product.  
**Print date:** 14/Jul/2008  
**Revision Date:** 15/Jun/2008

### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248

**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. AS SUPPLIED (AS FORMULATED) PRODUCT PROPERTIES

VOC % by Weight 32.83  
VOC grams/litre 407.693  
Percent VHAP by Weight: 31.98  
LBs VHAP/GAL Solid: 6.05  
LBs VHAP/LB Solid: .48  
Density (lbs per US gallon): 10.36

Ingredient Name CAS-No.	Approx. Weight %	HAP Hazardous Air Contaminants CAA 1990
STYRENE MONOMER (VOC) 100-42-5	27.4419	PRESENT
METHYL METHACRYLATE 80-62-6	4.4737	PRESENT

31.9  
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## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

**Product ID:** 5799R90052  
**Product Name:** AZTEC LE RED  
**Product Use:** Paint product.  
**Print date:** 14/Jul/2008  
**Revision Date:** 15/Jun/2008

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248

**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Eye Contact:

Moderate eye irritation  
Risk of serious damage to eyes.

#### Skin Contact:

Causes skin irritation.  
May cause sensitization by skin contact.

#### Ingestion:

Harmful if swallowed.

#### Inhalation:

Causes respiratory tract irritation.  
Harmful by inhalation.

#### Target Organ and Other Health Effects:

Causes headache, drowsiness or other effects to the central nervous system.  
Kidney injury may occur.  
Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Possible sensitization.

**Carcinogens:**

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

**3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
STYRENE MONOMER (VOC) 100-42-5	25 - 30	Styrene
TALC 14807-96-6	5 - 10	TALC (MG3H2(SI03)4)
METHYL METHACRYLATE 80-62-6	1 - 5	2-Propenoic acid, 2-methyl-, methyl ester
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
TITANIUM DIOXIDE 13463-67-7	.1 - 1	Titanium dioxide

If this section is blank there are no hazardous components per OSHA guidelines.

**4. FIRST AID MEASURES****Eye Contact:**

Remove any contact lenses and open eyes wide apart. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

**Ingestion:**

Rinse mouth with water. Give one or two glasses of water. Never give anything by mouth to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention.

**Inhalation:**

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.

**Medical conditions aggravated by exposure:**

Any respiratory or skin condition.

**5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):

88°F (31°C)

Lower explosive limit:

1 %

Upper explosive limit:

13 %

Autoignition temperature:

not determined -°F (°C)

Sensitivity to impact:

no

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

Hazardous combustion products:

See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Keep containers and surroundings cool with water spray.

**6. ACCIDENTAL RELEASE MEASURES****Action to be taken if material is released or spilled:**

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid all personal contact.

**7. HANDLING AND STORAGE****Precautions to be taken in handling and storage:**

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. To maintain product quality, do not store in heat or direct sunlight. Do not store above 85 degrees F (29.4 degrees C).

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS****Personal Protective Equipment****Eye and face protection:**

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

**Skin protection:**

Gloves: Neoprene or other nonporous.

**Other Personal Protection Data:**

Ensure that eyewash stations and safety showers are close to the workstation location. To prevent skin contact wear protective clothing covering all exposed areas. Chemical resistant apron

**Respiratory protection:**

Wear appropriate, properly fitted respirator (NIOSH approved) during spray application or in other situation where mists may be generated unless air monitoring vapor mist levels are below applicable limits-- where applicable limits have been established. When respirators are used, follow respirator manufacturers directions for use.

**Ventilation**

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Use explosion-proof electrical/ventilating/lighting/equipment.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations

STYRENE MONOMER (VOC) 100-42-5	25 - 30	100 ppm	200 ppm	
TALC 14807-96-6	5 - 10	Respirable. Listed. Total dust. Listed.		
METHYL METHACRYLATE 80-62-6	1 - 5	410 mg/m <sup>3</sup> 100 ppm		
PROPRIETARY INERT	1 - 5	5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust. Respirable fraction. Listed. Total dust. Listed.		
TITANIUM DIOXIDE 13463-67-7	.1 - 1	15 mg/m <sup>3</sup> Total dust.		

**ACGIH Threshold Limit Value (TLV's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER (VOC) 100-42-5	25 - 30	20 ppm	40 ppm		
TALC 14807-96-6	5 - 10	2 mg/m <sup>3</sup> Respirable fraction. The value is for particulate matter containing no asbestos and <1% crystalline silica.			
METHYL METHACRYLATE 80-62-6	1 - 5	50 ppm	100 ppm		
PROPRIETARY INERT	1 - 5	10 mg/m <sup>3</sup>			
TITANIUM DIOXIDE 13463-67-7	.1 - 1	10 mg/m <sup>3</sup>			

**9. PHYSICAL PROPERTIES**

Odor:	Normal for this product type.
Physical State:	liquid
Vapor pressure:	35.3383459 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	3.6
Boiling point:	not determined -°F (not determined°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	10.36
Specific Gravity:	1.24
Evaporation rate (butyl acetate = 1.0):	3.1
Flash point (Fahrenheit):	88°F (31°C)
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -°F (°C)

## 10. STABILITY AND REACTIVITY

Stability: Stable if protected from heat and exposure to air.  
 Conditions to Avoid: Heat. Peroxides  
 Incompatibility: Strong oxidizing agents  
 Hazardous Polymerization: Product may polymerize when exposed to heat.  
 Hazardous Decomposition Products: Silicon dioxide. Carbon monoxide and carbon dioxide.  
 Metal oxide fumes. Nitrogen compounds.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
STYRENE MONOMER (VOC) 100-42-5	25 - 30	Inhalation LC50 Rat : 12 gm/m <sup>3</sup> /4H Inhalation LC50 Mouse : 9500 mg/m <sup>3</sup> /4H Oral LD50 Rat : 2650 mg/kg Oral LD50 Mouse : 316 mg/kg
METHYL METHACRYLATE 80-62-6	1 - 5	Inhalation LC50 Rat : 78000 mg/m <sup>3</sup> /4H Inhalation LC50 Mouse : 18500 mg/m <sup>3</sup> /2H Oral LD50 Rat : 7872 mg/kg Oral LD50 Mouse : 3625 mg/kg Dermal LD50 Rabbit : >5 gm/kg

### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic. Contains TIO<sub>2</sub> which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO<sub>2</sub> provide an adequate basis to conclude TIO<sub>2</sub> is carcinogenic. TIO<sub>2</sub> is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
STYRENE MONOMER (VOC) 100-42-5	25 - 30			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)
TITANIUM DIOXIDE 13463-67-7	.1 - 1			2B Possible Carcinogen

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
TALC 14807-96-6	5 - 10			male rat-some evidence; female rat-clear evidence; male mice-no evidence; female mice- no evidence

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Considerations

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### Reportable Quantity Description:

### International Air Transport Association (IATA):

Proper Shipping Name: Paint  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### International Maritime Organization (IMO):

Proper Shipping Name: PAINT  
Hazard Class: 3  
Non-Bulk UN ID Number: UN1263  
Packing Group: III

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
STYRENE MONOMER (VOC) 100-42-5	25 - 30		form R reporting required for 0.1% de minimis concentration	1000
METHYL METHACRYLATE 80-62-6	1 - 5		form R reporting required for 1.0% de minimis concentration	1000

### SARA 311/312 Hazard Class:

Acute: yes  
Chronic: yes  
Flammability: yes  
Reactivity: no

Sudden Pressure: no

## U.S. STATE REGULATIONS:

### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

### Pennsylvania Right To Know:

PROPRIETARY INERT	Trade Secret
TALC	14807-96-6
METHYL METHACRYLATE	80-62-6
STYRENE MONOMER (VOC)	100-42-5

### Additional Non-Hazardous Materials

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY INERT	Trade Secret
PROPRIETARY RESIN	Trade Secret

### Rule 66 status of product

Not photochemically reactive.

## INTERNATIONAL REGULATIONS - Chemical Inventories

### US TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

### HMIS Codes

Health:	2*
Flammability:	3
Reactivity:	2
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

### Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

**Preparation Information:**

Prepared By:

Regulatory Affairs Department

Print date:

14/Jul/2008

Revision Date:

15/Jun/2008



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M A T E R I A L S A F E T Y D A T A S H E E T  
COATINGS, RESINS, AND RELATED MATERIALS

MANUFACTURED BY:

Eastman Chemical Company  
400 East Cottage Place  
Carpentersville, IL. 60110

EMERGENCY CONTACT :CHEMTREC 1-800-424-9300  
(OUTSIDE US/CANADA:CHEMTREC 703-527-3887)

INFORMATION CONTACT:1-888-CALL-MWT (DURING NORMAL BUSINESS HOURS)

DATE OF PREP: 5/21/01 SUPERSEDES DATE: 5/18/01 DATE OF PRINT: 6/30/01  
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SECTION I. PRODUCT IDENTIFICATION  
-----

PRODUCT CODE: 733-2246 (INTERNAL REF.#162)

PRODUCT NAME :

UNSATURATED POLYESTER RESIN

SHIPPING DESCRIPTION:

RESIN SOLUTION,

3, UN 1866, PG III

MARINE POLLUTANT, CONTAINS:

STYRENE

1,2,4-TRIMETHYLBENZENE  
-----

SECTION II. HAZARDOUS INGREDIENTS  
-----

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH: 2 \* FLAMMABILITY: 3

REACTIVITY: 1

INGREDIENT CAS NO.	WT. PERCENT	WORKPLACE EXPOSURE LIMITS		SOURCE	VAPOR PRESSURE (mm Hg @68F)	LEL
		ppm	mg/m <sup>3</sup>			
STYRENE 100-42-5	33.5	20.000	85.000	TWA/ACGIH TLV	4.30	1.10
		40.000	170.000	STEL/ACGIH TLV		
		100.000		TWA/OSHA PEL		
		600.000		STEL/OSHA PEL		
		200.000		CEILING/OSHA PEL		
		50.000	215.000	TWA/NIOSH REL		
		100.000	425.000	STEL/NIOSH REL		
		700.0		NIOSH IDLH		

SECTION III. PHYSICAL DATA  
-----

BOILING RANGE: 148-415 F PERCENT VOLATILE BY VOL: 40.84  
SPECIFIC GRAVITY 1.092 EVAPORATION RATE (n-Bu Ac=1): 0.42  
VAPOR DENSITY (AIR=1): 2.995 VAPOR PRESSURE (mm Hg@68F): 3.61  
VOLATILE ORGANIC CONTENT (VOC): N/A  
APPEARANCE AND ODOR: light straw colored solution - styrene odor  
SOLUBILITY IN WATER: negligible  
-----

SECTION IV. FIRE AND EXPLOSION HAZARD DATA  
-----

FLASH POINT: 86 DEG. F SETAFLASH OSHA CLASSIFICATION: IC  
FLAMMABLE LIMITS % BY VOLUME IN AIR AT 212 DEG. F:

LOWER EXPLOSION LIMIT: 2.00

UPPER EXPLOSION LIMIT: 13.80

EXTINGUISHING MEDIA:

Use foam, carbon dioxide or chemical fire fighting apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES

The use of self-contained breathing apparatus is recommended for fire fighters. Water spray may be used for cooling containers to prevent possible pressure build-up and auto-ignition or explosion when exposed to extreme heat. Avoid spreading burning liquid with water used for cooling.

-----  
SECTION V.HEALTH HAZARD DATA  
-----

THRESHOLD LIMIT VALUE:

See Section II.

EFFECTS OF OVEREXPOSURE:

--- EYES CONTACT:

Severe irritation, redness, tearing and blurred vision.

--- SKIN CONTACT:

Prolonged or repeated exposure can cause moderate irritation, defatting, dermatitis and sensitization.

--- INHALATION:

Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in narcosis. (Central Nervous System depression)

--- INGESTION:

Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

Chronic exposure may cause damage to the Central Nervous System, Respiratory System, Lungs, Eyes, Skin, Gastrointestinal Tract, Liver, Spleen and Kidneys.

OTHER HEALTH EFFECTS:

Based upon a re-evaluation of previous negative and equivocal data and an increased incidence of lung tumors after oral administration in young adult mice, the International Agency for Research on Cancer (IARC) has listed styrene among those materials for which there is limited evidence for carcinogenicity in animals.

EMERGENCY AND FIRST AID PROCEDURES

--- EYES CONTACT:

-----  
SECTION V.

HEALTH HAZARD DATA

733-2246 (CONT.)  
-----

Flush with clean, lukewarm water for at least 15 minutes, occasionally lifting the eyelids. Obtain medical attention.

--- SKIN CONTACT:

Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Wash contaminated clothing thoroughly before re-use.

--- INHALATION:

Remove to fresh air. Apply artificial respiration or administer oxygen, if necessary. Call a physician immediately.

--- INGESTION:

Keep person warm, quiet and get immediate medical attention. Do not induce vomiting, because aspiration of material into the lungs from vomiting can cause chemical pneumonitis which can be fatal.

-----  
SECTION VI.

REACTIVITY DATA  
-----

STABILITY:

Stable under normal conditions. Avoid exposure to excessive heat.

INCOMPATIBILITY:

Avoid contact with strong mineral acids, peroxides and polymerization catalysts.

HAZARDOUS POLYMERIZATION:

Can Occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition may yield carbon dioxide and/or monoxide.

CALIFORNIA SCAQMD RULE 443.1:

This product contains photochemically reactive volatile organic compound(s). Refer to Section II and III.

-----  
SECTION VII.

SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate the area. Equip employees with appropriate protection equipment (See Section VIII). Dike around spilled material. Cover spill with inert absorbent material and shovel with non-sparking tools into container. Remove containers to a safe area and seal.

WASTE DISPOSAL METHOD:

Waste material must be disposed of in accordance with federal, state, and local environmental regulatory controls.

-----  
SECTION VIII.

SPECIAL PROTECTION INFORMATION

## RESPIRATORY PROTECTION:

Avoid breathing vapor or mist. If exposure may or does exceed occupational exposure limits (SEC. IV) use a NIOSH-approved respirator to prevent overexposure. In accord with 29CFR 1910.134 use either a full-face, atmosphere-supplying respirator or air-purifying respirator for organic vapors.

## VENTILATION:

Local exhaust must be sufficient to keep airborne vapor concentrations below the TLV limit. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

## PROTECTIVE GLOVES:

Polyvinyl alcohol gloves.

## EYE PROTECTION:

Splash goggles.

## OTHER PROTECTIVE EQUIPMENT:

Polyvinyl alcohol apron. Eye bath and safety shower. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM:

See first page of MSDS.

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Drums: Protect against physical damage. Outside or detached storage preferred.

Bulk: Storage should be in standard flammable liquid storage tanks.

## OTHER PRECAUTIONS:

All equipment should be grounded and bonded to reduce static electricity hazard. Use non-sparking tools.

Overexposure to material has apparently been found to cause the following effects in laboratory animals: liver abnormalities, kidney damage, lung damage.

RECENT DATA DOES NOT SUPPORT THE CHANGE IN THE CLASSIFICATION BY IARC OF STYRENE TO BE A SUSPECTED CARCINOGEN.

At the conclusion of a major notice and comment rulemaking revising its air contaminants regulations, OSHA concluded that the "current

evidence on styrene's carcinogenicity does not support its classification in the final rule as a carcinogen." 54 Fed. Reg. 2430 (Jan. 19, 1989); see also 54 Fed. Reg. at 2364. In the same rulemaking, the National Institute for Occupational Safety and Health (NIOSH) commented that there "seems to be little basis from the experimental animal investigations or epidemiologic studies to conclude at this time that styrene is carcinogenic." Moreover, other scientists have independently concluded that styrene does not present a carcinogenic risk to humans. I. C. Munro, et al. "A Review of Styrene Pharmacokinetics and Carcinogenicity" (July 21, 1989) (CanTox Inc.) (U.S. EPA Safe Drinking Water Docket No. IID, Document III J2.86, Attachment C).

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OTHER COMMENTS

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We recommend that containers be either professionally reconditioned for reuse by certified firms or properly disposed of by certified firms to help reduce the possibility of an accident. Disposal of containers should be in accordance with applicable federal, state and local laws and regulations. "Empty" drums should not be given to individuals.

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness.

The conditions of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

-----  
E N V I R O N M E N T A L D A T A S H E E T  
-----

\*\*\*\*\* MUST NOT BE DETACHED FROM MATERIAL SAFETY DATA SHEET \*\*\*\*\*

\*\*\* IF MSDS IS COPIED AND REDISTRIBUTED, THIS NOTICE MUST BE ATTACHED \*\*\*

MANUFACTURED BY: Eastman Chemical Company DATE OF LAST CHANGE: 1/03/14  
400 East Cottage Place  
Carpentersville, IL. 60110

PRODUCT NAME: 733-2246  
PRODUCT CLASS: UNSATURATED POLYESTER RESIN  
-----

SECTION I. PRODUCT IDENTIFICATION/COMPOSITION  
-----

PROD	COMPONENT	CAS NUMBER	PERCENT
P	UNSATURATED POLYESTER RESIN	MIXTURE	100
---	---TYPICAL DISTRIBUTION OF HAZARDOUS COMPONENTS---		
1	STYRENE	100-42-5	33.5

-----

SECTION II. SARA TITLE III INFORMATION  
-----

PROD	EHS RQ (LBS) (*1)	EHS TPQ (LBS) (*2)	SEC 313 (*3)	311/312 CATEGORIES (*4)
P	20,000,000			1 3 4 5
1			YES	1 3 4 5

-----

-----FOOTNOTES-----

- \*1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SARA SEC.302/304
- \*2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SARA SEC.302
- \*3 = TOXIC CHEMICAL, SARA SEC 313
- \*4 = HAZARD CATEGORY FOR SARA SEC. 311/312 REPORTING
  - 1 = FIRE HAZARD
  - 2 = SUDDEN RELEASE OF PRESSURE HAZARD
  - 3 = REACTIVE HAZARD
  - 4 = IMMEDIATE (ACUTE) HEALTH HAZARD
  - 5 = DELAYED (CHRONIC) HEALTH HAZARD

SECTION III. DOT/CERCLA INFORMATION  
-----

THE CERCLA REPORTABLE QUANTITY (RQ) FOR THIS MIXTURE IS 2,988 LBS.  
WHICH IS BASED ON THE RQ OF EACH INGREDIENT AND ITS PERCENT IN MIXTURE.

SECTION IV. ADDITIONAL REGULATORY INFORMATION  
-----

THE POLYMER AND ALL COMPONENTS OF THIS PRODUCT ARE PRESENT ON THE UNITED STATES TOXIC SUBSTANCES CONTROL ACT (TSCA) CHEMICAL SUBSTANCES INVENTORY.

THE INFORMATION IN THIS MSDS AND ENVIRONMENTAL DATA SHEET WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, REGARDING ITS ACCURACY OR COMPLETENESS.

—

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR  
DESCRIPTION: CONDUCTIVE TOOLING  
PRODUCT CODE IDENTITY: 945B023  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 12  
LAST REVISED : 11/07/2002  
DATE OF ISSUE: 03/05/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\*\*\*  
\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*  
\*\*\*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0600  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1040  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 001333-86-4  
CARBON BLACK  
PCT BY WT: 4.2490  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 3.5 MG/CU.M.  
OSHA PEL/TWA: 3.5 MG/CU.M.  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
OTHER: NIOSH REL: 3.5 MG/CU.M.



-----  
4

CAS# 000100-42-5

STYRENE MONOMER

PCT BY WT: 46.9200 VAPOR PRESSURE: 4.500 MMHG @ 68F

\*\*\*\*\*  
\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 945B023 \*  
\*\*\*\*\*

EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
5  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY/ON CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
6  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.0482 LB/GL  
Theoretical Specific Gravity, Calculated: 1.087  
Theoretical VOC, Calculated: 4.258 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLACK  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE

\*\*\*\*\*  
\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 945B023 \*  
\*\*\*\*\*  
% HAP BY WEIGHT 46.948  
% MONOMER BY WEIGHT 46.918

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

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\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 945B023 \*  
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EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

CARBON BLACK

The IARC evaluation in Monograph 65 concluded that "there is sufficient evidence in experimental animals for the carcinogenicity of Carbon Black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans (Group 2B)". Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure.

Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.  
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SECTION VII SPILL OR LEAK PROCEDURES

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\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 945B023 \*  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

\*\*\*\*\*  
\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 945B023 \*  
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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0600

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COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1040  
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STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 46.9200  
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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.



MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR
DESCRIPTION: HG RETENTION GREEN TOOLING
PRODUCT CODE IDENTITY: 945GA104
NPCA HMIS RATING: H 2\* F 3 R 1
LAST REVISED: 03/06/2009
PRINT DATE: 03/14/2010
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: CCP PRODUCT STEWARDSHIP
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541
CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)
FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 027253-31-2
COBALT NEODECANOATE, 26% COBALT
PCT BY WT: .0550
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .0480
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 4.1500 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

4
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 42.3890 VAPOR PRESSURE: 4.500 MMHG @ 68F

Handwritten initials 'HLS' with a bracket pointing to the ingredients section.

\*\*\*\*\*  
\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 945GA104 \*  
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EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
5  
CAS# 112945-52-5  
SILICA, AMORPHOUS  
EPA CASN 7631-86-9  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3  
OSHA PEL/TWA: 15 MG/M3-TOTAL DUST; 5 MG/M3-TOTAL RESPIRABLE DUST  
-----

6  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY/ON CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
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7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY AND CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
-----

9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
-----

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*  
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SECTION III PHYSICAL DATA

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Boiling Range: High- -N/A F Low- 212.0 F

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\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 945GA104 \*  
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Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.0502 LB/GL  
Theoretical Specific Gravity, Calculated: 1.087  
Theoretical VOC, Calculated: 4.264 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: GREEN  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 46.728  
% MONOMER BY WEIGHT 46.532

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 82.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = UN1866, RESIN SOLUTION, 3, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 945GA104 \*  
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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

Based on the presence of components (\*\*,04)

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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\* POLYCOR  
\* MATERIAL SAFETY DATA SHEET  
\* 945GA104  
\*\*\*\*\*

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 945GA104 \*  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0550

-----  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .0480  
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METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 4.1500  
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STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 42.3890  
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\*\*\*\*\*  
COOK COMPOSITES AND POLYMERS CO.  
WARRANTIES, DISCLAIMERS AND LIMITATION OF LIABILITY (REV. 03/09)  
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Seller warrants that: (i) Buyer shall obtain good title to the product sold hereunder; (ii) at Shipment such product shall conform to Seller's specifications; and (iii) the sale or use of such product will not infringe the claims of any U.S. patent covering the product itself, but Seller does not warrant against infringement which might arise by the use of said product in any combination with other products or arising in the operation of any process. SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EVER IF THAT PURPOSE IS KNOWN TO SELLER. ANY APPLICATION INFORMATION OR ASSISTANCE WHICH SELLER MAY FURNISH TO BUYER IS GRATUITOUS AND SHALL IN NO WAY BE DEEMED PART OF THE SALE OF PRODUCT HEREUNDER OR A WARRANTY OF THE RESULTS OBTAINED THROUGH THE USE OF SUCH PRODUCT.

\*\*\*\*\*  
 \* POLYCOR \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 945GA104 \*  
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Without limiting the generality of the foregoing, if any product fails to meet warranties mentioned above, Seller shall at Seller's option either replace the nonconforming product at no cost to Buyer or refund Buyer the purchase price thereof. The foregoing is Buyer's sole and exclusive remedy for failure of Seller to deliver or supply product that meets the foregoing warranties. Seller's liability with respect to this contract and the product purchased under it shall not exceed the purchase price of the portion of such product as to which such liability arises. Seller shall not be liable for any injury, loss, or damage resulting from the handling or use of the product shipped hereunder whether in the manufacturing process or otherwise. In no event shall Seller be liable for special, incidental, or consequential damages including without limitations loss of profits, capital or business opportunity, downtime costs, or claims of customers or employees of Buyer. Failure to give Seller notice of any claim within thirty (30) days of shipment of the product concerned shall constitute a waiver of such claim by Buyer. Any product credit received by Buyer hereunder, if not used, shall automatically expire one (1) year from the date the credit was granted. Notwithstanding any applicable statute of limitations to the contrary, any action by Buyer in relation to a claim hereunder must be instituted no later than two (2) years after the occurrence of the event upon which the claim is based. All the foregoing limitations shall apply irrespective of whether Buyer's claim is based upon breach of contract, breach of warranty, negligence, strict liability, or any other legal theory.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorFlex  
DESCRIPTION: BLACK  
PRODUCT CODE IDENTITY: 953BK162  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 02/23/2006  
DATE OF ISSUE: 03/05/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\*\*\*  
\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*  
\*\*\*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0360  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1580  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 9.0450 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)



4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 32.5290 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

32.529  
9.045  
-----  
41.4

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953BK162 \*

\*\*\*\*\*  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

-----  
7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY/ON CANADIAN NDSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
8 Y90-0002  
UNSATURATED POLYESTER RESIN CAS# PROPRIETARY  
ON TSCA INVENTORY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
9  
UNSATURATED POLYESTER RESIN CAS# PROPRIETARY  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate

subsection above under OTHER LIMITS.

\*\*\*\*\*  
\*\*\*\*\*

This substance is classified as a hazardous air pollutant.

\*\*\*\*\*

-----  
SECTION III PHYSICAL DATA  
-----

Boiling Range: High- -N/A F Low- 212.0 F

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953BK162 \*  
\*\*\*\*\*

Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.4290 LB/GL  
Theoretical Specific Gravity, Calculated: 1.133  
Theoretical VOC, Calculated: 4.019 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLACK  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 41.604  
% MONOMER BY WEIGHT 41.571

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.  
ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953BK162 \*  
\*\*\*\*\*

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.

Symptoms include severe headache, vomiting, unconsciousness and blurring

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953BK162 \*  
\*\*\*\*\*

or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

-----  
SECTION VI REACTIVITY DATA  
-----

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.

Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953BK162 \*  
\*\*\*\*\*

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

-----  
SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT

CAS# 027253-31-2 PCT BY WT: .0360

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1580

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 9.0450

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 32.5290  
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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
\*\*\*\*\*

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change



at any time without notice to Buyer. Buyer must give Seller notice in

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953BK162 \*  
\*\*\*\*\*

writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorFlex  
DESCRIPTION: DARK BLUE  
PRODUCT CODE IDENTITY: 953LK160  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 02  
LAST REVISED : 02/28/2006  
DATE OF ISSUE: 03/05/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0280  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1540  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 8.8580 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 27.3650 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

27.365  
8.850  
-----  
36.2

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953LK160 \*  
\*\*\*\*\*

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
6  
CAS# 001332-58-7  
ALUMINUM SILICATE (KAOLIN)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M.  
OSHA PEL/TWA: 10MG/CU.M. (TOTAL DUST); 5MG/CU.M. (RESPIRABLE DUST)

-----  
7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY/ON CANADIAN NDSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
8 Y90-0002  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

-----  
SECTION III PHYSICAL DATA  
-----

Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953LK160 \*  
\*\*\*\*\*

Theoretical Weight per Gallon, Calculated: 9.7584 LB/GL  
Theoretical Specific Gravity, Calculated: 1.172  
Theoretical VOC, Calculated: 3.637 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLUE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 36.241  
% MONOMER BY WEIGHT 36.217

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953LK160 \*  
\*\*\*\*\*

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.



Symptoms include severe headache, vomiting, unconsciousness and blurring

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\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 953LK160 \*  
\*\*\*\*\*

or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

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Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT

CAS# 027253-31-2 PCT BY WT: .0280  
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COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1540  
-----

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 8.8580  
-----

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 27.3650  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

at any time without notice to Buyer. Buyer must give Seller notice in

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\* ArmorFlex \*  
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\* 953LK160 \*

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writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: BUFFBACK
DESCRIPTION: BLACK
PRODUCT CODE IDENTITY: 954BJ232
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 01
LAST REVISED : 06/17/2002
DATE OF ISSUE: 01/03/2006
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541
CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1590
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 4.5550 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

41.6

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 37.0680 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLo: 5000 PPM/8H (RAT)

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\* BUFFBACK \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 954BJ232 \*  
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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
CAS# 001332-58-7  
ALUMINUM SILICATE (KAOLIN)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M.  
OSHA PEL/TWA: 10MG/CU.M. (TOTAL DUST) ; 5MG/CU.M. (RESPIRABLE DUST)

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6  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY/ON CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY AND CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA

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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.6458 LB/GL  
Theoretical Specific Gravity, Calculated: 1.159  
Theoretical VOC, Calculated: 4.120 LB/GL  
--If applicable , see Section X for further VOC information--

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\* BUFFBACK \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 954BJ232 \*  
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Physical State: LIQUID  
Appearance: BLACK  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: -N/A  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: -N/A  
Static Electricity Explosion: -N/A  
% HAP BY WEIGHT 41.665  
% MONOMER BY WEIGHT 41.615

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 82.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:



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\* BUFFBACK \*  
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\* 954BJ232 \*  
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Irritation. Can cause defatting of skin which may lead to dermatitis.  
INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

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\* BUFFBACK \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 954BJ232 \*  
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CONDITIONS TO AVOID:  
Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):  
Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:  
Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:  
Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:  
Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:  
Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:  
Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:  
Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent

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\* BUFFBACK \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 954BJ232 \*  
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leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1590

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 4.5550

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 37.0680

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product

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\* BUFFBACK \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 954BJ232 \*  
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if any defect in material or workmanship is found to exist. This exclusive  
remedy shall not be deemed to have failed its essential purpose so long as  
Seller is willing and able to replace the defective products or refund the  
purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: BUFFBACK
DESCRIPTION: DARK BLUE
PRODUCT CODE IDENTITY: 954LJ261
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 01
LAST REVISED: 06/18/2002
DATE OF ISSUE: 01/03/2006
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1510
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 4.3240 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 35.3240 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLo: 5000 PPM/8H (RAT)

35.6

M.B.G.04

204-303

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\* BUFFBACK  
\* MATERIAL SAFETY DATA SHEET  
\* 954LJ261  
\*\*\*\*\*

OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
4  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
-----

5  
CAS# 001332-58-7  
ALUMINUM SILICATE (KAOLIN)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M.  
OSHA PEL/TWA: 10MG/CU.M. (TOTAL DUST); 5MG/CU.M. (RESPIRABLE DUST)  
-----

6  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY/ON CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
-----

7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY AND CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*  
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SECTION III PHYSICAL DATA

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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.7582 LB/GL  
Theoretical Specific Gravity, Calculated: 1.172  
Theoretical VOC, Calculated: 3.998 LB/GL  
--If applicable , see Section X for further VOC information--

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Physical State: LIQUID  
Appearance: BLUE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 39.711  
% MONOMER BY WEIGHT 39.640

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 82.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:  
EYE CONTACT:  
Irritation. Symptoms are tearing, redness and discomfort.  
SKIN CONTACT:

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Irritation. Can cause defatting of skin which may lead to dermatitis.  
INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable      HAZARDOUS POLYMERIZATION: May occur.



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\* 954LJ261 \*  
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CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent

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\* 954LJ261 \*  
\*\*\*\*\*

leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1510

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 4.3240

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 35.3240  
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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product

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\* 954LJ261 \*  
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if any defect in material or workmanship is found to exist. This exclusive  
remedy shall not be deemed to have failed its essential purpose so long as  
Seller is willing and able to replace the defective products or refund the  
purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorFlex
DESCRIPTION: HAP33 DARK BLUE
PRODUCT CODE IDENTITY: 963LK160
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 01
LAST REVISED : 05/10/2007
DATE OF ISSUE: 02/10/2008
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: CCP PRODUCT STEWARDSHIP
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541
CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)
FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1
CAS# 027253-31-2
COBALT NEODECANOATE, 26% COBALT
PCT BY WT: .0350
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1540
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 5.7700 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)

LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

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4

CAS# 000100-42-5

STYRENE MONOMER

PCT BY WT: 22.7840 VAPOR PRESSURE: 4.500 MMHG @ 68F

22.784  
5.77  
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20.4

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EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
 ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (8 HR TWA)  
 OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
 OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
 LD50, Oral: 4.37 G/KG (RAT)  
 LD50, Dermal: >5 G/KG (RABBIT)  
 OTHER: LCLO: 5000 PPM/8H (RAT)  
 OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
 OTHER LIMITS:  
 IARC - Group 2B See Section V

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 5  
 CAS# 014807-96-6  
 TALC (HYDROUS MAGNESIUM SILICATE)  
 PCT BY WT: 5 - 10  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
 OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
 LD50, Oral: NOT AVAILABLE  
 LD50, Dermal: NOT AVAILABLE  
 LC50, Inhalation: NOT AVAILABLE

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 6  
 CAS# 021645-51-2  
 ALUMINA TRIHYDRATE  
 ON TSCA INVENTORY  
 PCT BY WT: 20 - 30  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
 OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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 7  
 UNSATURATED POLYESTER RESIN  
 ON TSCA INVENTORY CAS# PROPRIETARY  
 PCT BY WT: 5 - 10  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: NONE ESTABLISHED  
 OSHA PEL/TWA: NONE ESTABLISHED

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 8  
 UNSATURATED POLYESTER  
 ON TSCA INVENTORY/ON CANADIAN NDSL CAS# PROPRIETARY  
 PCT BY WT: 10 - 20  
 EXPOSURE LIMIT:

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 9  
 UNSATURATED POLYESTER RESIN  
 TSCA POLYMER EXEMPT  
 PCT BY WT: 10 - 20  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: NONE ESTABLISHED  
 OSHA PEL/TWA: NONE ESTABLISHED

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 \*\*\*\*\*  
 This product contains one or more reported carcinogens or suspected  
 carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate

subsection above under OTHER LIMITS.

\*\*\*\*\*  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F

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 \* ArmorFlex \*  
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Vapor Pressure: See Section II  
 Theoretical Weight per Gallon, Calculated: 10.5971 LB/GL  
 Theoretical Specific Gravity, Calculated: 1.273  
 Theoretical VOC, Calculated: 3.190 LB/GL  
 --If applicable, see Section X for further VOC information--  
 Physical State: LIQUID  
 Appearance: BLUE  
 Odor: MODERATE AROMATIC  
 Odor Threshold: -N/A  
 pH: -N/A  
 Freezing Point: -N/A  
 Water Solubility: INSOLUBLE  
 Coefficient of Water/Oil Distribution: -N/A  
 Mechanical Impact Explosion: NO KNOWN HAZARD  
 Static Electricity Explosion: AVOID STATIC CHARGE  
 % HAP BY WEIGHT 28.715  
 % MONOMER BY WEIGHT 28.552

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 SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
 For Flash Points 73 to 100 deg. F.  
 OSHA Flammability Classification: Class IC  
 DOT Flammability Classification: Flammable Liquid  
 Lower Flammable Limit in Air: Lower- 1.1 % by volume  
 DOT Shipping Name:  
 Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
 NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55



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 \* ArmorFlex \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 963LK160 \*  
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 SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.

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Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

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\* ArmorFlex \*  
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\* 963LK160 \*  
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EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

-----  
SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0350

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1540

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 5.7700

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 22.7840

-----  
DISCLAIMER AND LIMITATION OF LIABILITY  
-----

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963LK160 \*  
\*\*\*\*\*

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorFlex  
DESCRIPTION: HAP33 MIDNIGHT BLUE  
PRODUCT CODE IDENTITY: 963LK188  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 02/02/2007  
DATE OF ISSUE: 04/15/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0360  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1580  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.8800 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 23.2370 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

23.237  
5.880  
-----  
29.1

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963LK188 \*  
\*\*\*\*\*

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
8  
UNSATURATED POLYESTER  
ON TSCA INVENTORY/ON CANADIAN NDSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

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9  
UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*



\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963LK188 \*  
\*\*\*\*\*

Theoretical Weight per Gallon, Calculated: 10.6004 LB/GL  
Theoretical Specific Gravity, Calculated: 1.274  
Theoretical VOC, Calculated: 3.214 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLUE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 29.280  
% MONOMER BY WEIGHT 29.114

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963LK188 \*  
\*\*\*\*\*

-----  
SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.

Symptoms include severe headache, vomiting, unconsciousness and blurring

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963LK188 \*  
\*\*\*\*\*

or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.  
Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963LK188 \*  
\*\*\*\*\*

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

-----  
SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT

CAS# 027253-31-2 PCT BY WT: .0360

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1580

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 5.8800

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 23.2370

-----  
DISCLAIMER AND LIMITATION OF LIABILITY  
-----

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

at any time without notice to Buyer. Buyer must give Seller notice in

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963LK188 \*  
\*\*\*\*\*

writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.



MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorFlex  
DESCRIPTION: HAP33 RUBEN  
PRODUCT CODE IDENTITY: 963RK139  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 02/02/2007  
DATE OF ISSUE: 04/15/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0340  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1500  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.5700 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 23.1140 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

23.114  
5.57  
-----  
28.7

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK139 \*  
\*\*\*\*\*

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

-----  
7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
8  
UNSATURATED POLYESTER  
ON TSCA INVENTORY/ON CANADIAN NDSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

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9  
UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

-----  
SECTION III PHYSICAL DATA  
-----

Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK139 \*  
\*\*\*\*\*

Theoretical Weight per Gallon, Calculated: 10.5481 LB/GL  
Theoretical Specific Gravity, Calculated: 1.267  
Theoretical VOC, Calculated: 3.164 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: RED  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 28.840  
% MONOMER BY WEIGHT 28.681

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK139 \*  
\*\*\*\*\*

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.

Symptoms include severe headache, vomiting, unconsciousness and blurring

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK139 \*  
\*\*\*\*\*

or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.  
Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:



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\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK139 \*  
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Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0340

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1500

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 5.5700

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 23.1140

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

at any time without notice to Buyer. Buyer must give Seller notice in

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK139 \*  
\*\*\*\*\*

writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorFlex  
DESCRIPTION: HAP33 REGAL  
PRODUCT CODE IDENTITY: 963RK140  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 02/02/2007  
DATE OF ISSUE: 04/15/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0340  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1500  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.6170 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 23.1640 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

23.164  
5.617  
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28.8

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\* ArmorFlex \*  
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\* 963RK140 \*  
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ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

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5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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8  
UNSATURATED POLYESTER  
ON TSCA INVENTORY/ON CANADIAN NDSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

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9  
UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II

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\* 963RK140 \*  
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Theoretical Weight per Gallon, Calculated: 10.5908 LB/GL  
Theoretical Specific Gravity, Calculated: 1.272  
Theoretical VOC, Calculated: 3.206 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: RED  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 28.938  
% MONOMER BY WEIGHT 28.778

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.  
ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55



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\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK140 \*  
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-----  
SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.

Symptoms include severe headache, vomiting, unconsciousness and blurring

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK140 \*  
\*\*\*\*\*

or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.

Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

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\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK140 \*  
\*\*\*\*\*

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.  
OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:  
Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.  
KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:  
The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:  
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0340

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1500

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 5.6170

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 23.1640

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DISCLAIMER AND LIMITATION OF LIABILITY  
-----

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

at any time without notice to Buyer. Buyer must give Seller notice in

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963RK140 \*  
\*\*\*\*\*

writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorPlus  
DESCRIPTION: HAP33 WHITE  
PRODUCT CODE IDENTITY: 963WH671  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 04/11/2006  
DATE OF ISSUE: 06/24/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.\*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0200  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1400  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 6.4860 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 23.7050 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

23.7050  
6.486  
-----  
30.2



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\*\*\*\*\*

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
5  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 20.6350  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
6  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
7  
UNSATURATED POLYESTER  
ON TSCA INVENTORY/ON CANADIAN NDSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

-----  
8  
UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

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SECTION III PHYSICAL DATA  
-----

Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 11.2659 LB/GL  
Theoretical Specific Gravity, Calculated: 1.354  
Theoretical VOC, Calculated: 3.489 LB/GL  
--If applicable , see Section X for further VOC information--

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Physical State: LIQUID  
Appearance: WHITE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.364  
% MONOMER BY WEIGHT 30.184

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

\*\*\*\*\*  
\* ArmorPlus \*  
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\* 963WH671 \*  
\*\*\*\*\*

Irritation. Can cause defatting of skin which may lead to dermatitis.  
INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

CARBON BLACK

The IARC evaluation in Monograph 65 concluded that "there is sufficient evidence in experimental animals for the carcinogenicity of Carbon Black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans (Group 2B)". Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure.

Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only

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carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

HYDROQUINONE

Chronic exposure to Hydroquinone at higher levels has caused brownish discoloration of the cornea and conjunctiva and distortion of the cornea, in some cases leading to decreased visual acuity and blindness. Hydroquinone may cause allergic skin reaction and is moderately toxic if ingested or inhaled. Spills of liquids contain Hydroquinone should be cleaned up thoroughly and immediately to avoid creation of dust. Dust in the air may cause eye injury or form and explosive mixture in air

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the

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\* 963WH671 \*  
\*\*\*\*\*

lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:  
Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:  
Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:  
Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.  
KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:  
The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:  
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0200

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COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1400  
-----

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\*\*\*\*\*

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 6.4860

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STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 23.7050  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.



MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorFlex  
 DESCRIPTION: MARINE CLEAR  
 PRODUCT CODE IDENTITY: 963XA220  
 NPCA HMIS RATING: H 2\* F 3 R 2  
 LAST REVISED: 09/23/2008  
 PRINT DATE: 03/14/2010

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
 ADDRESS: 820 E. 14th AVENUE  
 NORTH KANSAS CITY, MO 64116  
 PREPARED BY: CCP PRODUCT STEWARDSHIP  
 INFORMATION TELEPHONE:  
 COMPOSITES: 1-800-821-3590  
 POLYMERS: 1-800-488-5541

CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
 703-527-3887 (INTERNATIONAL)  
 FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\*\*\*  
 \*\*\* The percent by weight composition data given in Sections II \*\*\*  
 \*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
 \*\*\* formula values for each ingredient in the product. The data \*\*\*  
 \*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
 \*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
 \*\*\* batch concentrations will vary within limits consistent with \*\*\*  
 \*\*\* separately established product specifications. \*\*\*  
 \*\*\*\*\*

SECTION II INGREDIENTS

1  
 CAS# 000136-52-7  
 COBALT 2-ETHYLHEXANOATE, 12% COBALT  
 PCT BY WT: .0490  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
 CAS# 000080-62-6  
 METHYL METHACRYLATE  
 PCT BY WT: 10.0000 VAPOR PRESSURE: 29.000 MMHG @ 68F  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
 LD50, Oral: 7.9 G/KG (RAT)  
 LD50, Dermal: 35.5 G/KG (RABBIT)  
 LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

44.875

3  
 CAS# 000100-42-5  
 STYRENE MONOMER  
 PCT BY WT: 34.8790 VAPOR PRESSURE: 4.500 MMHG @ 68F  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
 ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (8 HR TWA)  
 OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
 OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
 LD50, Oral: 4.37 G/KG (RAT)  
 LD50, Dermal: >5 G/KG (RABBIT)

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 \* MATERIAL SAFETY DATA SHEET \*  
 \* 963XA220 \*  
 \*\*\*\*\*

OTHER: LCLO: 5000 PPM/8H (RAT)  
 OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
 IARC - Group 2B See Section V

-----  
 4  
 CAS# 112945-52-5  
 SILICA, AMORPHOUS  
 EPA CASN 7631-86-9  
 PCT BY WT: 1 - 5  
 EXPOSURE LIMIT:  
     ACGIH TLV/TWA: 10 MG/M3  
     OSHA PEL/TWA: 15 MG/M3-TOTAL DUST; 5 MG/M3-TOTAL RESPIRABLE DUST

-----  
 5 Y90-0002  
 UNSATURATED POLYESTER RESIN  
 ON TSCA INVENTORY CAS# PROPRIETARY  
 PCT BY WT: 50 - 60  
 EXPOSURE LIMIT:  
     ACGIH TLV/TWA: NONE ESTABLISHED  
     OSHA PEL/TWA: NONE ESTABLISHED

-----  
 \*\*\*\*\*  
 This product contains one or more reported carcinogens or suspected  
 carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
 subsection above under OTHER LIMITS.  
 \*\*\*\*\*  
 \*\*\*\*\*  
 This substance is classified as a hazardous air pollutant.  
 \*\*\*\*\*  
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SECTION III PHYSICAL DATA

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 Boiling Range: High- -N/A F Low- 212.0 F  
 Vapor Pressure: See Section II  
 Theoretical Weight per Gallon, Calculated: 8.7798 LB/GL  
 Theoretical Specific Gravity, Calculated: 1.055  
 Theoretical VOC, Calculated: 3.993 LB/GL  
 --If applicable, see Section X for further VOC information--  
 Physical State: LIQUID  
 Appearance: TRANSLUCENT  
 Odor: MODERATE AROMATIC  
 Odor Threshold: -N/A  
 pH: -N/A  
 Freezing Point: -N/A  
 Water Solubility: INSOLUBLE  
 Coefficient of Water/Oil Distribution: -N/A  
 Mechanical Impact Explosion: NO KNOWN HAZARD  
 Static Electricity Explosion: AVOID STATIC CHARGE  
 % HAP BY WEIGHT 44.890  
 % MONOMER BY WEIGHT 44.870

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 \* ArmorFlex \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 963XA220 \*  
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-----  
 SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
 For Flash Points 73 to 100 deg. F.  
 OSHA Flammability Classification: Class IC  
 DOT Flammability Classification: Flammable Liquid  
 Lower Flammable Limit in Air: Lower- 1.1 % by volume  
 DOT Shipping Name:  
 Flash Points 73 to 100 deg. F. = UN1866, RESIN SOLUTION, 3, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
 NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
 SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist,

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remove to fresh air. If swallowed, get medical attention immediately.  
Based on the presence of components (\*\*,03)

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene." An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. Lung effects have been observed in the mouse following repeated exposure to styrene.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATABILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.  
-----

SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.  
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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963XA220 \*  
\*\*\*\*\*

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .0490  
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METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 10.0000  
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STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 34.8790  
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\*\*\*\*\*  
COOK COMPOSITES AND POLYMERS CO.  
WARRANTIES, DISCLAIMERS AND LIMITATION OF LIABILITY (REV. 03/09)  
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Seller warrants that: (i) Buyer shall obtain good title to the product sold hereunder; (ii) at Shipment such product shall conform to Seller's specifications; and (iii) the sale or use of such product will not infringe the claims of any U.S. patent covering the product itself, but Seller does not warrant against infringement which might arise by the use of said product in any combination with other products or arising in the operation of any process. SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EVER IF THAT PURPOSE IS KNOWN TO SELLER. ANY APPLICATION INFORMATION OR ASSISTANCE WHICH SELLER MAY FURNISH TO BUYER IS GRATUITOUS AND SHALL IN NO WAY BE DEEMED PART OF THE SALE OF PRODUCT HEREUNDER OR A WARRANTY OF THE RESULTS OBTAINED THROUGH THE USE OF SUCH PRODUCT.

Without limiting the generality of the foregoing, if any product fails to meet warranties mentioned above, Seller shall at Seller's option either replace the nonconforming product at no cost to Buyer or refund Buyer the purchase price thereof. The foregoing is Buyer's sole and exclusive remedy for failure of Seller to deliver or supply product that meets the foregoing warranties. Seller's liability with respect to this contract and the product purchased under it shall not exceed the purchase price of the portion of such product as to which such liability arises. Seller shall not be liable for any injury, loss, or damage resulting from the handling or use of the product shipped hereunder whether in the manufacturing process or otherwise. In no event shall Seller be liable for special, incidental, or consequential damages including without limitations loss of profits, capital or business opportunity, downtime costs, or claims of customers or employees of Buyer. Failure to give Seller notice of any claim within thirty (30) days of shipment of the product concerned shall constitute a waiver of such claim by Buyer. Any product credit received by Buyer hereunder, if not used, shall automatically expire one (1) year from the date the credit was granted. Notwithstanding any applicable statute of limitations to the contrary, any action by Buyer in relation to a claim hereunder must be instituted no later than two (2) years after the occurrence of the event upon which the claim is based. All the foregoing limitations shall apply irrespective of whether Buyer's claim is based upon breach of contract, breach of warranty, negligence, strict liability, or any other legal theory.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorFlex  
 DESCRIPTION: MARINE CLEAR  
 PRODUCT CODE IDENTITY: 963XA221  
 NPCA HMIS RATING: H 2\* F 3 R. 2  
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
 ADDRESS: 820 E. 14th AVENUE  
 NORTH KANSAS CITY, MO 64116  
 CUSTOMER:

REVISION: 05  
 LAST REVISED : 11/08/2005  
 DATE OF ISSUE: 02/10/2008

PREPARED BY:  
 CCP PRODUCT STEWARDSHIP  
 INFORMATION TELEPHONE:  
 COMPOSITES: 1-800-821-3590  
 POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
 703-527-3887 (INTERNATIONAL)  
 FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
 CAS# 000136-52-7  
 COBALT 2-ETHYLHEXANOATE, 12% COBALT  
 PCT BY WT: .0490  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
 CAS# 000080-62-6  
 METHYL METHACRYLATE  
 PCT BY WT: 10.0000 VAPOR PRESSURE: 29.000 MMHG @ 68F  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
 LD50, Oral: 7.9 G/KG (RAT)  
 LD50, Dermal: 35.5 G/KG (RABBIT)  
 LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
 CAS# 000100-42-5  
 STYRENE MONOMER  
 PCT BY WT: 34.7290 VAPOR PRESSURE: 4.500 MMHG @ 68F  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)

44,73

ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)



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\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963XA221 \*  
\*\*\*\*\*

OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

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4 Y90-0002  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 50 - 60  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 8.7763 LB/GL  
Theoretical Specific Gravity, Calculated: 1.054  
Theoretical VOC, Calculated: 3.975 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: TRANSLUCENT  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: -N/A  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: -N/A  
Static Electricity Explosion: -N/A  
% HAP BY WEIGHT 44.760  
% MONOMER BY WEIGHT 44.720

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid

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 \* ArmorFlex \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 963XA221 \*  
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Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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 SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either

\*\*\*\*\*  
 \* ArmorFlex \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 963XA221 \*  
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humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene." An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. Lung effects have been observed in the mouse following repeated exposure to styrene.

#### METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

#### SECTION VI REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

#### CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

#### INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

#### SECTION VII SPILL OR LEAK PROCEDURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

#### WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

#### SECTION VIII SPECIAL PROTECTION INFORMATION

#### RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

#### VENTILATION:

Provide general clean air dilution or local exhaust ventilation in

\*\*\*\*\*  
\* ArmorFlex \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 963XA221 \*  
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volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .0490  
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METHYL METHACRYLATE

\*\*\*\*\*  
\* ArmorFlex \*

MATERIAL SAFETY DATA SHEET

\* 963XA221 \*

\*\*\*\*\*  
CAS# 000080-62-6 PCT BY WT: 10.0000

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STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 34.7290  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR  
DESCRIPTION: HAP40 BLACK VE TOOLING  
PRODUCT CODE IDENTITY: 965BK183  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 03  
LAST REVISED : 06/21/2007  
DATE OF ISSUE: 07/23/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.\*\*\*

SECTION II INGREDIENTS

1 VINYL ESTER RESIN  
PCT BY WT: 40 - 50  
EXPOSURE LIMIT:

2  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0530  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1110  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

4  
CAS# 025013-15-4  
VINYL TOLUENE  
PCT BY WT: 3.0800 VAPOR PRESSURE: 1.100 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 50 PPM (240 MG/CU.M.)  
ACGIH TLV/STEL: 100 PPM (480 MG/CU.M.)

OSHA PEL/TWA: 100 PPM (480 MG/CU.M.)

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5  
CAS# 000100-42-5



\*\*\*\*\*  
\* POLYCOR  
\* MATERIAL SAFETY DATA SHEET  
\* 965BK183  
\*\*\*\*\*

STYRENE MONOMER

PCT BY WT: 35.8440 VAPOR PRESSURE: 4.500 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:

IARC - Group 2B See Section V

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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 1 - 5

EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY

CAS# PROPRIETARY

PCT BY WT: 5 - 10

EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.2259 LB/GL  
Theoretical Specific Gravity, Calculated: 1.108  
Theoretical VOC, Calculated: 3.776 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLACK  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD

\*\*\*\*\*  
\* POLYCOR  
\* MATERIAL SAFETY DATA SHEET  
\* 965BK183  
\*\*\*\*\*

Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 36.550  
% MONOMER BY WEIGHT 38.920

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

\*\*\*\*\*  
\* POLYCOR  
\* MATERIAL SAFETY DATA SHEET  
\* 965BK183  
\*\*\*\*\*

Preexisting eye, skin, liver, kidney and respiratory disorders.  
EMERGENCY AND FIRST AID PROCEDURES:  
In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:  
WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:  
STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."  
An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.  
Lung effects have been observed in the mouse following repeated exposure to styrene.

VINYL TOLUENE  
Extended overexposure to vinyl toluene can cause damage to kidneys and liver.

TOLUHYDROQUINONE  
Toluhydroquinone is moderately toxic and may be harmful if ingested or inhaled. The dust is irritating to the eyes and respiratory system. No chronic effects are known. Ingestion is expected to be minimal under normal industrial conditions and handling. Spills of liquids containing toluhydroquinone should be cleaned up thoroughly and immediately to avoid creation of dust. WARNING: Airborne dust can form an explosive mixture in air.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:  
Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):  
Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

\*\*\*\*\*  
\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 965BK183 \*  
\*\*\*\*\*

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.  
WASTE DISPOSAL METHOD:  
Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:  
Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:  
Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:  
Use solvent impermeable gloves to avoid contact with product.  
EYE PROTECTION:  
Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:  
Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

\*\*\*\*\*  
\* POLYCOR \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 965BK183 \*  
\*\*\*\*\*

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0530

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COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1110  
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STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 35.8440  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorGuard  
DESCRIPTION: BLACK BARRIER COAT  
PRODUCT CODE IDENTITY: 967BJ244  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 02  
LAST REVISED : 01/08/2004  
DATE OF ISSUE: 02/06/2004  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 001333-86-4  
CARBON BLACK  
PCT BY WT: .1400  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 3.5 MG/CU.M.  
OSHA PEL/TWA: 3.5 MG/CU.M.  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

2  
CAS# 025013-15-4  
VINYL TOLUENE  
PCT BY WT: 4.0000 VAPOR PRESSURE: 1.100 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 50 PPM (240 MG/CU.M.)  
ACGIH TLV/STEL: 100 PPM (480 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (480 MG/CU.M.)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 31.7720 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)

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\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BJ244 \*  
\*\*\*\*\*

OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.5336 LB/GL  
Theoretical Specific Gravity, Calculated: 1.145  
Theoretical VOC, Calculated: 3.448 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLACK  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE

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\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BJ244 \*  
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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55  
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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.



\*\*\*\*\*  
\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BJ244 \*  
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CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

DIMETHYLANILINE

Although Dimethylaniline is not listed as a carcinogen by OSHA, NTP, IARC or ACGIH, it contains trace amounts of aniline which is listed by the State of California as a substance known to cause cancer. A report of a two year study of Dimethylaniline was published by NTP (TR 360, March 1989). The study demonstrated some evidence of carcinogenic activity of Dimethylaniline in male rats, equivocal evidence in female mice.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

CARBON BLACK

The IARC evaluation in Monograph 65 concluded that "there is sufficient evidence in experimental animals for the carcinogenicity of Carbon Black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans (Group 2B)". Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure.

Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

VINYL TOLUENE

Extended overexposure to vinyl toluene can cause damage to kidneys and liver.

COBALT COMPOUNDS

The International Agency for Research on Cancer (IARC) has classified

\*\*\*\*\*  
\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BJ244 \*  
\*\*\*\*\*

cobalt and cobalt compounds as Group 2B carcinogens. Group 2B carcinogens are possibly carcinogenic to humans. See IARC Monograph, Volume 52 for additional information.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, peroxides, strong acids, aluminum chloride and vinyl polymers  
HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes,

\*\*\*\*\*  
\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BJ244 \*  
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before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 31.7720

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE

\*\*\*\*\*  
\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BJ244 \*  
\*\*\*\*\*

TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

303-405

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ArmorGuard
DESCRIPTION: HAP33 BLACK BARRIER COAT
PRODUCT CODE IDENTITY: 967BK150
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 04
LAST REVISED: 05/07/2007
DATE OF ISSUE: 07/15/2007
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541
CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1610
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 025013-15-4
VINYL TOLUENE
PCT BY WT: 3.6870 VAPOR PRESSURE: 1.100 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 50 PPM (240 MG/CU.M.)
ACGIH TLV/STEL: 100 PPM (480 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (480 MG/CU.M.)

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 32.1360 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)

LD50, Oral:	4.37 G/KG (RAT)
LD50, Dermal:	>5 G/KG (RABBIT)
OTHER:	LCLo: 5000 PPM/8H (RAT)
OTHER (cont.):	NIOSH TWA: 50 PPM (215 MG/M3)
OTHER LIMITS:	

\*\*\*\*\*  
\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BK150 \*  
\*\*\*\*\*  
IARC - Group 2B See Section V  
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4  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
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5  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.7073 LB/GL  
Theoretical Specific Gravity, Calculated: 1.166  
Theoretical VOC, Calculated: 3.534 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLACK  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.285  
% MONOMER BY WEIGHT 35.822

\*\*\*\*\*  
\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BK150 \*  
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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.



\*\*\*\*\*  
\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BK150 \*  
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CALIFORNIA PROPOSITION 65 INFORMATION:  
WARNING - This product contains a chemical(s) known to the State of  
California to cause cancer.

OTHER HEALTH HAZARDS:  
STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene." An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC  
Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

VINYL TOLUENE  
Extended overexposure to vinyl toluene can cause damage to kidneys and liver.

HYDROQUINONE  
Chronic exposure to Hydroquinone at higher levels has caused brownish discoloration of the cornea and conjunctiva and distortion of the cornea, in some cases leading to decreased visual acuity and blindness. Hydroquinone may cause allergic skin reaction and is moderately toxic if ingested or inhaled. Spills of liquids contain Hydroquinone should be cleaned up thoroughly and immediately to avoid creation of dust. Dust in the air may cause eye injury or form an explosive mixture in air

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:  
Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.  
INCOMPATIBILITY (MATERIALS TO AVOID):  
Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BK150 \*  
\*\*\*\*\*

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

\*\*\*\*\*  
\* ArmorGuard \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 967BK150 \*  
\*\*\*\*\*

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1610

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STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 32.1360  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

Repair

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: PATCHAID
DESCRIPTION: PATCHAID
PRODUCT CODE IDENTITY: 970XJ037
NPCA HMIS RATING: H 2\* F 3 R 2

REVISION: 08
LAST REVISED : 04/17/2006
DATE OF ISSUE: 02/09/2007

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116

PREPARED BY:
HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 027253-31-2
COBALT NEODECANOATE, 26% COBALT
PCT BY WT: .0200
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .0700
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 57.3980 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
LD50, Oral: 4.37 G/KG (RAT)

LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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\* PATCHAID \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 970XJ037 \*  
\*\*\*\*\*

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4  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY AND CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 30 - 40  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
-----

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 8.5578 LB/GL  
Theoretical Specific Gravity, Calculated: 1.028  
Theoretical VOC, Calculated: 4.991 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: TRANSLUCENT  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: -N/A  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: -N/A  
Static Electricity Explosion: -N/A  
% HAP BY WEIGHT 57.470  
% MONOMER BY WEIGHT 57.390  
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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
RESIN SOLUTION, 3, UN1866, PG III

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\* PATCHAID \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 970XJ037 \*  
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Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:  
Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:  
Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:  
Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:  
May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.  
Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:  
In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:  
WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:  
STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association



\*\*\*\*\*  
\* PATCHAID \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 970XJ037 \*  
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between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."  
An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.  
Lung effects have been observed in the mouse following repeated exposure to styrene.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

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\* PATCHAID \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 970XJ037 \*  
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PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

-----  
SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0200

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .0700

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 57.3980  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

\*\*\*\*\*  
\* PATCHAID \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 970XJ037 \*  
\*\*\*\*\*

at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 MOONBEAM  
PRODUCT CODE IDENTITY: 991AK138  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 04  
LAST REVISED : 07/07/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1230  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 6.1720 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 24.6570 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)

30.0

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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 5.7150  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA

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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.6129 LB/GL

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Theoretical Specific Gravity, Calculated: 1.275  
Theoretical VOC, Calculated: 3.368 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: GRAY  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.940  
% MONOMER BY WEIGHT 30.822

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

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EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.



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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1230

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 6.1720

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 24.6570

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the

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replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE
DESCRIPTION: HP33 MARBLE
PRODUCT CODE IDENTITY: 991AK139
NPCA HMIS RATING: H 2\* F 3 R 2
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
CUSTOMER: NORTH KANSAS CITY, MO 64116
REVISION: 01
LAST REVISED: 07/07/2004
DATE OF ISSUE: 11/01/2005
PREPARED BY: HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1300
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 6.2800 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

32.0

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 25.7250 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLo: 5000 PPM/8H (RAT)

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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 2.9480  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.4231 LB/GL

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Theoretical Specific Gravity, Calculated: 1.252  
Theoretical VOC, Calculated: 3.433 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: GRAY  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.119  
% MONOMER BY WEIGHT 31.999

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.  
ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991AK139 \*  
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EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.



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\* MATERIAL SAFETY DATA SHEET \*  
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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991AK139 \*  
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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1300

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 6.2800

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 25.7250

-----  
\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
-----

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the

\*\*\*\*\*  
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\*\*\*\*\*

replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 CHARCOAL  
PRODUCT CODE IDENTITY: 991AK140  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 02  
LAST REVISED : 08/04/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1350  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 6.3340 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 26.4330 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)

29.8

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\* ARMORCOTE  
\* MATERIAL SAFETY DATA SHEET  
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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
-----

5  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)  
-----

6  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
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7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.2818 LB/GL  
Theoretical Specific Gravity, Calculated: 1.235  
Theoretical VOC, Calculated: 3.471 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: GRAY  
Odor: MODERATE AROMATIC

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Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.882  
% MONOMER BY WEIGHT 32.760

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:  
EYE CONTACT:  
Irritation. Symptoms are tearing, redness and discomfort.  
SKIN CONTACT:  
Irritation. Can cause defatting of skin which may lead to dermatitis.  
INHALATION:  
Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache

\*\*\*\*\*  
\* ARMORCOTE \*  
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or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

\*\*\*\*\*  
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INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers



\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991AK140 \*  
\*\*\*\*\*

may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1350

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 6.3340

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 26.4330  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HAP33 PITCH  
PRODUCT CODE IDENTITY: 991BK136  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 02  
LAST REVISED : 03/15/2005  
DATE OF ISSUE: 04/29/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.\*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0290  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1260  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.8400 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 26.7070 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

26.707  
5.840  

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32.5

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991BK136 \*  
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ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:

IARC - Group 2B See Section V

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5

CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6

CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

-----  
7

CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
8

UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY  
PCT BY WT: 1 - 5

CAS# PROPRIETARY

EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
9

UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 30 - 40

EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991BK136 \*  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.1485 LB/GL  
Theoretical Specific Gravity, Calculated: 1.219  
Theoretical VOC, Calculated: 3.446 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLACK  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.658  
% MONOMER BY WEIGHT 32.541

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991BK136 \*  
\*\*\*\*\*  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55  
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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.



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Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
-----

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.

Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

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EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0290

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1260

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 5.8400

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 26.7070

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications

at the time of shipment. Seller's specifications may be subject to change

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991BK136 \*  
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at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE
DESCRIPTION: HP33 BLACK
PRODUCT CODE IDENTITY: 991BK139
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 01
LAST REVISED : 09/30/2004
DATE OF ISSUE: 11/01/2005
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1300
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 9.3180 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

32.6

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 23.2910 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLo: 5000 PPM/8H (RAT)

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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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6  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.4302 LB/GL  
Theoretical Specific Gravity, Calculated: 1.253  
Theoretical VOC, Calculated: 3.527 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLACK  
Odor: MODERATE AROMATIC

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Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.758  
% MONOMER BY WEIGHT 32.606

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache

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or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.



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INCOMPATIBILITY (MATERIALS TO AVOID):  
Oxidizers, reducing agents, peroxides, strong acids, bases, UV light,  
or any source of free radicals and mild steel.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Thermal decomposition or combustion can produce fumes containing organic  
acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Remove all sources of ignition (flames, hot surfaces, and electrical,  
static, or frictional sparks). Avoid breathing vapors. Ventilate area.  
Contain and remove with inert absorbent and non-sparking tools.  
WASTE DISPOSAL METHOD:  
Dispose of in accordance with local, state and federal regulations. Do  
not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:  
Do not breathe or ingest vapors, spray mist or dust while applying,  
sanding, grinding, or sawing cured product. Wear an appropriate,  
properly fitted respirator (NIOSH/MSHA approved) during application and  
other use of this product until vapors, mists and dusts are exhausted,  
unless air monitoring demonstrates vapor, mist and dust levels are below  
applicable limits. Follow respirator manufacturer's directions for  
respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:  
Provide general clean air dilution or local exhaust ventilation in  
volume and pattern to keep the air contaminant concentration below the  
lower explosion limit and below current applicable exposure limits in  
the mixing, application and curing areas; and to remove decomposition  
product during welding and flame cutting on surfaces coated with this  
product. In confined areas, use only with forced ventilation adequate  
to keep vapor concentration below 20% of lower explosion limits. Refer  
to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work  
area and all ignition sources (nonexplosion-proof motors, etc.)  
should be eliminated.

PROTECTIVE GLOVES:  
Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:  
Do not get in eyes. Use safety eyewear with splash guards or side  
shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with  
contaminated clothing. Wash contaminated clothing, including shoes,  
before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Do not store above 100 deg. F. Store large quantities in buildings  
designed to comply with OSHA 1910.106. Keep away from heat, sparks and  
flame. Keep containers closed when not in use and upright to prevent  
leakage.

OTHER PRECAUTIONS:  
Containers should be grounded when pouring. Do not take internally.  
Wash hands after using and before smoking or eating. Emptied containers

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\* MATERIAL SAFETY DATA SHEET \*  
\* 991BK139 \*  
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may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.  
KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1300

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 9.3180

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 23.2910  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HAP33 POLO GREEN  
PRODUCT CODE IDENTITY: 991GH359  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 03  
LAST REVISED : 04/26/2006  
DATE OF ISSUE: 04/15/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 001345-16-0  
COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)  
PCT BY WT: 1.2760  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)  
LD50, Oral: >10 G/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
OTHER: ACGIH TLV/TWA: 10 MG/CU.M. AS MOLYBEDUM & SILICA  
OTHER (cont.): OSHA PEL/TWA: 10MG/CU.M. -MOLYBEDUM; 6MG/CU.M. -SILICA

2  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0270  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1190  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

---

4

CAS# 000080-62-6  
METHYL METHACRYLATE

\*\*\*\*\*  
\* ARMORCOTE  
\* MATERIAL SAFETY DATA SHEET  
\* 991GH359  
\*\*\*\*\*

PCT BY WT: 5.5440 VAPOR PRESSURE: 29.000 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

5  
CAS# 000100-42-5  
STYRENE MONOMER

PCT BY WT: 27.2080 VAPOR PRESSURE: 4.500 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:

IARC - Group 2B See Section V

6  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)

PCT BY WT: 10 - 20

EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

7  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY

PCT BY WT: 5 - 10

EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

8  
CAS# 068611-44-9  
SILICA, AMORPHOUS

PCT BY WT: 1 - 5

EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY

CAS# PROPRIETARY

*Handwritten notes:*  
97.208  
5.544  
32.75  
MMA

PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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10  
UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 30 - 40  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.2219 LB/GL  
Theoretical Specific Gravity, Calculated: 1.228  
Theoretical VOC, Calculated: 3.505 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: GREEN  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.853  
% MONOMER BY WEIGHT 32.746  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of  
violent rupture of the container. Vapors are uninhibited and may form  
polymers in vents or flame arrestors of storage tanks resulting in  
stoppage of vents. Vapors may cause flash fire. Keep containers  
tightly closed and isolate from heat, electrical equipment, sparks and

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991GH359 \*  
\*\*\*\*\*

flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure



\*\*\*\*\*  
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\*\*\*\*\*

to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

COBALT COMPOUNDS

The International Agency for Research on Cancer (IARC) has classified cobalt and cobalt compounds as Group 2B carcinogens. Group 2B carcinogens are possibly carcinogenic to humans. See IARC Monograph, Volume 52 for additional information.

-----  
SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991GH359 \*  
\*\*\*\*\*

respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

-----  
SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991GH359 \*  
\*\*\*\*\*

CAS# 001345-16-0 PCT BY WT: 1.2760

-----  
COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0270

-----  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1190

-----  
METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 5.5440

-----  
STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 27.2080

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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HAP33 BRITE GREEN  
PRODUCT CODE IDENTITY: 991GH369  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 03  
LAST REVISED : 04/26/2006  
DATE OF ISSUE: 04/15/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0270  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1200  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.6240 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 26.8860 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

26.886  
5.624  

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32.51

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991GH369 \*  
\*\*\*\*\*

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
9  
UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 30 - 40  
EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
-----

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

-----  
SECTION III PHYSICAL DATA  
-----

\*\*\*\*\*  
\* ARMORCOTE  
\* MATERIAL SAFETY DATA SHEET  
\* 991GH369  
\*\*\*\*\*

Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.1950 LB/GL  
Theoretical Specific Gravity, Calculated: 1.225  
Theoretical VOC, Calculated: 3.467 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: GREEN  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.612  
% MONOMER BY WEIGHT 32.504

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:



\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991GH369 \*  
\*\*\*\*\*  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55  
-----

SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.

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\* ARMORCOTE \*  
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\* 991GH369 \*  
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Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

**METHYL METHACRYLATE**

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.  
Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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**SECTION VI REACTIVITY DATA**  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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**SECTION VII SPILL OR LEAK PROCEDURES**  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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**SECTION VIII SPECIAL PROTECTION INFORMATION**  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

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EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0270

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1200

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 5.6240

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 26.8860

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications

at the time of shipment. Seller's specifications may be subject to change

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991GH369 \*  
\*\*\*\*\*

at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE
DESCRIPTION: HP33 VAPOR BLUE
PRODUCT CODE IDENTITY: 991LK123
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 01
LAST REVISED : 07/07/2004
DATE OF ISSUE: 11/01/2005
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541
CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1240
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 5.9810 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 24.5550 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLO: 5000 PPM/8H (RAT)

30.5

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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 2.5570  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected



carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.

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This substance is classified as a hazardous air pollutant.

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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.4075 LB/GL  
Theoretical Specific Gravity, Calculated: 1.250  
Theoretical VOC, Calculated: 3.299 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLUE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.654  
% MONOMER BY WEIGHT 30.530

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

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ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure

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to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.  
Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991LK123 \*  
\*\*\*\*\*

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1240

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 5.9810

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 24.5550

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product

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\* 991LK123 \*  
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or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 MIDNIGHT BLUE  
PRODUCT CODE IDENTITY: 991LK141  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 09/30/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 001345-16-0  
COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)  
PCT BY WT: 2.7100  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)  
LD50, Oral: >10 G/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
OTHER: ACGIH TLV/TWA: 10 MG/CU.M. AS MOLYBEDUM & SILICA  
OTHER (cont.): OSHA PEL/TWA: 10MG/CU.M. -MOLYBEDUM; 6MG/CU.M. -SILICA

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1260  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 9.0670 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

\*\*\*\*\*  
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4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 22.6570 VAPOR PRESSURE: 4.500 MMHG @ 68F

EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

22.6570  
9.067  
-----  
31.72

5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20

EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II

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Theoretical Weight per Gallon, Calculated: 10.6419 LB/GL  
Theoretical Specific Gravity, Calculated: 1.279  
Theoretical VOC, Calculated: 3.497 LB/GL  
--If applicable , see Section X for further VOC information--

Physical State: LIQUID  
Appearance: BLUE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 31.870  
% MONOMER BY WEIGHT 31.722

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash;

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it is also a potential skin sensitizer.  
Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

COBALT COMPOUNDS

The International Agency for Research on Cancer (IARC) has classified cobalt and cobalt compounds as Group 2B carcinogens. Group 2B carcinogens are possibly carcinogenic to humans. See IARC Monograph, Volume 52 for additional information.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

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EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)

CAS# 001345-16-0 PCT BY WT: 2.7100

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1260

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 9.0670

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 22.6570

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991LK141 \*  
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at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

406-504

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE
DESCRIPTION: HP33 DARK BLUE
PRODUCT CODE IDENTITY: 991LK142
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 01
LAST REVISED : 09/30/2004
DATE OF ISSUE: 11/01/2005
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
CUSTOMER:
PREPARED BY:
HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 001345-16-0
COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)
PCT BY WT: 3.4040
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)
LD50, Oral: >10 G/KG (RAT)
LD50, Dermal: NOT AVAILABLE
LC50, Inhalation: NOT AVAILABLE
OTHER: ACGIH TLV/TWA: 10 MG/CU.M. AS MOLYBEDUM & SILICA
OTHER (cont.): OSHA PEL/TWA: 10MG/CU.M. -MOLYBEDUM; 6MG/CU.M. -SILICA

2
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1270
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 9.1150 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

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\* MATERIAL SAFETY DATA SHEET  
\* 991LK142  
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4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 22.7800 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

22.780  
9.115  
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31.895

5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 10.0080  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II

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\* 991LK142 \*  
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Theoretical Weight per Gallon, Calculated: 10.6868 LB/GL  
Theoretical Specific Gravity, Calculated: 1.284  
Theoretical VOC, Calculated: 3.525 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLUE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.039  
% MONOMER BY WEIGHT 31.892

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991LK142 \*  
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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash;

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991LK142 \*  
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it is also a potential skin sensitizer.  
Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

COBALT COMPOUNDS

The International Agency for Research on Cancer (IARC) has classified cobalt and cobalt compounds as Group 2B carcinogens. Group 2B carcinogens are possibly carcinogenic to humans. See IARC Monograph, Volume 52 for additional information.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991LK142 \*  
\*\*\*\*\*

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)  
CAS# 001345-16-0 PCT BY WT: 3.4040

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1270

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 9.1150

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 22.7800

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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991LK142 \*  
\*\*\*\*\*

at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HAP33 BROWN  
PRODUCT CODE IDENTITY: 991NH788  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 03/03/2006  
DATE OF ISSUE: 03/05/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.\*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0300  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1300  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 6.2340 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 25.590 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

25.59  
6.224  
-----  
31.83



\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991NH788 \*  
\*\*\*\*\*

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

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5  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 2.4140  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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7  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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8  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:

CAS# PROPRIETARY

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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10

UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY  
PCT BY WT: 1 - 5

CAS# PROPRIETARY

EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*

UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 30 - 40  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*  
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SECTION III PHYSICAL DATA

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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.4289 LB/GL  
Theoretical Specific Gravity, Calculated: 1.253  
Theoretical VOC, Calculated: 3.450 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BROWN  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 31.945  
% MONOMER BY WEIGHT 31.827  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.

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\* 991NH788 \*  
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UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

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\* 991NH788 \*  
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An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.  
Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991NH788 \*  
\*\*\*\*\*

applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

-----  
SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991NH788 \*  
\*\*\*\*\*

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0300

-----  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1300  
-----

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 6.2340  
-----

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 25.5990  
-----

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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
\*\*\*\*\*  
-----

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 LIGHT GRAPHITE  
PRODUCT CODE IDENTITY: 991NK123  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 07/07/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1220  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 6.0690 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 24.3740 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)

30,44



\*\*\*\*\*  
\* ARMORCOTE  
\* MATERIAL SAFETY DATA SHEET  
\* 991NK123  
\*\*\*\*\*

OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 5.0410  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected

carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.

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This substance is classified as a hazardous air pollutant.

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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.6148 LB/GL  
Theoretical Specific Gravity, Calculated: 1.275  
Theoretical VOC, Calculated: 3.335 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: TAN  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.556  
% MONOMER BY WEIGHT 30.437

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

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ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure

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to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

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Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.  
OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:  
Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.  
KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:  
The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:  
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1220

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 6.0690

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 24.3740

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product

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\* 991NK123 \*  
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or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 PLATINUM  
PRODUCT CODE IDENTITY: 991NK124  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 07/07/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1200  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 6.0950 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 24.0450 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)

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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 7.0090  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.7099 LB/GL

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Theoretical Specific Gravity, Calculated: 1.287  
Theoretical VOC, Calculated: 3.326 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: TAN  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.250  
% MONOMER BY WEIGHT 30.134

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55  
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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

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\* ARMORCOTE \*  
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\* 991NK124 \*  
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EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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\* 991NK124 \*  
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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an acceler-  
ator such as cobalt drier is to be added, mix this accelerator with base  
material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light,  
or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic  
acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical,  
static, or frictional sparks). Avoid breathing vapors. Ventilate area.  
Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do  
not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying,  
sanding, grinding, or sawing cured product. Wear an appropriate,  
properly fitted respirator (NIOSH/MSHA approved) during application and  
other use of this product until vapors, mists and dusts are exhausted,  
unless air monitoring demonstrates vapor, mist and dust levels are below  
applicable limits. Follow respirator manufacturer's directions for  
respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in  
volume and pattern to keep the air contaminant concentration below the  
lower explosion limit and below current applicable exposure limits in  
the mixing, application and curing areas; and to remove decomposition  
product during welding and flame cutting on surfaces coated with this  
product. In confined areas, use only with forced ventilation adequate  
to keep vapor concentration below 20% of lower explosion limits. Refer  
to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work  
area and all ignition sources (nonexplosion-proof motors, etc.)  
should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side  
shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with  
contaminated clothing. Wash contaminated clothing, including shoes,  
before reuse.

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\* MATERIAL SAFETY DATA SHEET \*  
\* 991NK124 \*  
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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1200

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 6.0950

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 24.0450

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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the

\*\*\*\*\*  
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\* MATERIAL SAFETY DATA SHEET \*  
\* 991NK124 \*  
\*\*\*\*\*

replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 SANDSTONE  
PRODUCT CODE IDENTITY: 991NK125  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 07/07/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1260  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 6.1230 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 24.8850 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)

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\* 991NK125  
\*\*\*\*\*

OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 3.7740  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected

carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.

\*\*\*\*\*  
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This substance is classified as a hazardous air pollutant.

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\* 991NK125 \*  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.5435 LB/GL  
Theoretical Specific Gravity, Calculated: 1.267  
Theoretical VOC, Calculated: 3.372 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: TAN  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 31.121  
% MONOMER BY WEIGHT 31.002

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

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\* 991NK125 \*  
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ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure

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to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

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Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.  
OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.  
OTHER PRECAUTIONS:  
Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.  
KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:  
The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

-----  
SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:  
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1260  
-----  
METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 6.1230  
-----  
STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 24.8850  
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DISCLAIMER AND LIMITATION OF LIABILITY  
-----

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product

\*\*\*\*\*  
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\* MATERIAL SAFETY DATA SHEET \*  
\* 991NK125 \*  
\*\*\*\*\*

or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 SUEDE  
PRODUCT CODE IDENTITY: 991NK130  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 02  
LAST REVISED : 08/30/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1220  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.9040 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

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3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 24.0760 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)



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\* MATERIAL SAFETY DATA SHEET \*  
\* 991NK130 \*  
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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 3.2690  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected

carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.

\*\*\*\*\*  
\*\*\*\*\*

This substance is classified as a hazardous air pollutant.

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\* ARMORCOTE \*  
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\* 991NK130 \*  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.5738 LB/GL  
Theoretical Specific Gravity, Calculated: 1.270  
Theoretical VOC, Calculated: 3.289 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: TAN  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.094  
% MONOMER BY WEIGHT 29.973

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

\*\*\*\*\*  
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\* 991NK130 \*  
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ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure

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to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

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\* MATERIAL SAFETY DATA SHEET \*  
\* 991NK130 \*  
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Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1220

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 5.9040

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 24.0760

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991NK130 \*  
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or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HAP33 BLACK IRIS  
PRODUCT CODE IDENTITY: 991PK105  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 05/24/2005  
DATE OF ISSUE: 07/23/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0220  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1390  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 6.8080 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)



4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 24.4120 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:

24.412  
~~6.800~~  
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31.22

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ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)

OTHER LIMITS:  
IARC - Group 2B See Section V

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5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:

CAS# PROPRIETARY

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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9  
UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 30 - 40  
EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.3741 LB/GL  
Theoretical Specific Gravity, Calculated: 1.246  
Theoretical VOC, Calculated: 3.405 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: PURPLE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 31.407  
% MONOMER BY WEIGHT 31.213

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991PK105 \*  
\*\*\*\*\*  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55  
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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.

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Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.

Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

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\* 991PK105  
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EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0220

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1390

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 6.8080

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 24.4120

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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications



at the time of shipment. Seller's specifications may be subject to change

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\* 991PK105 \*  
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at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 RUBEN  
PRODUCT CODE IDENTITY: 991RK111  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 07/07/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
CUSTOMER: INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1200  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.5700 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 25.3770 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)

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\*\*\*\*\*

OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
4  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST);10MG/M3 (TOTAL DUST)

-----  
6  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST);5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST);5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.2003 LB/GL  
Theoretical Specific Gravity, Calculated: 1.225  
Theoretical VOC, Calculated: 3.297 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: RED  
Odor: MODERATE AROMATIC

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Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 31.067  
% MONOMER BY WEIGHT 30.941

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache

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\*\*\*\*\*

or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

-----  
SECTION VI REACTIVITY DATA  
-----

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

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\*\*\*\*\*

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F.. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers

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\* 991RK111 \*  
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may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.  
KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:  
The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:  
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1200

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METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 5.5700  
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STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 25.3770  
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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.  
The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.



MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 REGAL  
PRODUCT CODE IDENTITY: 991RK112  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 07/08/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1200  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.6170 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 25.4330 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)

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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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6  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
7  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.2402 LB/GL  
Theoretical Specific Gravity, Calculated: 1.230  
Theoretical VOC, Calculated: 3.314 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: RED  
Odor: MODERATE AROMATIC

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Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 31.168  
% MONOMER BY WEIGHT 31.044

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:  
EYE CONTACT:  
Irritation. Symptoms are tearing, redness and discomfort.  
SKIN CONTACT:  
Irritation. Can cause defatting of skin which may lead to dermatitis.  
INHALATION:  
Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache

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\* 991RK112 \*  
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or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

-----  
SECTION VI REACTIVITY DATA  
-----

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

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\* MATERIAL SAFETY DATA SHEET \*  
\* 991RK112 \*  
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INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991RK112 \*  
\*\*\*\*\*

may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.  
KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1200

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 5.6170

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 25.4330  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 SANGRIA  
PRODUCT CODE IDENTITY: 991RK118  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 08/20/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 001345-16-0  
COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)  
PCT BY WT: 2.9420  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)  
LD50, Oral: >10 G/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
OTHER: ACGIH TLV/TWA: 10 MG/CU.M. AS MOLYBEDUM & SILICA  
OTHER (cont.): OSHA PEL/TWA: 10MG/CU.M. -MOLYBEDUM; 6MG/CU.M. -SILICA

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1190  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.5490 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

\*\*\*\*\*  
\* ARMORCOTE  
\* MATERIAL SAFETY DATA SHEET  
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\*\*\*\*\*

4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 25.2790 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

*25.279*  
*5.549*  
*30.8*

5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*



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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II

\*\*\*\*\*  
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Theoretical Weight per Gallon, Calculated: 10.4271 LB/GL  
Theoretical Specific Gravity, Calculated: 1.253  
Theoretical VOC, Calculated: 3.349 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: RED  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.944  
% MONOMER BY WEIGHT 30.821

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

\*\*\*\*\*  
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SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash;

\*\*\*\*\*  
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it is also a potential skin sensitizer.  
Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

COBALT COMPOUNDS

The International Agency for Research on Cancer (IARC) has classified cobalt and cobalt compounds as Group 2B carcinogens. Group 2B carcinogens are possibly carcinogenic to humans. See IARC Monograph, Volume 52 for additional information.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991RK118 \*  
\*\*\*\*\*

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)  
CAS# 001345-16-0 PCT BY WT: 2.9420

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1190

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 5.5490

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 25.2790

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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991RK118 \*  
\*\*\*\*\*

at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 HOT PINK  
PRODUCT CODE IDENTITY: 991RK124  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 06/06/2005  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1430  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 7.1170 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 24.2880 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)

31.4

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\* 991RK124 \*  
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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 1.8760  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected



carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.

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This substance is classified as a hazardous air pollutant.

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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.4925 LB/GL  
Theoretical Specific Gravity, Calculated: 1.261  
Theoretical VOC, Calculated: 3.386 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: PINK  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 31.588  
% MONOMER BY WEIGHT 31.403

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

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ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure

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to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

CARBON BLACK

The IARC evaluation in Monograph 65 concluded that "there is sufficient evidence in experimental animals for the carcinogenicity of Carbon Black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans (Group 2B)". Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure.

Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in

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volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY  
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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1430  
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METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 7.1170

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STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 24.2880  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

505-606

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE
DESCRIPTION: HP33 WHITE
PRODUCT CODE IDENTITY: 991WH423
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 08
LAST REVISED: 02/28/2005
DATE OF ISSUE: 11/01/2005
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541
CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1400
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 6.5000 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

32.86

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 26.3630 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLO: 5000 PPM/8H (RAT)

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OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 19.3200  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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7  
UNSATURATED POLYESTER  
ON TSCA INVENTORY/ON CANADIAN NDSL CAS# PROPRIETARY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 11.0147 LB/GL  
Theoretical Specific Gravity, Calculated: 1.323  
Theoretical VOC, Calculated: 3.696 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: WHITE  
Odor: MODERATE AROMATIC



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Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.959  
% MONOMER BY WEIGHT 32.859

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache

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or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.  
Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

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INCOMPATIBILITY (MATERIALS TO AVOID):  
Oxidizers, reducing agents, peroxides, strong acids, bases, UV light,  
or any source of free radicals and mild steel.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Thermal decomposition or combustion can produce fumes containing organic  
acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Remove all sources of ignition (flames, hot surfaces, and electrical,  
static, or frictional sparks). Avoid breathing vapors. Ventilate area.  
Contain and remove with inert absorbent and non-sparking tools.  
WASTE DISPOSAL METHOD:  
Dispose of in accordance with local, state and federal regulations. Do  
not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:  
Do not breathe or ingest vapors, spray mist or dust while applying,  
sanding, grinding, or sawing cured product. Wear an appropriate,  
properly fitted respirator (NIOSH/MSHA approved) during application and  
other use of this product until vapors, mists and dusts are exhausted,  
unless air monitoring demonstrates vapor, mist and dust levels are below  
applicable limits. Follow respirator manufacturer's directions for  
respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:  
Provide general clean air dilution or local exhaust ventilation in  
volume and pattern to keep the air contaminant concentration below the  
lower explosion limit and below current applicable exposure limits in  
the mixing, application and curing areas; and to remove decomposition  
product during welding and flame cutting on surfaces coated with this  
product. In confined areas, use only with forced ventilation adequate  
to keep vapor concentration below 20% of lower explosion limits. Refer  
to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work  
area and all ignition sources (nonexplosion-proof motors, etc.)  
should be eliminated.

PROTECTIVE GLOVES:  
Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:  
Do not get in eyes. Use safety eyewear with splash guards or side  
shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with  
contaminated clothing. Wash contaminated clothing, including shoes,  
before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Do not store above 100 deg. F. Store large quantities in buildings  
designed to comply with OSHA 1910.106. Keep away from heat, sparks and  
flame. Keep containers closed when not in use and upright to prevent  
leakage.

OTHER PRECAUTIONS:  
Containers should be grounded when pouring. Do not take internally.  
Wash hands after using and before smoking or eating. Emptied containers

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\* 991WH423 \*  
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may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1400  
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METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 6.5000  
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STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 26.3630  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE
DESCRIPTION: HP33 CALIFORNIA YELLOW
PRODUCT CODE IDENTITY: 991YK125
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 02
LAST REVISED : 04/08/2005
DATE OF ISSUE: 11/01/2005
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: HAZARD COMMUNICATION DEPT.
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1250
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 6.1740 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

30.6

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 24.4620 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLo: 5000 PPM/8H (RAT)

\*\*\*\*\*  
\* ARMORCOTE  
\* MATERIAL SAFETY DATA SHEET  
\* 991YK125  
\*\*\*\*\*

OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 1.0860  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
-----

5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
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6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)  
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7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
ON TSCA INVENTORY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE  
-----

8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.3328 LB/GL

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK125 \*  
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Theoretical Specific Gravity, Calculated: 1.241  
Theoretical VOC, Calculated: 3.302 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: YELLOW  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.827  
% MONOMER BY WEIGHT 30.634

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:



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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK125 \*  
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EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK125 \*  
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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK125 \*  
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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1250

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 6.1740

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 24.4620  
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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
-----

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK125 \*  
\*\*\*\*\*

replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE  
DESCRIPTION: HP33 HOT ORANGE  
PRODUCT CODE IDENTITY: 991YK132  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 01  
LAST REVISED : 08/20/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1170  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000080-62-6  
METHYL METHACRYLATE  
PCT BY WT: 5.5750 VAPOR PRESSURE: 29.000 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
LD50, Oral: 7.9 G/KG (RAT)  
LD50, Dermal: 35.5 G/KG (RABBIT)  
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 25.0280 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)

30.6

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK132 \*  
\*\*\*\*\*

OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

-----  
4  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 1.7750  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
5  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
6  
CAS# 021645-51-2  
ALUMINA TRIHYDRATE  
ON TSCA INVENTORY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/M3 (TOTAL DUST)  
OSHA PEL/TWA: 5 MG/M3 (RESPIRABLE DUST); 10MG/M3 (TOTAL DUST)

-----  
7  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1.0040  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

-----  
8  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
9  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected

carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.

\*\*\*\*\*  
\*\*\*\*\*

This substance is classified as a hazardous air pollutant.

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK132 \*  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 10.3115 LB/GL  
Theoretical Specific Gravity, Calculated: 1.239  
Theoretical VOC, Calculated: 3.288 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: ORANGE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.719  
% MONOMER BY WEIGHT 30.596

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 79.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.



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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK132 \*  
\*\*\*\*\*

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure

\*\*\*\*\*  
\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK132 \*  
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to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

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\* 991YK132 \*  
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Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1170

METHYL METHACRYLATE

CAS# 000080-62-6 PCT BY WT: 5.5750

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 25.0280

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product

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\* ARMORCOTE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 991YK132 \*  
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or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

## MATERIAL SAFETY DATA SHEET

## SECTION I - IDENTIFICATION

TRADE NAME: IMEDGE  
 DESCRIPTION: 100X DARK BLUE  
 PRODUCT CODE IDENTITY: 9EXFB379  
 NPCA HMIS RATING: H 2\* F 3 R 2

REVISION: 01  
 LAST REVISED : 01/03/2008  
 DATE OF ISSUE: 02/29/2008

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
 ADDRESS: 820 E. 14th AVENUE  
 NORTH KANSAS CITY, MO 64116

CUSTOMER:

PREPARED BY:  
 CCP PRODUCT STEWARDSHIP  
 INFORMATION TELEPHONE:  
 COMPOSITES: 1-800-821-3590  
 POLYMERS: 1-800-488-5541

## ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
 703-527-3887 (INTERNATIONAL)  
 FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

## SECTION II INGREDIENTS

1  
 CAS# 001345-16-0  
 COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)  
 PCT BY WT: 4.3530  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT (DUST & FUME)  
 LD50, Oral: >10 G/KG (RAT)  
 LD50, Dermal: NOT AVAILABLE  
 LC50, Inhalation: NOT AVAILABLE  
 OTHER: ACGIH TLV/TWA: 10 MG/CU.M. AS MOLYBEDUM & SILICA  
 OTHER (cont.): OSHA PEL/TWA: 10MG/CU.M. -MOLYBEDUM; 6MG/CU.M. -SILICA

2  
 CAS# 000136-52-7  
 COBALT 2-ETHYLHEXANOATE, 12% COBALT  
 PCT BY WT: .1180  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
 CAS# 000080-62-6  
 METHYL METHACRYLATE  
 PCT BY WT: 1.7140 VAPOR PRESSURE: 29.000 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA:	100 PPM (410 MG/CU.M.)
OSHA PEL/TWA:	100 PPM (410 MG/CU.M.)
LD50, Oral:	7.9 G/KG (RAT)
LD50, Dermal:	35.5 G/KG (RABBIT)
LC50, Inhalation:	>12,500 PPM/0.5 Hr (RAT)

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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 9EXFB379 \*  
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4

CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 28.4410 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

28.441  
1.774  
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29.6

5

UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.4475 LB/GL  
Theoretical Specific Gravity, Calculated: 1.135  
Theoretical VOC, Calculated: 2.979 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLUE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.266

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 \* MATERIAL SAFETY DATA SHEET \*  
 \* 9EXFB379 \*  
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 % MONOMER BY WEIGHT 30.180

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 SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 82.0 degrees F  
 For Flash Points 73 to 100 deg. F.  
 OSHA Flammability Classification: Class IC  
 DOT Flammability Classification: Flammable Liquid  
 Lower Flammable Limit in Air: Lower- 1.1 % by volume  
 DOT Shipping Name:  
 Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
 NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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 SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at



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 \* MATERIAL SAFETY DATA SHEET \*  
 \* 9EXFB379 \*  
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least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

HYDROQUINONE

Chronic exposure to Hydroquinone at higher levels has caused brownish discoloration of the cornea and conjunctiva and distortion of the cornea, in some cases leading to decreased visual acuity and blindness. Hydroquinone may cause allergic skin reaction and is moderately toxic if ingested or inhaled. Spills of liquids contain Hydroquinone should be cleaned up thoroughly and immediately to avoid creation of dust. Dust in the air may cause eye injury or form and explosive mixture in air

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

COBALT COMPOUNDS

The International Agency for Research on Cancer (IARC) has classified cobalt and cobalt compounds as Group 2B carcinogens. Group 2B carcinogens are possibly carcinogenic to humans. See IARC Monograph, Volume 52 for additional information.

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 SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATABILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light,  
or any source of free radicals and mild steel.

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\* MATERIAL SAFETY DATA SHEET \*  
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HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat,

sparks and flames. Do not cut, puncture or weld on or near emptied con-

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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 9EXFB379 \*  
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tainers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.  
KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information

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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
COBALT ALUMINATE BLUE SPINEL PIGMENT, 26% COBALT (CO) & 2% ZINC (ZN)  
CAS# 001345-16-0 PCT BY WT: 4.3530

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COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1180

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METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 1.7140

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STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 28.4410

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DISCLAIMER AND LIMITATION OF LIABILITY

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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product

if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the

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\* MATERIAL SAFETY DATA SHEET \*  
\* 9EXFB379 \*  
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purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: IMEDGE
DESCRIPTION: 100X MIDNIGHT BLUE
PRODUCT CODE IDENTITY: 9EXFB385
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 01
LAST REVISED : 01/03/2008
DATE OF ISSUE: 02/29/2008
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY:
CCP PRODUCT STEWARDSHIP
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541
CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)
FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1250
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 1.8030 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 28.9250 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)

30.7



ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)

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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 9EXFB385 \*  
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OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA

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Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.1796 LB/GL  
Theoretical Specific Gravity, Calculated: 1.103  
Theoretical VOC, Calculated: 2.950 LB/GL  
--If applicable , see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLUE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.846  
% MONOMER BY WEIGHT 30.755

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 82.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid

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 \* MATERIAL SAFETY DATA SHEET \*  
 \* 9EXFB385 \*  
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Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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 SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either

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 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 9EXFB385 \*  
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humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene." An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. Lung effects have been observed in the mouse following repeated exposure to styrene.

#### METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

#### HYDROQUINONE

Chronic exposure to Hydroquinone at higher levels has caused brownish discoloration of the cornea and conjunctiva and distortion of the cornea, in some cases leading to decreased visual acuity and blindness. Hydroquinone may cause allergic skin reaction and is moderately toxic if ingested or inhaled. Spills of liquids contain Hydroquinone should be cleaned up thoroughly and immediately to avoid creation of dust. Dust in the air may cause eye injury or form an explosive mixture in air.

#### METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

### SECTION VI REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

#### CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

#### INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

### SECTION VII SPILL OR LEAK PROCEDURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

#### WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 9EXFB385 \*  
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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air

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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 9EXFB385 \*  
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movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1250

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 1.8030

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 28.9250

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: IMEDGE
DESCRIPTION: 100X CALIFORNIA YELLOW
PRODUCT CODE IDENTITY: 9EXFB389
NPCA HMIS RATING: H 2\* F 3 R 2
REVISION: 01
LAST REVISED : 01/21/2008
DATE OF ISSUE: 02/29/2008
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY:
CCP PRODUCT STEWARDSHIP
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541
CUSTOMER:

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)
FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1190
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 1.7830 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: .100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 28.7060 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)

30.5

ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)



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OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

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SECTION III PHYSICAL DATA

-----  
Boiling Range: High- -N/A F Low- 212.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.2500 LB/GL  
Theoretical Specific Gravity, Calculated: 1.111  
Theoretical VOC, Calculated: 2.948 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: YELLOW  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.602  
% MONOMER BY WEIGHT 30.515

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SECTION IV FIRE AND EXPLOSION HAZARD DATA

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FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 82.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid

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 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 9EXFB389 \*  
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Lower Flammable Limit in Air: Lower- 1.1 % by volume  
 DOT Shipping Name:  
 Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
 SECTION V HEALTH HAZARD DATA  
 -----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either

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 \* MATERIAL SAFETY DATA SHEET \*  
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humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene." An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. Lung effects have been observed in the mouse following repeated exposure to styrene.

#### CARBON BLACK

The IARC evaluation in Monograph 65 concluded that "there is sufficient evidence in experimental animals for the carcinogenicity of Carbon Black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans (Group 2B)". Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

#### METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

#### HYDROQUINONE

Chronic exposure to Hydroquinone at higher levels has caused brownish discoloration of the cornea and conjunctiva and distortion of the cornea, in some cases leading to decreased visual acuity and blindness. Hydroquinone may cause allergic skin reaction and is moderately toxic if ingested or inhaled. Spills of liquids contain Hydroquinone should be cleaned up thoroughly and immediately to avoid creation of dust. Dust in the air may cause eye injury or form and explosive mixture in air

#### METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer. Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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### SECTION VI REACTIVITY DATA

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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

#### CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light,  
or any source of free radicals and mild steel.  
HAZARDOUS DECOMPOSITION PRODUCTS:

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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 9EXFB389 \*  
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Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until

container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and

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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 9EXFB389 \*  
\*\*\*\*\*

catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.  
KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1190

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 1.7830

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 28.7060

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

## MATERIAL SAFETY DATA SHEET

## SECTION I - IDENTIFICATION

TRADE NAME: IMEDGE

DESCRIPTION: 100X CHARCOAL

PRODUCT CODE IDENTITY: 9EXFB395

NPCA HMIS RATING: H 2\* F 3 R 2

REVISION: 01

LAST REVISED : 01/21/2008

DATE OF ISSUE: 02/29/2008

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.

ADDRESS: 820 E. 14th AVENUE

NORTH KANSAS CITY, MO 64116

PREPARED BY:

CCP PRODUCT STEWARDSHIP

CUSTOMER:

INFORMATION TELEPHONE:

COMPOSITES: 1-800-821-3590

POLYMERS: 1-800-488-5541

## ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)

703-527-3887 (INTERNATIONAL)

FOR MEDICAL EMERGENCIES (PROSAR): 1-800-269-9906

=====  
 CCP certifies that its products comply with all the provisions of the  
 Toxic Substances Control Act (TSCA), unless otherwise stated by  
 ingredient in Section II.  
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\*\*\*\*\*  
 \*\*\* The percent by weight composition data given in Sections II \*\*\*  
 \*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
 \*\*\* formula values for each ingredient in the product. The data \*\*\*  
 \*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
 \*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
 \*\*\* batch concentrations will vary within limits consistent with \*\*\*  
 \*\*\* separately established product specifications. \*\*\*  
 \*\*\*\*\*

## SECTION II INGREDIENTS

1

CAS# 000136-52-7

COBALT 2-ETHYLHEXANOATE, 12% COBALT

PCT BY WT: .1300

EXPOSURE LIMIT:

ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST &amp; FUME

OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST &amp; FUME

2

CAS# 000080-62-6

METHYL METHACRYLATE

PCT BY WT: 1.9800 VAPOR PRESSURE: 29.000 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)

OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)

LD50, Oral: 7.9 G/KG (RAT)

LD50, Dermal: 35.5 G/KG (RABBIT)

LC50, Inhalation: &gt;12,500 PPM/0.5 Hr (RAT)

3

CAS# 000100-42-5

STYRENE MONOMER

PCT BY WT: 29.1160 VAPOR PRESSURE: 4.500 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)

31.1



ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)

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 \*\*\*\*\*

OTHER: LCLO: 5000 PPM/8H (RAT)  
 OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
 OTHER LIMITS:  
 IARC - Group 2B See Section V

-----  
 4  
 CAS# 013463-67-7  
 TITANIUM DIOXIDE  
 PCT BY WT: 1.5420  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
 OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)  
 LD50, Oral: >7500 MG/KG (RAT)  
 LD50, Dermal: NOT AVAILABLE  
 LC50, Inhalation: NOT AVAILABLE

-----  
 5  
 UNSATURATED POLYESTER RESIN  
 ON TSCA INVENTORY CAS# PROPRIETARY  
 PCT BY WT: 1 - 5  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: NONE ESTABLISHED  
 OSHA PEL/TWA: NONE ESTABLISHED

-----  
 6  
 UNSATURATED POLYESTER RESIN  
 ON TSCA INVENTORY CAS# PROPRIETARY  
 PCT BY WT: 1 - 5  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: NONE ESTABLISHED  
 OSHA PEL/TWA: NONE ESTABLISHED

-----  
 \*\*\*\*\*  
 This product contains one or more reported carcinogens or suspected  
 carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
 subsection above under OTHER LIMITS.  
 \*\*\*\*\*  
 \*\*\*\*\*  
 This substance is classified as a hazardous air pollutant.  
 \*\*\*\*\*  
 \*\*\*\*\*

-----  
 SECTION III PHYSICAL DATA  
 -----

Boiling Range: High- -N/A F Low- 212.0 F  
 Vapor Pressure: See Section II  
 Theoretical Weight per Gallon, Calculated: 9.2443 LB/GL  
 Theoretical Specific Gravity, Calculated: 1.111  
 Theoretical VOC, Calculated: 2.974 LB/GL  
 --If applicable, see Section X for further VOC information--  
 Physical State: LIQUID  
 Appearance: GRAY  
 Odor: MODERATE AROMATIC  
 Odor Threshold: -N/A  
 pH: -N/A  
 Freezing Point: -N/A  
 Water Solubility: INSOLUBLE  
 Coefficient of Water/Oil Distribution: -N/A

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 \* 9EXFB395 \*  
 \*\*\*\*\*

Mechanical Impact Explosion: NO KNOWN HAZARD  
 Static Electricity Explosion: AVOID STATIC CHARGE  
 % HAP BY WEIGHT 31.218  
 % MONOMER BY WEIGHT 31.124

-----  
 SECTION IV FIRE AND EXPLOSION HAZARD DATA  
 -----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 82.0 degrees F  
 For Flash Points 73 to 100 deg. F.  
 OSHA Flammability Classification: Class IC  
 DOT Flammability Classification: Flammable Liquid  
 Lower Flammable Limit in Air: Lower- 1.1 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:  
 NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
 SECTION V HEALTH HAZARD DATA  
 -----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea,

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 \* 9EXFB395 \*  
 \*\*\*\*\*

vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

HYDROQUINONE

Chronic exposure to Hydroquinone at higher levels has caused brownish discoloration of the cornea and conjunctiva and distortion of the cornea, in some cases leading to decreased visual acuity and blindness.

Hydroquinone may cause allergic skin reaction and is moderately toxic if ingested or inhaled. Spills of liquids contain Hydroquinone should be cleaned up thoroughly and immediately to avoid creation of dust. Dust in the air may cause eye injury or form and explosive mixture in air

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

-----  
 SECTION VI REACTIVITY DATA  
 -----

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATABILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light,

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\* 9EXFB395 \*  
\*\*\*\*\*

or any source of free radicals and mild steel.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.  
WASTE DISPOSAL METHOD:  
Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:  
Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:  
Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:  
Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:  
Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:  
Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat,

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\* 9EXFB395 \*  
\*\*\*\*\*

sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

-----  
ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

-----  
SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1300

METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 1.9800

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 29.1160  
-----

-----  
DISCLAIMER AND LIMITATION OF LIABILITY  
-----

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as

Seller is willing and able to replace the defective products or refund the purchase price.





**KEYSTON**  
5252 E. Home  
Fresno, CA 93727

Fax Transmittal

To: MARTIN - PURCHASING

Firm: MALIBU BOATS

Fax #: \_\_\_\_\_

From: DEBBY BROWN

Date: 2-20-06

Re: MSDS 4011 ADHESIVE

Pages: INCLUDING COVER SHEET 2

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**MATERIAL SAFETY DATA SHEET**

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND DISTRIBUTOR'S INFORMATION						
NFPA Rating: Health-2; Flammability-3; Reactivity-0; Special- Manufactured For: <b>Keyston Bros.</b> Address: 1513 Sport Drive Address: Sacramento, CA 95834 Phone: 925-945-4949			HMIS Rating: Health-2; Flammability-3; Reactivity-0; Personal Protection-B DOT Hazard Classification: <b>ORM-D</b> Identity (trade name as used on label): <b>ADH4011 General Purpose Adhesive</b> MSDS Number: <b>A00315</b> Revision- <b>11</b> Date Prepared: 10/28/05 Prepared By: <b>IB/TR</b> Information Calls: (770)422-2071			
Emergency Response Number: <b>CHEMTREC: 800-424-9300</b> <b>NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA</b>						
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
<b>ACETONE</b>		67-64-1	No	1000	750	d
<b>HEPTANE (5 - 10%)</b>		142-82-5	No	500	400	d
<b>ISOBUTANE / PROPANE BLEND</b>		75-28-5	No	800	800	d
		74-98-8	No	1000	1000	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: <b>N/A</b>			Specific Gravity (H <sub>2</sub> O=1): Concentrate Only = 0.853			
Vapor Pressure: <b>PSIG @ 70°F (Aerosols): Max 80</b>			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): <b>N/A</b>			
Vapor Density (Air = 1): <b>N/E</b>			Evaporation Rate ( = 1): <b>N/E</b>			
Solubility in Water: <b>Partial</b>			Water Reactive: <b>No</b>			
Appearance and Odor: <b>Straw colored liquid with ketone solvent odor.</b>						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) <b>EXTREMELY FLAMMABLE</b>		Auto Ignition Temperature <b>N/E</b>		Flammability Limits in Air by % in Volume: % LEL: <b>N/E</b> % UEL: <b>N/E</b>		
FLASH POINT AND METHOD USED (non-aerosols): <b>N/A</b>		SPECIAL FIRE FIGHTING PROCEDURES: <b>Self-contained breathing apparatus. Use water fog to cool containers to prevent rupturing &amp; exploding containers. Provide shielding for personnel.</b>				
EXTINGUISHER MEDIA: <b>Foam, dry chemical, carbon dioxide, water</b>						
Unusual Fire & Explosion Hazards: <b>Do not expose aerosols to temperatures above 130°F or the container may rupture.</b>						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE			HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
Incompatibility (Mat. to avoid): <b>Strong oxidizing agents.</b>			Conditions to Avoid: <b>Open flame, welding arcs, heat, sparks.</b>			
Hazardous Decomposition Products: <b>Carbon dioxide, carbon monoxide.</b>						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS						
ACUTE EFFECTS						
Inhalation: <b>Excessive inhalation of vapors can cause nasal &amp; respiratory irritation, dizziness, weakness, nausea, headache, possible unconsciousness or asphyxiation.</b>						
Eye Contact: <b>Irritation.</b>			Skin Contact: <b>Irritation due to defatting of skin.</b>			
Ingestion: <b>Possible chemical pneumonitis if aspirated into lungs.</b>						
CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) <b>Excessive inhalation of solvents may cause brain and other nervous system damage.</b>						
Medical Conditions Generally Aggravated by Exposure: <b>May aggravate existing eye, skin, or upper respiratory conditions.</b>						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: <b>Flush with water for 15 minutes. If irritated, seek medical attention.</b>						
Skin Contact: <b>Wash with soap and water. If irritated, seek medical attention.</b>						
Inhalation: <b>Remove to fresh air. Resuscitate if necessary. Get medical attention.</b>						
Ingestion: <b>DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.</b>						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): <b>If vapor concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode.</b>						
Protective Gloves: <b>Neoprene.</b>			Eye Protection: <b>Safety glasses recommended.</b>			
Ventilation Requirements: <b>Adequate ventilation to keep vapor concentration below TLV.</b>						
Other Protective Clothing & Equipment: <b>None</b>						
Hygienic Work Practices: <b>Wash with soap and water before handling food. Remove contaminated clothing.</b>						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: <b>Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER.</b>						
Waste Disposal Methods: <b>Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.</b>						
Precautions To Be Taken In Handling & Storage: <b>Do not puncture or incinerate containers. Do not store at temperatures above 130°F.</b>						
Other Precautions &/or Special Hazards: <b>KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors. Remove ignition sources.</b>						

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. (a) NTP (b) IARC Monograph (c) OSHA (d) Not Listed (e) Animal Data Only

3M General Offices

3M Center  
St. Paul, MN 55144-1000  
1-800-364-3577 or (651) 737-6501 (24 hours)

01-33  
1751

APR 12 1998

MATERIAL SAFETY  
DATA SHEET



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2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

DIVISION: ADHESIVES DIVISION

TRADE NAME:

Fastbond (TM) Foam Adhesive 100, Lavender

ID NUMBER/U.P.C.:	62-4285-6530-3	00-21200-41540-1	62-4285-6535-2	-	-	-
	62-4285-7530-2	00-21200-41541-8	62-4285-8530-1	00-21200-41542-5		
	62-4285-8535-0	00-21200-41545-6	62-4285-9530-0	00-21200-41543-2		
	62-4285-9535-9	00-21200-41546-3	62-4285-9932-8	00-21200-41544-9		

ISSUED: NOVEMBER 12, 1998  
SUPERSEDES: NOVEMBER 3, 1998  
DOCUMENT: 08-7614-4

1. INGREDIENT	C.A.S. NO.	PERCENT		
WATER	7732-18-5	50	-	60
POLYCHLOROPRENE	9010-98-4	40	-	50
ROSIN ACIDS	68512-67-4	1	-	5

NOTE: The components of this product are in compliance with the chemical notification requirements of TSCA.  
Does not contain natural rubber latex or ammonia.

2. PHYSICAL DATA	
BOILING POINT:	212.00 F
VAPOR PRESSURE:	17.5 mmHg
VAPOR DENSITY:	1.10 Air = 1
EVAPORATION RATE:	1 Water = 1
SOLUBILITY IN WATER:	slight
SP. GRAVITY:	1.10 Water = 1
PERCENT VOLATILE:	51-55 % by wt
pH:	8.4-9
VISCOSITY:	15-40 CPS
MELTING POINT:	N/D
APPEARANCE AND ODOR:	low viscosity liquid, rubber ODOR, Lavender, THIN LIQUID

3. FIRE AND EXPLOSION HAZARD DATA	
FLASH POINT:	> 200 F
FLAMMABLE LIMITS - LEL:	N/D
FLAMMABLE LIMITS - UEL:	N/D
AUTOIGNITION TEMPERATURE:	N/D
EXTINGUISHING MEDIA:	Carbon dioxide, Dry chemical, Foam
SPECIAL FIRE FIGHTING PROCEDURES:	Wear full protective clothing, including helmet, self-contained,

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately



MATERIAL SAFETY  
DATA SHEETMSDS: Fastbond (TM) Foam Adhesive 100, Lavender  
NOVEMBER 12, 1998

PAGE: 2 of 5

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**3. FIRE AND EXPLOSION HAZARD DATA (continued)**

---

positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

No unusual fire or explosion hazards are anticipated.

**NFPA HAZARD CODES:** HEALTH: 1 FIRE: 0 REACTIVITY: 0

**UNUSUAL REACTION HAZARD:** none

**OSHA FIRE HAZARD CLASS:** Not applicable

---

**4. REACTIVITY DATA**

---

**STABILITY:** Stable

**INCOMPATIBILITY - MATERIALS TO AVOID:**

Strong Oxidizing Agents.

**HAZARDOUS POLYMERIZATION:** Will Not Occur

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon Monoxide and Carbon Dioxide, Hydrogen Chloride, Aldehydes, Ketones, Hydrocarbons, Irritant Vapors or Gases.

---

**5. ENVIRONMENTAL INFORMATION**

---

**SPILL RESPONSE:**

Observe precautions from other sections. Ventilate area. Contain spill. Cover with absorbent material. Collect spilled material. Place in a U.S. DOT-approved container.

**RECOMMENDED DISPOSAL:**

Incinerate in an industrial or commercial facility. Dispose of completely cured (or polymerized) material in a sanitary landfill. Dispose of waste product in a facility permitted to accept chemical waste.

**ENVIRONMENTAL DATA:**

Not determined.

**REGULATORY INFORMATION:**

Volatile Organic Compounds: < 5 gms/liter calculated per SCAQMD rule 443.1.

VOC Less H<sub>2</sub>O & Exempt Solvents: < 5 gms/liter calculated per SCAQMD rule 443.1.

Hazardous Air Pollutants: < .5 % by wt calculated.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

**EPCRA HAZARD CLASS:**

**FIRE HAZARD:** No **PRESSURE:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

---

MATERIAL SAFETY  
DATA SHEETMSDS: Fastbond (TM) Foam Adhesive 100, Lavender  
NOVEMBER 12, 1998

PAGE: 3 of 5

**6. SUGGESTED FIRST AID****EYE CONTACT:**

Immediately flush eyes with large amounts of water. Get immediate medical attention.

**SKIN CONTACT:**

Flush skin with large amounts of water. If irritation persists, get medical attention.

**INHALATION:**

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

**IF SWALLOWED:**

Do not induce vomiting. Drink two glasses of water. Call a physician.

**7. PRECAUTIONARY INFORMATION****EYE PROTECTION:**

Avoid eye contact. Avoid eye contact with vapor, spray, or mist.

**SKIN PROTECTION:**

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber, neoprene, nitrile rubber, polyethylene, polyethylene/ethylene vinyl alcohol.

**VENTILATION PROTECTION:**

Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection. Provide ventilation adequate to control vapor concentrations below recommended exposure limits and/or control spray or mist.

**RESPIRATORY PROTECTION:**

Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask dust and mist respirator, full-face dust and mist respirator.

**PREVENTION OF ACCIDENTAL INGESTION:**

Do not ingest.

**RECOMMENDED STORAGE:**

Store at temperatures above 32 degrees F (0 degrees C). Keep container closed when not in use. Keep out of the reach of children.

**FIRE AND EXPLOSION AVOIDANCE:**

Keep container tightly closed. Do not heat under confinement. Do not spray near flame or incandescent material.

**OTHER PRECAUTIONARY INFORMATION:**

Not intended for consumer sale or use.



MATERIAL SAFETY  
 DATA SHEET

APR 12 1998



MSDS: Fastbond (TM) Foam Adhesive 100, Lavender  
 NOVEMBER 12, 1998

PAGE: 4 of 5

**7. PRECAUTIONARY INFORMATION (continued)**

HMS HAZARD RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0  
 PERSONAL PROTECTION: X (See precautions, section 7.)

INGREDIENTS	EXPOSURE LIMITS		TYPE AUTH	SKIN*
	VALUE	UNIT		
WATER .....	NONE	NONE	NONE NONE	
POLYCHLOROPRENE .....	NONE	NONE	NONE NONE	
ROSIN ACIDS .....	NONE	NONE	NONE NONE	

\* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

**SOURCE OF EXPOSURE LIMIT DATA:**

- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level G
- NONE: None Established

**8. HEALTH HAZARD DATA**

**EYE CONTACT:**

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

**SKIN CONTACT:**

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

**INHALATION:**

Prolonged or repeated exposure may cause:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

**IF SWALLOWED:**

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

**SECTION CHANGE DATES**

PHYSICAL DATA SECTION CHANGED SINCE NOVEMBER 3, 1998 ISSUE



3M General Offices

3M Center  
St. Paul, MN 55144-1000  
1-800-364-3577 or (651) 737-6501 (24 hours)

01-33  
1755

MATERIAL SAFETY  
DATA SHEET

APR 12 1998



MSDS: Fastbond (TM) Foam Adhesive 100, Lavender  
NOVEMBER 12, 1998

PAGE: 5 of 5

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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St. Paul, MN 55144-1000  
1-800-364-3577 or (651) 737-6501 (24 hours)

01-33  
1750

MATERIAL SAFETY  
DATA SHEET

APR 12 1999



APRIL 03, 1999

DA-31-LF90215-S31217

MALIBU BOATS  
1 MALIBU CT  
MERCED CA 95340

Dear Customer:

Enclosed are Material Safety Data Sheets (MSDSs) for products that your company recently purchased from 3M. Your purchase order numbers are listed on the last page of this packet for your reference.

Our objective in sending this information is to help you protect the health and safety of your personnel and to comply with the OSHA Hazard Communication Standard and Title III of the Superfund Amendments and Reauthorization Act of 1986. The OSHA standard requires that all personnel who may be exposed to hazardous materials must be provided by their employer with accurate information on the potential hazards of the materials and trained in proper work practices to minimize any risk.

Please forward the attached MSDS(s) to the individual in your organization responsible for implementing these regulations. If your purchase order designated that the material be shipped to an address other than the billing address, both addresses received a copy of the MSDS.

If you are a distributor and resell this product, OSHA and EPA require that you transmit this MSDS information to your customers at the time of first shipment or whenever you receive revised MSDSs from 3M.

3M MSDSs are now available to 3M customers on CD-ROM at a low annual subscription cost. Please call 1-800-944-2345 or complete and return the enclosed card to take advantage of this offer. The customer number, which is located in the top right hand corner of this letter, confirms your eligibility.

3M is committed to meeting our customer requirements and we ask that you contact your 3M customer service or sales representative if you have any questions or problems in this regard. If you do not know who to contact, please call the 3M Product Information Center at 1-800-364-3577.

Sincerely,

J. L. Butenhoff, Ph.D  
Manager, Toxicology Services  
3M Medical Department

bah (161-MSDS1)  
Enclosure(s)



IPS WELD-ON		<b>MATERIAL SAFETY DATA SHEET</b>		Data Revised: AUG 2005 Supersedes: OCT 2004		
Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. IPS Corporation urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on this sheet.						
<b>SECTION I</b>						
<b>MANUFACTURER'S NAME</b> IPS Corporation <b>ADDRESS</b> 600 Ellis Road, Durham, NC 27703			<b>Transportation Emergencies:</b> CHEMTREC: (800) 424-9300 <b>Medical Emergencies:</b> 3 E COMPANY (24 Hour No.) (800) 451-8346 Business: (919) 598-2400			
<b>CHEMICAL NAME and FAMILY</b> Acrylic Reactive Adhesive Mixture of Polymer Resins and Methyl Methacrylate Monomer		<b>TRADE NAME: WELD-ON STRUCTURAL SERIES</b> 300 Series Adhesives WELD-ON SS 305, SS 315, SS 340 2-Component Cartridge, Kit or Clip Pack <b>FORMULA: Proprietary</b>				
<b>SECTION II - HAZARDOUS INGREDIENTS</b>						
None of the ingredients below are listed as carcinogens by IARC, NTP or OSHA						
	CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL
<i>Component "A" (90%) -- Base Resin</i>						
Synthetic Polymer Resin	NON/HAZ		N/A		N/A	
Methyl Methacrylate Monomer, Stabilized	80-62-6	39 - 65*	100 PPM		100 PPM	
Methacrylic Acid	79-41-4	1 - 5	20 PPM (Skin)	N/E	N/E	N/E
<i>Component "B" (10%) -- Activator</i>						
Synthetic Polymer Resin	NON/HAZ					
Blended mixture of Benzoate Esters	NON/HAZ	55 - 70*	N/A		N/A	
55% Benzoyl Peroxide paste in proprietary plasticizer	94-36-0	10 - 25*	5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>	
All of the constituents of Weld-On adhesive products are listed on the TSCA inventory of chemical substances maintained by the US EPA and the Canadian Domestic Substances List (DSL), or are exempt therefrom.						
*Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.						
<b>SHIPPING INFORMATION: 2 Components Shipped together</b>			<b>SPECIAL HAZARD DESIGNATIONS</b>			
DOT Shipping Name: Adhesive	CONTAINERS LARGER THAN ONE LITER		HMIS	NFPA	HAZARD RATING	
DOT Hazard Class: 3			HEALTH: "A" -2, "B"-1	"A" -2, "B"-1	0 - MINIMAL	
identification Number: UN 1133			FLAMMABILITY: "A" -3, "B"-1	"A" -3, "B"-1	1 - SLIGHT	
Packaging Group: II			REACTIVITY: "A" -1, "B"-1	"A" -1, "B"-1	2 - MODERATE	
Label Required: Flammable Liquid			PROTECTIVE EQUIPMENT:	B - H	3 - SERIOUS	
<b>SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER</b>						
DOT Shipping Name: Consumer Commodity			B = Eye, Hand/Skin Protection (Normal use or application & spill clean-up activities)			
DOT Hazard Class: ORM-D			H = Eye, Hand/Skin and Respiratory Protection plus Impermeable Apron (When risk of immersion and/or splashing is present)			
<b>SHIPPING INFORMATION IF COMPONENTS SHIPPED SEPARATELY:</b>						
"A": Same as above						
"B": Not regulated, requires no special handling/markings/labeling as a hazardous or dangerous material						
<b>SECTION III - PHYSICAL DATA</b>						
<b>APPEARANCE</b>		<b>ODOR</b>		<b>BOILING POINT (°F/°C)</b>		
"A"- Off-White, viscous liquid or paste; "B"- White, viscous liquid;		"A" Distinct Strong Odor, "B" Essentially Odorless		214°F (102°C) Based on Methyl Methacrylate Monomer - "A"; N/A -"B"		
<b>SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)</b>		<b>VAPOR PRESSURE (mm Hg.)</b>		<b>PERCENT VOLATILE BY VOLUME (%)</b>		
Typical 0.940 ("A"), 1.087 ("B") ± 0.040		29 mm Hg. @ 68°F (20°C) based on Methyl Methacrylate Monomer - "A"; 1.0 mm Hg. @ 298°F (147°C) - "B"		Approx: 50 -75 % - "A"; 0 - "B"		
<b>VAPOR DENSITY (Air = 1)</b>		<b>EVAPORATION RATE (BUAC = 1)</b>		<b>SOLUBILITY IN WATER</b>		
3.46 based on Monomer-"A" N/A -"B"		"A" - <1; "B" - N/A		"A", Slight "B", Insoluble		
<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>						
<b>FLASH POINT</b>		<b>FLAMMABLE LIMITS</b>		<b>LEL</b>	<b>UEL</b>	
"A" 51°F (10.6°C) T.C.C.; "B" 420°F (217°C) C.O.C		(Percent by Volume)		"A" 2.1, "B" 0.47	"A" 12.5, "B" -	
<b>FIRE EXTINGUISHING MEDIA</b>						
Foam, carbon dioxide, dry chemical, water fog (by trained personnel).						
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>						
Full protective equipment, including self-contained breathing apparatus, is recommended. Cool containers of material exposed to heat with cold water spray. Use of a water fog by trained personnel can avoid large amounts of water or water streams distributing burning material or contaminated water over a large area, into sewers or storm drains. Fight fires from appropriate distance or from protected area.						
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>						
Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air and may travel to source(s) of ignition at or near ground or lower level(s) and flash back. Susceptible to spontaneous heating. Considered a fire hazard because of low flash point. Peroxides and decomposition products are flammable and can ignite with explosive force if confined.						

## SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:        X   Inhalation        X   Skin Contact      \_\_\_\_\_ Eye Contact      \_\_\_\_\_ Ingestion

**EFFECT OF OVEREXPOSURE**  
**ACUTE:**  
Inhalation:                      Exposure may result in nausea, drowsiness, dizziness, headache and other CNS effects. Can cause irritation of eyes and nasal passages.  
Skin Contact:                      Skin irritant. Potential skin sensitizer. Repeated or prolonged contact may result in skin irritation, contact dermatitis, rash, itching, swelling.  
Eye Contact:                      Direct exposure may result in irritation or burning feeling with corneal or conjunctival inflammation.  
Ingestion:                              Moderately toxic. Do not induce vomiting. Obtain prompt medical attention.  
**CHRONIC:**  
Inhalation                              Toxicity described in animals exposed by inhalation include inflammation of the nasal cavity and changes in nasal sensory cells and slight decrease in body weight. Extremely high concentrations have caused embryotoxic effects in laboratory animals.  
Ingestion                              Toxicity described in animals exposed by ingestion include a decreased body weight and increased relative kidney weight at high dose levels and damage to the sperm producing cells of the testis.

REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY	EMBRYOTOXICITY	SENSITIZATION TO PRODUCT	SYNERGISTIC PRODUCTS
N. AP.	N. AP.	POSS	N. AP.	N. AP.	N. AV.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** This material may aggravate an existing dermatitis. Individuals with pre-existing diseases of the lungs, liver or kidney may have increased susceptibility to the toxicity of excessive exposures.

**EMERGENCY AND FIRST AID PROCEDURES**  
Inhalation:                              Remove patient to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Contact physician immediately.  
Eye Contact:                              Immediately flush eyes with flowing water for 15 minutes and contact a physician.  
Skin Contact:                              Wash skin with soap and water for at least 15 minutes. If irritation develops, get medical attention.  
Ingestion:                                 Give 1 or 2 glasses of water or milk. Do not induce vomiting. Call physician or poison control center immediately.

## SECTION VI - REACTIVITY

STABILITY	UNSTABLE		CONDITIONS TO AVOID:	Exposure to fire, heat, sparks, open flame and other sources of ignition, direct sunlight, contact with oxidizing materials or contamination.
	STABLE	X		

INCOMPATIBILITY (MATERIALS TO AVOID) Reducing and oxidizing agents.	ACTIVE OXYGEN CONTENT (Component "B") < 1% Not considered an EPA hazardous Waste, Number D003, Reactive Waste
--	---

**HAZARDOUS DECOMPOSITION PRODUCTS**  
 Oxides of carbon, oxides of nitrogen, hydrogen cyanide, hydrocarbons, dense smoke and gases upon combustion.

HAZARDOUS	MAY OCCUR	X	CONDITIONS TO AVOID	Keep away from heat Above 130°F (55°C), sparks, open flame and other sources of ignition.
POLYMERIZATION	WILL NOT OCCUR			Do not store above 100°F (38°C)

## SECTION VII - SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**  
 Eliminate all ignition sources. Avoid exposure of personnel to toxic concentration of vapor and guard against accidental fire and explosion. Contain liquid with sand, earth or nonflammable absorbent material sweep and scoop up using non-sparking tools and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.

**WASTE DISPOSAL METHOD**  
 Follow local, State and Federal regulations. Material should not be allowed to drain into domestic sewer or storm drains. Consult authorities or disposal expert.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION (Specify type)**  
 Atmospheric levels should be maintained below established exposure limits contained in Section II. For emergency conditions, use an approved positive pressure self-contained breathing apparatus.

**VENTILATION**  
 Use only with adequate ventilation. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Use only explosion proof ventilation equipment.

<b>PROTECTIVE GLOVES</b> For frequent dipping or immersion, Component "A" - PVA coated rubber; Component "B" - Nitrile or neoprene rubber. Use of latex/nitrile surgical gloves or solvent resistant barrier creme should provide adequate protection when normal adhesive bonding practices and procedures are used for small quantity mixing and/or application on various substrates.	<b>EYE PROTECTION</b> Splashproof chemical goggles, face shield, safety glasses with brow guards and side shields, etc. as appropriate for exposure.
--	--

**OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES**  
 Good industrial hygiene practices and impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.

## SECTION IX - SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**  
 Store in the shade between 40°F - 100°F (5°C - 38°C). Keep away from heat, sparks, open flame and other sources of ignition. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Train employees on all special handling procedures before they work with product.

**OTHER PRECAUTIONS**  
 Follow all precautionary information given on container label, product bulletins and application instructions. All material handling equipment should be electrically grounded.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: STYPOL LHPC-3523  
DESCRIPTION: UNSATURATED POLYESTER RESIN IN MONOMER  
PRODUCT CODE IDENTITY: LHPC3523B2  
NPCA HMIS RATING: H 2\* F 3 R 1  
REVISION: 01  
LAST REVISED : 08/19/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1750  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 31.6320 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

3  
CAS# 000098-83-9  
ALPHA METHYL STYRENE  
PCT BY WT: 1.0000  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 50 PPM (240 MG/CU.M.)  
ACGIH TLV/STEL: 100 PPM (485 MG/CU.M.)

\*\*\*\*\*  
\* STYPOL LHPC-3523 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC3523B2 \*  
\*\*\*\*\*

OSHA PEL/TWA: 50 PPM (240 MG/CU.M.)  
OSHA PEL/STEL: 100 PPM (485 MG/CU.M.)  
LD50, Oral: 4.9 G/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
OTHER: LCLO: 3000 PPM (RAT)

-----  
4  
UNSATURATED POLYESTER RESIN  
ON TSCA AND DSL INVENTORIES CAS# PROPRIETARY  
PCT BY WT: 50 - 60  
-----

5  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY/ON CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
-----

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*  
-----

SECTION III PHYSICAL DATA

-----  
Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.2793 LB/GL  
Theoretical Specific Gravity, Calculated: 1.115  
Theoretical VOC, Calculated: 3.229 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: LIGHT AMBER  
Odor: STYRENE  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 31.674  
% MONOMER BY WEIGHT 32.631  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA

-----  
FLAMMABILITY CHARACTERISTICS:  
-----

\*\*\*\*\*  
\* STYPOL LHPC-3523 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC3523B2 \*  
\*\*\*\*\*

Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points less than 73 deg. F.  
OSHA Flammability Classification: Class IB  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid

DOT Shipping Name:

DOT Shipping Name:

Flash Points less than 73 deg. F. = RESIN SOLUTION, 3, UN1866, PG II

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 149980/SUB 2 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause pneumonitis which can be fatal.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at

\*\*\*\*\*  
\* STYPOL LHPC-3523 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC3523B2 \*  
\*\*\*\*\*

least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

-----  
SECTION VI REACTIVITY DATA  
-----

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:

Do not breathe vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during use of this product until vapors are exhausted, unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

\*\*\*\*\*  
\* STYPOL LHPC-3523 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC3523B2 \*  
\*\*\*\*\*

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits. Refer to OSHA Standard 1910.94.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1750

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 31.6320  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.



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\* STYPOL LHPC-3523 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC3523B2 \*  
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The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: STYPOL LHPC-4121  
DESCRIPTION: UNSATURATED POLYESTER RESIN IN MONOMER  
PRODUCT CODE IDENTITY: LHPC4121B2 REVISION: 01  
NPCA HMIS RATING: H 2\* F 3 R 1 LAST REVISED : 09/17/2004  
DATE OF ISSUE: 11/01/2005  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE PREPARED BY:  
NORTH KANSAS CITY, MO 64116 HAZARD COMMUNICATION DEPT.  
CUSTOMER: INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*  
\*\*\*\*\*

SECTION II INGREDIENTS

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1750  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 31.6220 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

3  
CAS# 000098-83-9  
ALPHA METHYL STYRENE  
PCT BY WT: 1.0000  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 50 PPM (240 MG/CU.M.)  
ACGIH TLV/STEL: 100 PPM (485 MG/CU.M.)

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\* STYPOL LHPC-4121 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC4121B2 \*  
\*\*\*\*\*

OSHA PEL/TWA: 50 PPM (240 MG/CU.M.)  
OSHA PEL/STEL: 100 PPM (485 MG/CU.M.)  
LD50, Oral: 4.9 G/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
OTHER: LCLO: 3000 PPM (RAT)

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4  
UNSATURATED POLYESTER RESIN  
ON TSCA AND DSL INVENTORIES CAS# PROPRIETARY  
PCT BY WT: 50 - 60  
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5  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY/ON CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.2796 LB/GL  
Theoretical Specific Gravity, Calculated: 1.115  
Theoretical VOC, Calculated: 3.228 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: LIGHT AMBER  
Odor: STYRENE  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 31.667  
% MONOMER BY WEIGHT 32.621  
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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CHARACTERISTICS:

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\* STYPOL LHPC-4121 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC4121B2 \*  
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Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points less than 73 deg. F.  
OSHA Flammability Classification: Class IB  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
DOT Shipping Name:  
Flash Points less than 73 deg. F. = RESIN SOLUTION, 3, UN1866, PG II  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:  
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:  
Freight Classification:  
NMFC: 149980/SUB 2 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:  
EYE CONTACT:  
Irritation. Symptoms are tearing, redness and discomfort.  
SKIN CONTACT:  
Irritation. Can cause defatting of skin which may lead to dermatitis.  
INHALATION:  
Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.  
Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:  
May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause pneumonitis which can be fatal.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.  
Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:  
In case of eye contact, flush immediately with plenty of water for at

\*\*\*\*\*  
\* STYPOL LHPC-4121 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC4121B2 \*  
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least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during use of this product until vapors are exhausted, unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

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\* STYPOL LHPC-4121 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC4121B2 \*  
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VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits. Refer to OSHA Standard 1910.94.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1750

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STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 31.6220  
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DISCLAIMER AND LIMITATION OF LIABILITY  
-----

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

\*\*\*\*\*  
\* STYPOL LHPC-4121 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LHPC4121B2 \*  
\*\*\*\*\*

The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: STYPOL LSPA-2201  
DESCRIPTION: UNSATURATED POLYESTER IN MONOMER  
PRODUCT CODE IDENTITY: LSPA2201B3  
NPCA HMIS RATING: H 2\* F 3 R 1  
REVISION: 01  
LAST REVISED : 08/16/2004  
DATE OF ISSUE: 04/27/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0480  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1820  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 32.6190 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)



LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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\* STYPOL LSPA-2201 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LSPA2201B3 \*  
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.  
\*\*\*\*\*

This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 8.8911 LB/GL  
Theoretical Specific Gravity, Calculated: 1.068  
Theoretical VOC, Calculated: 3.109 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: LT BLUE TO BLUE-GREEN  
Odor: STYRENE  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.706  
% MONOMER BY WEIGHT 32.610  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points less than 73 deg. F.  
OSHA Flammability Classification: Class IB  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
DOT Shipping Name:  
DOT Shipping Name:  
Flash Points less than 73 deg. F. = RESIN SOLUTION, 3, UN1866, PG II  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.

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\* STYPOL LSPA-2201 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LSPA2201B3 \*  
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UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 149980/SUB 2 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause pneumonitis which can be fatal.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact; flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase

\*\*\*\*\*  
\* STYPOL LSPA-2201 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LSPA2201B3 \*  
\*\*\*\*\*

in mortality related to styrene."  
An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.  
Lung effects have been observed in the mouse following repeated exposure to styrene.

-----  
SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:  
Elevated temperatures.  
INCOMPATIBILITY (MATERIALS TO AVOID):  
Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.  
WASTE DISPOSAL METHOD:  
Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:  
Do not breathe vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during use of this product until vapors are exhausted, unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.  
VENTILATION:  
Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits. Refer to OSHA Standard 1910.94.  
NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.  
PROTECTIVE GLOVES:  
Use solvent impermeable gloves to avoid contact with product.  
EYE PROTECTION:  
Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.  
OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

\*\*\*\*\*  
\* STYPOL LSPA-2201 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LSPA2201B3 \*  
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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0480

-----  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1820

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STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 32.6190  
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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the

purchase price.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: STYPOL LSPK-2221
DESCRIPTION: UNSATURATED POLYESTER RESIN IN MONOMER
PRODUCT CODE IDENTITY: LSPK2221B3
NPCA HMIS RATING: H 2\* F 3 R 1
REVISION: 01
LAST REVISED: 01/06/2006
DATE OF ISSUE: 20/06/0110
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: HAZARD COMMUNICATION DEPT.

CUSTOMER: INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

1
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1820
EXPOSURE LIMIT:
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 34.8330 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLO: 5000 PPM/8H (RAT)
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)
OTHER LIMITS:
IARC - Group 2B See Section V

This product contains one or more reported carcinogens or suspected carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.

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\* STYPOL LSPK-2221  
\* MATERIAL SAFETY DATA SHEET  
\* LSPK2221B3  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 8.8353 LB/GL  
Theoretical Specific Gravity, Calculated: 1.061  
Theoretical VOC, Calculated: 3.301 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLUE-GREEN  
Odor: STYRENE  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 34.936  
% MONOMER BY WEIGHT 34.829

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points less than 73 deg. F.  
OSHA Flammability Classification: Class IB  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume

For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid

DOT Shipping Name:  
DOT Shipping Name:  
Flash Points less than 73 deg. F. = RESIN SOLUTION, 3, UN1866, PG II  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:  
Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers



FOR INTERNAL USE ONLY. FORMULA INSTANCE LSPK2221B3

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\* STYPOL LSPK-2221 MATERIAL SAFETY DATA SHEET \*  
\* LSPK2221B3 \*  
\*\*\*\*\*

tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

**ADDITIONAL TRANSPORTATION INFORMATION:**

Freight Classification:

NMFC: 149980/SUB 2 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
-----

**EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:**

**EYE CONTACT:**

Irritation. Symptoms are tearing, redness and discomfort.

**SKIN CONTACT:**

Irritation. Can cause defatting of skin which may lead to dermatitis.

**INHALATION:**

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

**INGESTION:**

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause pneumonitis which can be fatal.

**MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.**

Preexisting eye, skin, liver, kidney and respiratory disorders.

**EMERGENCY AND FIRST AID PROCEDURES:**

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

**CALIFORNIA PROPOSITION 65 INFORMATION:**

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

**OTHER HEALTH HAZARDS:**

**STYRENE MONOMER**

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of

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\* STYPOL LSPK-2221 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LSPK2221B3 \*  
\*\*\*\*\*

workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during use of this product until vapors are exhausted, unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits. Refer to OSHA Standard 1910.94.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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\* STYPOL LSPK-2221 MATERIAL SAFETY DATA SHEET \*  
\* LSPK2221B3 \*  
\*\*\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1820

-----  
STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 34.8330  
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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

607-649

**ITW Plexus**

Part No. 0904

**Material Safety Data Sheet**

MA 300 ADHESIVE

Page 1

**MA 300 ADHESIVE**

Last revised: 11/16/99

Printed: 05/03/00

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Chemical family Acrylate

General information: Adhesive

**MANUFACTURER**

ITW Plexus  
30 Endicott St.  
Danvers, Massachusetts 01923

**EMERGENCY INFORMATION**

Emergency telephone number  
(CHEMTREC) (800) 424-9300  
Other calls: (978) 777-1100

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS CONSTITUENTS	Constituent	Abbr.	CAS No.	Weight percent	Exposure limits		
					ACGIH TLV	OSHA PEL	Other Limits
	Methacrylic acid	MAA	79414	5-15	20 ppm	20 ppm	4 ppm (Manufacturer)
	Methyl Methacrylate Monomer	MMA	80626	50-60	100 ppm	100 ppm	100 ppm (Canada)

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) as established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (\*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

**3. HAZARDS IDENTIFICATION**

**Emergency Overview**

Appearance, physical form, odor: Off-white paste with varied fragrant odor.

**WARNING! Flammable.** Overexposure to liquid, mist or vapor may have the following effects: **EYE AND SKIN EXPOSURE:** Irritant and potential skin sensitizer. May cause redness, itching, burning, rash. **RESPIRATORY EXPOSURE:** Irritant. May cause headache, nausea, dizziness, fatigue, drowsiness. Avoid breathing vapor. Use with adequate ventilation or use proper respiratory equipment. Wash thoroughly after handling. Do not take internally. Keep away from heat, sparks, open flames.

**Potential health effects:****Primary routes of exposure:**

Skin contact     Skin absorption     Eye contact     Inhalation     Ingestion

**Symptoms of acute overexposure:****Skin:**

May cause irritation and sensitization. May be absorbed through the skin.

**Eyes:**

Liquid and vapors causes moderate irritation. May cause corneal damage.

**Inhalation:**

High concentration is irritant to respiratory tract and may cause dizziness, headache, and anaesthetic effects.

**Ingestion:**

Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**Effects of chronic overexposure:**

Prolonged exposure may lead to kidney, lung, heart and liver damage.

**Medical conditions which may be aggravated by exposure:**

Preexisting eye, lung and skin disorders.

**Carcinogenicity -- OSHA regulated:** No    **ACGIH:** No    **National Toxicology Program:** No  
**International Agency for Research on Cancer:** No  
**Cancer-suspect constituent(s):**

**Other effects:**

Developmental toxicity observed in animal tests with MMA at levels toxic to the mother.

**4. FIRST AID MEASURES****First aid for eyes:**

Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Get immediate medical attention.

**First aid for skin:**

Immediately remove contaminated clothing and excess contaminant. Flush skin with water. Wash thoroughly with warm soap and water. Consult a physician if irritation develops.

**First aid for inhalation:**

Remove patient to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms persist.

**First aid for ingestion:**

Do NOT induce vomiting. Give two glasses of water to dilute if patient is conscious. Get medical attention.

**5. FIRE FIGHTING MEASURES****Extinguishing media:** Water Carbon dioxide Dry chemical Foam Alcohol foam**Flash Point (°F):** 50**Method:** TCC**Explosive limits in air -- Lower:** 2.1**Upper:** 12.5**Special firefighting procedures:**

Keep personnel removed and upwind from fire. Wear self contained breathing apparatus and full protective equipment. Cool tank with water spray. Fight fire from a distance as the heat may rupture the tanks.

**Unusual fire and explosion hazards:**

Sealed containers at elevated temperatures may rupture due to polymerization. Vapors are heavier than air and may travel to ignition sources and flash back.

**Hazardous products of combustion:**

Carbon monoxide, carbon dioxide and smoke.

**6. ACCIDENTAL RELEASE MEASURES****Spill control:**

Avoid personal contact. Eliminate ignition sources. Ventilate area.

**Containment:**

Dike, contain and absorb with clay, sand or other suitable non-combustible material.

**Cleanup:**

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly (RCRA hazardous waste). Add inhibitor to prevent polymerization.

**Special procedures:**

Prevent spill from entering drainage/sewer systems, waterways, and surface waters. Use non-sparking tools

**7. HANDLING AND STORAGE****Handling precautions:**

Do not breathe vapor or mist. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Close container after each use. Ground container when pouring. Keep away from heat, flame or sparks. Use non-sparking tools.

**Storage precautions:**

Keep in a cool place, without direct exposure to sunlight. Keep container tightly closed and otherwise in accordance with NFPA regulations. Maintain air space in storage containers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering controls****Ventilation:**

Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

**Other engineering controls:**

Keep container tightly closed. Observe label precautions. Have emergency eyewash and safety shower present.

**Personal protective equipment****Eye and face protection:**

Wear safety glasses. Wear coverall chemical splash goggles and face shield when eye and face contact is possible.

**Skin Protection:**

Wear impervious butyl rubber clothing as appropriate to prevent contact.

**Respiratory protection:**

A NIOSH/MSHA air purifying respirator with an organic vapor cartridge may be permissible, however use a positive pressure air supplied respirator if there is any potential for uncontrolled release, or unknown exposure levels.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Specific gravity:</b>	1.03	<b>Boiling point (°F):</b>	213
<b>Melting point (°F):</b>	n/d	<b>Vapor density (air = 1):</b>	> 1
<b>Vapor pressure (mmHg):</b>	28 mm Hg	<b>Evaporation rate (butyl acetate = 1):</b>	3
	at 68 °F	<b>Solubility in water:</b>	n/d
<b>VOC (grams/liter):</b>	< 50 mixed	<b>pH (5% solution or slurry in water):</b>	3.0-3.5
<b>Percent volatile by volume:</b>	n/d		0
<b>Percent solids by weight:</b>	n/d		

**10. STABILITY AND REACTIVITY**

This product is chemically stable.

Hazardous polymerization may occur.

**Conditions to avoid:**

Unstable with heat, direct sunlight, inert gas blanketing, ultraviolet radiation.

**Incompatible materials:**

Incompatible with strong oxidizing agents and reducing agents, acids and bases. Material is a strong solvent and can soften paint and rubber.

**Hazardous decomposition products:**

Carbon monoxide, carbon dioxide and smoke.

**Conditions of hazardous polymerization:**

Excessive heat, storage in the absence of inhibitor and inadvertant addition of catalyst.

**11. TOXICOLOGICAL INFORMATION****Acute oral effects:**

LD50 (rat): > 2000 mg/kg estimate

Toxicity of MMA exposed near LD50 include blood in the urine and liver changes.

**Acute dermal effects**

LD50 (rabbit): > 1700 mg/kg estimate

Dermatitis.

**Acute inhalation effects:**

LC50 (rat): No data available. in 4 hours

Toxicity of MMA at 8-100 times TLV from respiratory and gastrointestinal irritation, lung damage, nervous system effects and blood in urine.

**Eye irritation:**

Not available.

**Subchronic effects**

Inhalation: Repeated exposure of MMA at 5-100 times the TLV include lung damage, pulmonary irritation, liver changes, eye irritation, nasal tissue changes, incoordination and upper respiratory irritation. Ingestion: Liver and kidney affects with altered function in both organs. Skin permeation may occur.

**Chronic effects**

Inhalation: long term exposure of MMA caused inflammation of the nasal cavity, changes in nasal sensory cells and decreased body weight. Ingestion: Can cause decreased body weight, and increased kidney weight

**Carcinogenicity, teratogenicity, and mutagenicity:**

Possible reproductive hazard based on animal data.

**Toxicological information on hazardous chemical constituents of this product:**

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat, 4 hours)
Methacrylic acid	1060 mg/kg	500 mg/kg	>1300 ppm
Methyl Methacrylate Monomer	7872 mg/kg	> 5000 mg/kg	7093 ppm

**12. ECOLOGICAL INFORMATION****Ecotoxicity:**

MMA has: estimate of 96 hour median threshold limit: 100-1,000 ppm; 96 hour LC50, fathead minnow: 150 ppm; 96 hour LC50, bluegill sunfish: 232 ppm. MAA has: LC50 = 85mg/l, 96 hr, Rainbow trout (slightly toxic); EC50 > 130 mg/l, 48 hr, Daphnia magna (practically non-toxic); EC50 = 0.6 mg/l, 96 hr, Algae (highly toxic).

**Mobility and persistence:**

MMA is partially biodegradable in water. BOD-5 day: 0.14 g/g - 0.90 g/g; THOD : 1.92 g/g. MAA readily biodegraded (86% within 28 days) under aerobic conditions.

**Environmental fate:**

MMA produces high tonnage material in wholly contained systems. Liquid with moderate mobility. Sparingly soluble in water. High potential for bioaccumulation. Low mobility in soil.

**13. DISPOSAL CONSIDERATIONS****Waste management recommendations:**

Do not dispose of in a landfill. Incineration is the preferred method of disposal.

**14. TRANSPORT INFORMATION**

**Proper shipping name:** Adhesives

**Technical name:** N/A

**Hazard class:** 3

**UN number:** 1133

**Packing group:** II

**IMDG Page no.:** 3174

**Emergency Response Guide no.:** 127

**Other:** Containers < 30 liters are PG III

Depending on the size and type of container, this material may be reclassified as "Consumer Commodity, ORM-D" for shipments within the United States, or as "Limited Quantity" elsewhere. Refer to the appropriate regulation.



**15. REGULATORY INFORMATION****U.S. Federal Regulations****TSCA:**

All ingredients of this product are listed, or are exempt from listing, on the TSCA Inventory.

The following RCRA code(s) applies to this material if it becomes waste: D001, D019

**Regulatory status of hazardous chemical constituents of this product:**

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
Methacrylic acid	No	No	No	Not required
Methyl Methacrylate Monomer	No	Yes	No	Required

\*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substances list.

\*\*Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. Consult the appropriate regulations for specific requirements.

**Classification of this material for SARA Section 312 hazardous materials inventory reporting:**

Immediate health hazard    Delayed health hazard    Fire hazard    Reactivity hazard

**Regulatory notes:**

In normal use, the methyl methacrylate in this product is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC (i.e. MMA) emitted is negligible (less than 5%). Actual emissions are a function of substrate and process and should be considered on an individual basis.

**Canadian regulations**

WHMIS hazard class(es):    B2; D2B

**16. OTHER INFORMATION**

Hazardous Materials Information System (HMIS) ratings:		
Health	Flammability	Reactivity
2*	3	2

The information and recommendations in this document are based on the best information available to us at the time of preparation, but we make no other warranty, express or implied, as to its correctness or completeness, or as to the results of reliance on this document.

**MA 300 ACTIVATOR**

Last revised: 11/16/99

Printed: 05/03/00

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Chemical family Acrylate

General information: Adhesive

**MANUFACTURER**

ITW Plexus  
30 Endicott St.  
Danvers, Massachusetts 01923

**EMERGENCY INFORMATION**

Emergency telephone number  
(CHEMTREC) (800) 424-9300  
Other calls: (978) 777-1100

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS CONSTITUENTS	Constituent	Abbr.	CAS No.	Weight percent	Exposure limits		
					ACGIH TLV	OSHA PEL	Other Limits
	3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylp yridine		34562317	1-10	n/e	n/e	n/e
	Methyl Methacrylate Monomer	MMA	80626	70-80	100 ppm	100 ppm	100 ppm (Canada)

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) as established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (\*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

**3. HAZARDS IDENTIFICATION****Emergency Overview**

Appearance, physical form, odor: Paste with varied fragrant odor.

**WARNING! Flammable.** Overexposure to liquid, mist or vapor may have the following effects: **EYE AND SKIN EXPOSURE:** Irritant and potential skin sensitizer. May cause redness, itching, burning, rash. **RESPIRATORY EXPOSURE:** Irritant. May cause headache, nausea, dizziness, fatigue, drowsiness. Avoid breathing vapor. Use with adequate ventilation or use proper respiratory equipment. Wash thoroughly after handling. Do not take internally. Keep away from heat, sparks, open flames.

**Potential health effects:****Primary routes of exposure:**

Skin contact     Skin absorption     Eye contact     Inhalation     Ingestion

**Symptoms of acute overexposure:****Skin:**

May cause irritation and sensitization. MMA may be absorbed through the skin.

**Eyes:**

Liquid and vapors causes moderate irritation (burning sensation, tearing, redness, swelling). May cause corneal damage.

**Inhalation:**

High concentration is irritant to respiratory tract and may cause dizziness, headache, and anaesthetic effects.

**Ingestion:**

Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**Effects of chronic overexposure:**

Prolonged exposure may lead to kidney, lung, heart and liver damage.

**Medical conditions which may be aggravated by exposure:**

Preexisting eye and skin disorders and diseases of the lung.

**Carcinogenicity -- OSHA regulated:** No    **ACGIH:** No    **National Toxicology Program:** No

**International Agency for Research on Cancer:** No

**Cancer-suspect constituent(s):**

**Other effects:**

Developmental toxicity observed in animal tests with MMA at levels toxic to the mother. Overexposure to pyridine and some of its derivatives may include weakness, dizziness, nausea, loss of consciousness, loss of appetite, and sleep disturbances.

**4. FIRST AID MEASURES****First aid for eyes:**

Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Get immediate medical attention.

**First aid for skin:**

Immediately remove contaminated clothing and excess contaminant. Flush skin with water. Wash thoroughly with warm soap and water. Consult a physician if irritation develops.

**First aid for inhalation:**

Remove patient to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms persist.

**First aid for ingestion:**

Do NOT induce vomiting. Give two glasses of water to dilute if patient is conscious. Get medical attention.

**5. FIRE FIGHTING MEASURES****Extinguishing media:** Water Carbon dioxide Dry chemical Foam Alcohol foam**Flash Point (°F):** 50**Method:** TCC**Explosive limits in air -- Lower:** 2.1**Upper:** 12.5**Special firefighting procedures:**

Keep personnel removed and upwind from fire. Wear self contained breathing apparatus and full protective equipment. Cool tank with water spray. Fight fire from a distance as the heat may rupture the tanks.

**Unusual fire and explosion hazards:**

Sealed containers at elevated temperatures may rupture due to polymerization. Vapors are heavier than air and may travel to ignition sources and flash back.

**Hazardous products of combustion:**

Toxic vapors may be released upon thermal decomposition (cyanide, nitrogen oxides).

**6. ACCIDENTAL RELEASE MEASURES****Spill control:**

Avoid personal contact. Eliminate ignition sources. Ventilate area.

**Containment:**

Dike, contain and absorb with clay, sand or other suitable non-combustible material.

**Cleanup:**

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly (RCRA hazardous waste). Add inhibitor to prevent polymerization.

**Special procedures:**

Prevent spill from entering drainage/sewer systems, waterways, and surface waters. Use non-sparking tools

**7. HANDLING AND STORAGE****Handling precautions:**

Do not breathe vapor or mist. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Close container after each use. Ground container when pouring. Keep away from heat, flame or sparks. Use non-sparking tools.

**Storage precautions:**

Keep in a cool place, without direct exposure to sunlight. Keep container tightly closed and otherwise in accordance with NFPA regulations. Maintain air space in storage containers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering controls****Ventilation:**

Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

**Other engineering controls:**

Keep container tightly closed. Observe label precautions. Have emergency eye wash and safety shower present.

**Personal protective equipment****Eye and face protection:**

Wear safety glasses. Wear coverall chemical splash goggles and face shield when eye and face contact is possible.

**Skin Protection:**

Wear impervious butyl rubber clothing as appropriate to prevent contact.

**Respiratory protection:**

A NIOSH/MSHA air purifying respirator with an organic vapor cartridge may be permissible, however use a positive pressure air supplied respirator if there is any potential for uncontrolled release, or unknown exposure levels.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Specific gravity:</b>	0.96	<b>Boiling point (°F):</b>	213
<b>Melting point (°F):</b>	n/d	<b>Vapor density (air = 1):</b>	3.5
<b>Vapor pressure (mmHg):</b>	28 mm Hg	<b>Evaporation rate (butyl acetate = 1):</b>	3
	at 68 °F	<b>Solubility in water:</b>	n/d
<b>VOC (grams/liter):</b>	< 50 mixed	<b>pH (5% solution or slurry in water):</b>	4.5-5.5
<b>Percent volatile by volume:</b>	n/d		0
<b>Percent solids by weight:</b>	n/d		

**10. STABILITY AND REACTIVITY**

This product is chemically stable.

Hazardous polymerization may occur.

**Conditions to avoid:**

Unstable with heat, direct sunlight, inert gas blanketing, ultraviolet radiation.

**Incompatible materials:**

Incompatible with strong oxidizing agents and reducing agents, acids and bases. Material is a strong solvent and can soften paint and rubber.

**Hazardous decomposition products:**

Carbon monoxide, carbon dioxide, nitrogen oxides, cyanide and smoke.

**Conditions of hazardous polymerization:**

Excessive heat, storage in the absence of inhibitor and inadvertant addition of catalyst.

**11. TOXICOLOGICAL INFORMATION****Acute oral effects:**

LD50 (rat): Not available.

Toxicity of MMA exposed near LD50 include blood in the urine and liver changes.

**Acute dermal effects**

LD50 (rabbit): Not available.

Dermatitis.

**Acute inhalation effects:**

LC50 (rat): Not available. in 4 hours

Toxicity of MMA at 8-100 times TLV from respiratory and gastrointestinal irritation, lung damage, nervous system effects and blood in urine.

**Eye irritation:**

Not available.

**Subchronic effects**

Inhalation: Repeated exposure of MMA at 5-100 times the TLV include lung damage, pulmonary irritation, liver changes, eye irritation, nasal tissue changes, incoordination and upper respiratory irritation. Ingestion: Liver and kidney affects with altered function in both organs. Skin permeation may occur.

**Chronic effects**

Inhalation: long term exposure of MMA caused inflammation of the nasal cavity, changes in nasal sensory cells and decreased body weight. Ingestion: Can cause decreased body weight, and increased kidney weight

**Carcinogenicity, teratogenicity, and mutagenicity:**

Possible reproductive hazard based on animal data.

**Toxicological information on hazardous chemical constituents of this product:**

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat, 4 hours)
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	> 500 mg/kg	> 1000 mg/kg	n/d
Methyl Methacrylate Monomer	7872 mg/kg	> 5000 mg/kg	7093 ppm

**12. ECOLOGICAL INFORMATION****Ecotoxicity:**

MMA has: estimate of 96 hour median threshold limit: 100-1,000 ppm; 96 hour LC50, fathead minnow: 150 ppm; 96 hour LC50, bluegill sunfish: 232 ppm

**Mobility and persistence:**

MMA is partially biodegradable in water. BOD-5 day: 0.14 g/g - 0.90 g/g; THOD : 1.92 g/g

**Environmental fate:**

MMA produces high tonnage material in wholly contained systems. Liquid with moderate mobility. Sparingly soluble in water. High potential for bioaccumulation. Low mobility in soil.

**13. DISPOSAL CONSIDERATIONS****Waste management recommendations:**

Do not dispose of in a landfill. Incineration is the preferred method of disposal.

**14. TRANSPORT INFORMATION**

Proper shipping name: Adhesives

Technical name: N/A

Hazard class: 3

UN number: 1133

Packing group: II

IMDG Page no.: 3174

Emergency Response Guide no.: 127

Other: Containers < 30 liters are PG III

Depending on the size and type of container, this material may be reclassified as "Consumer Commodity, ORM-D" for shipments within the United States, or as "Limited Quantity" elsewhere. Refer to the appropriate regulation.

**15. REGULATORY INFORMATION****U.S. Federal Regulations****TSCA:**

All ingredients of this product are listed, or are exempt from listing, on the TSCA Inventory.

The following RCRA code(s) applies to this material if it becomes waste: D001

**Regulatory status of hazardous chemical constituents of this product:**

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	No	No	No	Not required
Methyl Methacrylate Monomer	No	Yes	No	Required

\*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substances list.

\*\*Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. Consult the appropriate regulations for specific requirements.

**Classification of this material for SARA Section 312 hazardous materials inventory reporting:**

Immediate health hazard    Delayed health hazard    Fire hazard    Reactivity hazard

**Regulatory notes:**

In normal use, the methyl methacrylate in this product is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC (i.e. MMA) emitted is negligible (less than 5%). Actual emissions are a function of substrate and process and should be considered on an individual basis.

**Canadian regulations**

WHMIS hazard class(es): B2; D2B

**16. OTHER INFORMATION**

Hazardous Materials Information System (HMIS) ratings:		
Health	Flammability	Reactivity
2*	3	2

The information and recommendations in this document are based on the best information available to us at the time of preparation, but we make no other warranty, express or implied, as to its correctness or completeness, or as to the results of reliance on this document.



# MATERIAL SAFETY DATA SHEET

*Catalyst*

## NOROX® MEKP-9

Syrgis Performance Initiators, Inc.  
Helena, AR

### SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY

PRODUCT NAME	NOROX® MEKP-9	TELEPHONE	870-572-2935
MANUFACTURER	Syrgis Performance Initiators, Inc.	CHEMTREC (24hr) (USA)	800-424-9300
ADDRESS	334 Phillips 311 Rd., Helena, AR 72342	(Maritime/International)	703-527-3887
CHEMICAL NAME	Methyl Ethyl Ketone Peroxide (MEKP)	CAS NO.	See Section 2
CHEMICAL FAMILY	Organic Peroxide - Ketone Peroxide	CHEMICAL FORMULA	Mixture

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	%
Methyl Ethyl Ketone Peroxide	1338-23-4	34
Dimethyl Phthalate	131-11-3	43
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	20
Hydrogen Peroxide	7722-84-1	01
Methyl Ethyl Ketone	78-93-3	02
Water	7732-18-5	01

### SECTION 3 - HAZARD IDENTIFICATION OF THE PREPARATION

PHYSICAL HAZARDS	Organic Peroxide. Decomposition.
HEALTH HAZARDS	Severe Irritant.
EXPOSURE LIMITS	The ACGIH Ceiling STEL is 1.5 mg/m <sup>3</sup> (0.2 ppm) for Methyl Ethyl Ketone Peroxide.
ROUTES OF EXPOSURE	
Skin Contact	Severe skin irritant, causes redness, blistering, and edema.
Eye Contact	Eye contact causes severe corrosion and may cause blindness.
Ingestion	Human systemic effects by ingestion: changes in structure or function of esophagus, nausea, or vomiting, and other gastrointestinal effects.
Inhalation	Moderately toxic by inhalation.
EFFECTS OF OVER-EXPOSURE	Prolonged inhalation of vapors may cause mucous membrane irritation and vertigo. There are no known medical conditions, which are recognized as being aggravated by exposure.

### SECTION 4 - FIRST-AID MEASURES

Skin	Immediately remove any contaminated clothing. Wash contaminated area thoroughly with soap and copious amounts of water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
Eyes	Remove any contact lenses at once. Flush eyes with water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. If irritation or adverse symptoms develop, seek medical attention.
Ingestion	Do Not induce vomiting. Drink plenty of water. Immediately call a physician. For aid to physician, suggest local Poison Control Center.
Inhalation	Remove to fresh air, if coughing, breathing becomes labored, irritation develops or other symptoms develop, seek medical attention at once, even if symptoms develop several hours after the exposure.

### SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT	>200°F (93°C) C.O.C.
FLAMMABLE LIMITS	Not established.
AUTOIGNITION POINT	Not established.
EXTINGUISHING MEDIA	Water from a safe distance - preferably with a fog nozzle. In case of very small fires, other means such as carbon dioxide, foam or dry chemical extinguishers may be effective. Dry chemical combined with MEKP formulations may re-ignite. Light water additives may be particularly effective at extinguishing MEKP fires.
SPECIAL FIRE FIGHTING PROCEDURES	Firemen should be equipped with protective clothing and SCBA's. In case of fire near storage area, cool the containers with water spray. If dry chemical is used to extinguish an MEKP fire, the extinguished area must be thoroughly wetted down with water to prevent re-ignition.



**NOROX® MEKP-9**

**UNUSUAL FIRE AND EXPLOSION HAZARDS** The heat of decomposition of the peroxides adds to the heat of the fire. Dry chemical fire extinguishing agent may catalyze the decomposition.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE** Dike spill to prevent runoff from entering drains, sewers, streams, etc. Wet spilled material with water and absorb with an inert absorbent material such as perlite, vermiculite, or sand. Sweep up using non-sparking tools and place in a clean polyethylene drum or a polyethylene pail. **DO NOT place into a steel container, lined or unlined, as a decomposition may occur.** Treat any contaminated cardboard packaging as hazardous waste. **Wet container contents with additional water prior to sealing.**

**SECTION 7 - HANDLING AND STORAGE**

**HANDLING** Rotate stock using the oldest material first. Avoid contact with skin, eyes and clothing. Use PPE as specified in Section 8. Keep containers closed to prevent contamination. Keep away from sources of heat, sparks or flame. Do not add to hot solvents or monomers as a violent decomposition and/or reaction may result. When using spray equipment, never spray raw MEKP onto curing or into raw resin or flues. Keep MEKP in its original container. **DO NOT USE NEAR FOOD OR DRINK.** Wash thoroughly after handling.

**STORAGE** The stability of MEKP formulations is directly related to the shipping and storage temperature history. Cool storage at 80°F or below is recommended for longer shelf life and stability. Prolonged storage at elevated temperatures of 100°F and higher will cause product degradation, gassing and potential container rupture which can result in a fire and/or explosion. Store out of direct sunlight in a well ventilated area away from combustible and incompatible materials. **DO NOT STORE WITH FOOD OR DRINK.** Refer to NFPA 432 Code for the Storage of Organic Peroxide Formulations from the National Fire Protection Association for additional storage information.

**OTHER PRECAUTIONS** Unmixed, uncontaminated material, remaining at the end of the day, shall be returned to a proper organic peroxide storage area. Under no circumstances should material be returned to the original container.

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

**VENTILATION** Mechanical, general.

**RESPIRATORY PROTECTION** If airborne concentrations are expected to exceed acceptable levels wear a NIOSH approved air-purifying respirator with an organic vapor cartridge or canister. When using respirators refer to OSHA's 29CFR 1910.134.

**EYE PROTECTION** Safety goggles recommended. Permanent eyewash is highly recommended.

**HAND PROTECTION** Protective gloves recommended, solvent resistant, such as butyl rubber, nitrile or neoprene.

**OTHER** A safety shower and eyewash is recommended when the risk of a significant exposure exists.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR:</b>	Water white liquid with a slight odor.		
<b>BOILING POINT:</b>	Not established.	<b>SPECIFIC GRAVITY:</b>	1.1
<b>VAPOR PRESSURE:</b>	Not established.	<b>FLASH POINT:</b>	>200°F (93°C) C.O.C.
<b>VAPOR DENSITY:</b>	> 1	<b>FLAMMABLE LIMITS:</b>	Not established.
<b>EVAPORATION RATE:</b>	Not established.	<b>SADT:</b>	>60°C (140°F)
<b>% VOLATILE BY VOLUME:</b>	Not established.	<b>pH:</b>	Not applicable.
<b>SOLUBILITY IN WATER:</b>	Slightly soluble in water.		

**SECTION 10 - STABILITY AND REACTIVITY**

**STABILITY** Stable when kept in original, closed container, out of direct sunlight at temperatures below 80°F (27°C).

**CONDITIONS TO AVOID** Contamination. Direct sunlight. Open flames. Prolonged storage above 100°F (38°C). Storage above SADT. Storage near flammable or combustible materials.

**NOROX® MEKP-9**

<b>MATERIALS TO AVOID</b>	Dimethylaniline, cobalt naphthenate and other promoters, promoted resins, accelerators, oxidizing and reducing agents, strong acids, bases, metals, metal alloys and salts, sulfur compounds, amines or any hot material.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Decomposition products are flammable. Acrid smoke and irritating fumes.
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION****Methyl Ethyl Ketone Peroxide****Hazard Data:**

**Inhalation:** Rat--LC<sub>50</sub>: 200 ppm/4 hr, lung, thorax, respiration, or dyspnea; Mouse--LC<sub>50</sub>: 170 ppm/4 hr, lung, thorax, respiration, or dyspnea.

**Intraperitoneal:** Rat--LD<sub>50</sub>: 65 mg/kg, behavioral, muscle weakness behavioral, ataxia.

**Oral:** Rat--LD<sub>50</sub>: 484 mg/kg; Mouse--LD<sub>50</sub>: 470 mg/kg; Human--TD<sub>Lo</sub>: 480 mg/kg, changes in structure or function of esophagus gastrointestinal, nausea or vomiting gastrointestinal.

**Skin:** Rabbit--LD<sub>50</sub>: 500 mg.

**Dimethyl Phthalate****Hazard Data:**

**Inhalation:** Cat--LC<sub>Lo</sub>: 9300 mg/m<sup>3</sup>/6.5 hr.

**Intraperitoneal:** Mouse--LD<sub>50</sub>: 1380 mg/kg.

**Oral:** Rat & Mouse--LD<sub>50</sub>: 6800 mg/kg, somnolence behavioral, withdrawal nutritional and gross metabolic, weight loss or decreased weight gain; Dog--LD: >1400 mg/kg; Rabbit--LD<sub>50</sub>: 4400 µL/kg.

**Subcutaneous:** Mouse--LD<sub>Lo</sub>: 6500 mg/kg, dyspnea lung, thorax, respiration, or cyanosis.

**2,2,4-Trimethyl-1,3-pentanediol diisobutyrate****Hazard Data:**

**Oral:** Rat--LD<sub>50</sub>: >3200 mg/kg

**Hydrogen Peroxide****Hazard Data:**

**Inhalation:** Mouse--LC<sub>Lo</sub>: 227 ppm; Rat--TC<sub>Lo</sub>: 67 ppm/6hr/6W-1, dermatitis, irritative of the skin.

**Intraperitoneal:** Mouse--LD<sub>50</sub>: 880 mg/kg.

**Intravenous:** Rabbit--LD<sub>50</sub>: 15 gm/kg, behavioral, convulsions or effect on seizure threshold.

**Oral:** Rat--LD<sub>50</sub>: 376 mg/kg, gastrointestinal, peritonitis blood, pigmented or nucleated red blood cells; Mouse--LD<sub>50</sub>: 2 mg/kg.

**Subcutaneous:** Rat--LD<sub>50</sub>: 620 mg/kg; Mouse--LD<sub>50</sub>: 1072 mg/kg.

**Skin:** Rat--LD<sub>50</sub>: 4060 mg/kg, lung, thorax, respiration, or pulmonary emboli; Rabbit--LD<sub>Lo</sub>: 500 mg/kg, behavioral, convulsions or effect on seizure threshold.

**Methyl Ethyl Ketone****Hazard Data:**

**Eye:** Human: 350 ppm.

**Inhalation:** Rat--LC<sub>50</sub>: 23500 mg/m<sup>3</sup>/8hr.

**Intraperitoneal:** Rat--LD<sub>50</sub>: 607 mg/kg; Mouse--LD<sub>50</sub>: 616 mg/kg.

**Oral:** Rat--LD<sub>50</sub>: 2737 mg/kg; Mouse--LD<sub>50</sub>: 4050 mg/kg.

**Skin:** Rabbit--LD<sub>50</sub>: 6480 mg/kg.

**SECTION 12 - ECOLOGICAL INFORMATION**

No data is available on the preparation itself. The product should be prevented from entering drains, sewers, streams, etc.

**Ecotoxicity:** Methyl ethyl ketone peroxide: EC<sub>50</sub> (Guppy), 44.2 mg/L/96 hr; EC<sub>50</sub> (alga), 42,700 µg/L/96 hr.

**Environmental Fate:** Methyl ethyl ketone peroxide (MEKP) was evaluated for biodegradability in a closed bottle system and was reported to be readily biodegradable. An EC<sub>50</sub> of 16mg MEKP/L activated sludge was reported in an activated sludge respiration inhibition test.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Prevent material from entering drains, sewers, streams, etc.

Immediately dispose of waste material at a RCRA approved hazardous waste management facility in accordance with federal, state and local regulations.

**NOROX<sup>®</sup> MEKP-9****SECTION 14 - TRANSPORT INFORMATION**

**DOT Shipping Name:** ORGANIC PEROXIDE TYPE D, LIQUID  
 (METHYL ETHYL KETONE PEROXIDE, ≤45%)  
**DOT Hazard Class:** 5.2  
**UN/NA ID No.:** UN3105  
**DOT Packing Group:** PG II  
**DOT RQ:** RQ (if shipping container is greater than 29.4 lbs)  
**Labels:** 5.2 (Organic Peroxide)  
**2004 ERG GUIDE NO.:** 145

**SECTION 15 - REGULATORY INFORMATION**

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent</u>
Dimethyl Phthalate	131-11-3	43
Methyl Ethyl Ketone	78-93-3	02

**Reportable Quantity**

2-Butanone Peroxide (MEKP): 10 lbs (4.54 kg)

**Australian Inventory of Chemical Substances (AICS)**

The ingredients in this product are listed in the Australian AICS Inventory.

**Canadian Domestic Substances List (DSL)**

The ingredients in this product are listed in the Canadian DSL Inventory.

**Chinese Inventory of Existing Chemical Substances Manufactured or Imported in China (IECSC)**

The ingredients in this product are listed in the Chinese IECSC Inventory.

**European Inventory of Existing Commercial Chemical Substances (EINECS)**

The ingredients in this product are listed in the European EINECS Inventory.

**Japanese Existing and New Chemical Substances (ENCS)**

The ingredients in this product are listed in the Japanese ENCS Inventory.

**Korean Existing Chemicals List (ECL)**

The ingredients in this product are listed in the Korean ECL Inventory.

**US Toxic Substances Control Act (TSCA)**

The ingredients in this product are listed in the US TSCA Inventory.

**Status of Carcinogenicity**

Not recognized as a carcinogen by the IARC, NTP or OSHA.

**SECTION 16 - OTHER INFORMATION****VOC Information**

Using ASTM Test Method D-2369-87, but at 40°C (since MEKP decomposes rapidly above 100°C and is not a VOC), MEKP-9 contains 2.4% VOC, by weight, or 27 grams per liter. For more information call Norac.

**NFPA 432 Organic Peroxide Classification**

Class III

**NFPA 704 Rating**

<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>
3	2	2

**HMIS Rating**

<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>
3	2	2

**MSDS Reference:** MEKP-9 MSDS 0709

**DISCLAIMER OF LIABILITY**

The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.



MATERIAL SAFETY DATA SHEET

Westech Aerosol Corporation
Olympic View Industrial Park
5405 Constance Drive SW
Port Orchard, WA 98367

Allan

Chemtrec Emergency Phone: 800-424-9300
Westech Emergency Phone: 360-674-2051
Date Prepared: 5-20-03
Date Revised: 2-17-06

Section 1 - Identity (Canisters)

Label Name: Westech Marine High Strength & Multipurpose Adhesive
Trade Name: Westech HS-MAC18, MP-MAC18, and MPEA

Section 2 - Hazardous Ingredients

Components- Hazardous Components 1% or greater.

Table with 6 columns: Chemical Name, CAS Number, Sara III List, OSHA (PPM), ACGIH TLV(PPM), Carcinogen Ref. Source. Rows include Acetone and Cyclohexane.

Section 3 - Physical and Chemical Characteristics

Propellant: Non-flammable proprietary
VOC: <80 grams per liter (SCAQMD rule 443.1 and 1168)
HAP's: 0%
Boiling Point: 145°F
Specific Gravity: Concentrate Only 0.6-.8
Vapor Pressure: 125mm
Evaporation Rate: >1
Solubility in Water: Negligible
Water Reactive: No
Appearance and Odor: Clear, organic solvent odor

Handwritten note: shows calc for as applied less h2o & exempts

Section 4 - Fire and Explosion Hazard Data

Flammability as per Flame Projection Test (16 CFR 1500.45)
Flammable (flash point closed cup = - 4°F)
Limits: LEL: 1.3%, UEL: 12.8%
Extinguishing Media: Dry Chemical, CO2
Unusual Fire and Explosion Hazards: At elevated temperatures (over 130F), containers may vent, rupture or burst releasing flammable vapors.

r youdelis @ OK2spray.com

Handwritten notes: 9 lb, 27 lb, 135 lb (circled)

Handwritten notes: Allan 877 674-2010 12/20 12/23, Rob 12/20 12/23

Handwritten note: 1 as applied as applies less h2o & exempts

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**Section 5 - Health Hazard Data**

**Primary Routes of Entry:** Inhalation and Skin

**Acute Effects:** Liquid is irritating to eyes and Skin. Prolonged exposure to skin can cause a burning sensation. Breathing vapors may cause lightheadedness, dizziness, headache, and nausea in extreme cases unconsciousness and death.

**Chronic Effects:** Prolonged and repeated exposure may produce depression, fatigue loss of appetite, vomiting, cough, loss of sense of balance, dermatitis and nerve damage.

**Medical Conditions generally aggravated by Exposure:** Existing eye, skin or upper respiratory conditions.

**Emergency and First Aid Procedures:**

**Eye Contact:** Flush with water for 15 minutes, seek medical attention

**Skin Contact:** Wash with soap and water, if irritated seek medical attention

**Inhalation:** Remove to fresh air. Resuscitate if necessary, get medical attention

**Ingestion:** Do not induce vomiting, get medical attention.

---

**Section 6 - Reactivity Data**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Incompatibility:** Strong oxidizing agents

**Conditions to Avoid:** Open flames and high heat.

---

**Section 7 - Precautions for Safe Handling**

**Use Respiratory Protection:** If vapor concentration exceeds TLV, use respirator approved by NIOSH

**Ventilation:** Use ventilation to keep vapor concentration below TLV.

**Eye Protection:** Safety Goggles Recommended

**Waste Disposal Method:** Dispose of in accordance with all Federal, state, and local regulations.

**Steps to be taken in Case Material is Released or Spilled:** Remove all sources of ignition. Ventilate spill area to allow solvents to evaporate and collect in suitable containers for disposal. Use appropriate person protective equipment.

**Precautions to be taken in Handling and Storage:** Store containers in cool, dry area. Do not puncture or incinerate containers.

---

**Section 8 - Control Measures**

**Respiratory Protection:** If workplace exposure is exceeded a NIOSH approved respirator is advised.

**Ventilation:** Provide sufficient mechanical ventilation to maintain exposure below PEL.

**Eye Protection:** Use chemical splash goggles

---

**Section 9 - Shipping Information**

**Proper Shipping Name:** Adhesives

**Hazard Class:** 3

**Identification Number:** UN1133

**Packing Group:** III

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*We believe the statements, technical information and recommendations contained herein are reliable, they are given without warranty or guarantee of any kind.*

# MATERIAL SAFETY DATA SHEET

Date Prepared: 2/28/06  
SC-VELR-4000

Page: 1 of 7  
MSDS Number: 103409

## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Material Identity

Product Name: SC-VELR-4000  
Product Numbers: 103409  
Product Use: Laminating Resin

### Company

ITW SprayCore  
a Division of Illinois Tool Works Inc.  
11701 56<sup>th</sup> Court N  
Clearwater, FL USA  
Phone: 513-489-7600

### Emergency Telephone Numbers:

CHEMTREC: 1-800-424-9300  
CANUTEC: 1-613-996-6666

Prepared By: Safety Department

## SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	EINECS Number	% (by weight)
Vinyl ester resin	Proprietary	Proprietary	30 – 35
Polyester Resin	Proprietary	Proprietary	30 – 35
Styrene	100-42-5	20-851-5	32
Precipitated Silica	112926-00-8	N/L	0 – 3

## SECTION 3. HAZARDS IDENTIFICATION

### \*\*\*EMERGENCY OVERVIEW\*\*\*

WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED.  
CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION.

### Potential Health Effects

#### Acute Effects (Short Term):

**Eye:** Contact with liquid or vapor may result in irritation, redness, tearing, and blurred vision.

**Skin:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

**Swallowing:** Ingestion of this material may cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Aspiration of this material into the lungs due to vomiting may produce chemical pneumonitis which can be fatal.

**Inhalation:** Excessive inhalation of vapors may cause nasal and respiratory irritation, acute nervous system depression, fatigue, weakness, nausea, headache, and dizziness. Symptoms usually occur at air

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concentrations higher than the recommended exposure limits (See Section 8).

### Chronic Effects of Overexposure (Long Term):

**Styrene:** Excessive overexposure to styrene has been found to cause the following effects in humans and may aggravate pre-existing disorders of these organs; central nervous system effects, effects on hearing, mild effects on color vision and respiratory tract damage.

**Cancer Information:** The International Agency for Research on Cancer (IARC) has classified styrene as a group 2B carcinogen (possibly carcinogenic to humans). This classification is not based on evidence that styrene may be carcinogenic, but rather on a revised definition for Group 2B, and consideration of new data on styrene oxide (Group 2A). The IARC has classified crystalline silica as a group 1 carcinogen (sufficient evidence of carcinogenicity in humans). This material may contain trace amounts of chemicals considered to be carcinogenic by OSHA, (Benzene-IARC Group 1).

**Other Health Effects:** NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**Primary Route(s) of Entry:** Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

### SECTION 4. FIRST AID MEASURES

**Eyes:** Flush eyes gently with water for at least 15 minutes. Seek immediate medical attention.

**Skin:** Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing:** Consult a physician or poison control center immediately. DO NOT INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

**Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention;

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keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel.

### SECTION 5. FIRE FIGHTING MEASURES

**Flash Point:** 88 F (31 C)  
**Explosive Limit:** Lower: 1.1 % Upper: 6.1%  
**Autoignition Temperature:** 914 F (490C)  
**OSHA Flammability Class:** Flammable Liquid – Class IC

**Hazardous Products of Combustion:** May form toxic and corrosive gases: carbon dioxide, carbon monoxide, styrene oxide, aniline, nitrogen oxides hydrogen cyanide and various hydrocarbons.

**Fire and Explosion Hazards:** Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

**Extinguishing Media:** Regular foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions:** This product is flammable and insoluble in water. Use dry chemicals, carbon dioxide, alcohol foam or water spray for a small fire. For large fires use water spray or fog. Never direct a water jet in the container in order to prevent any splashing of this product which could cause spreading of the fire. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.

**NFPA Rating:** Health -2, Flammability -3, Reactivity -1

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**In Case of Spill:** Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbent and dispose of properly.

### SECTION 7. HANDLING AND STORAGE

**Handling:** All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe sanding dust, vapors or spray mist. Do not take internally. Close container after each use. **Keep out of reach of children.**

**Storage:** Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.



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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye Protection:** Chemical splash goggles in compliance with OSHA regulations are recommended.

**Skin Protection:** Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. A barrier cream may be used for additional skin protection. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory Protection:** Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below acceptable limits. Explosion-proof ventilation system is acceptable.

#### Exposure Guidelines:

Hazardous Ingredients	CAS Number	OSHA PEL/TWA	ACGIH TLV
Precipitated Silica	112926-00-8	20 mppcf	10 mg/m <sup>3</sup>
Styrene	100-42-5	100 ppm	20 ppm

Mppcf- millions of particles per cubic foot of air

N/E-Not Established

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	214 - 293 °F/ 100 - 145 °C	<b>Vapor Density:</b>	3.59 (styrene) (air =1)
<b>Specific Gravity / Density:</b>	1.05- 1.10/ 8.8- 9.2 lbs/gal	<b>Percent Volatiles by weight:</b>	32%
<b>Evaporation Rate:</b>	Slower than ethyl ether	<b>Physical State:</b>	Liquid (viscous)
<b>Melting Point:</b>	-23.1 °F / -30.6 °C (styrene)	<b>pH:</b>	Neutral
<b>Odor:</b>	Aromatic	<b>Solubility:</b>	Slightly soluble in water
<b>Vapor Pressure:</b>	4.5 mm Hg @ 20 C (styrene)	<b>Appearance:</b>	Orange brown liquid
<b>Octanol/Water Partition Coefficient:</b>	Unknown		
<b>VOC (as packaged-less exempts and water):</b>	2.67 lbs/gal 321 g/L	<b>VOC (as applied*- 2%by wt hardener- less exempts and water):</b>	NA

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<b>VHAP Content by weight – as packaged:</b>	31.7%	<b>VHAP Content by weight – as applied* - 2 % by weight hardener</b>	NA
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\*NOTE: The applied VOC and VHAP Content is lower than the packaged VOC and VHAP Content due to a reactive diluent (styrene) that reacts and becomes non-volatile (bonded in the solid material) when the hardener is added.

### SECTION 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Product may undergo hazardous polymerization if exposed to extreme heat.

**Hazardous Decomposition:** May form toxic and corrosive gases: carbon dioxide, carbon monoxide, styrene oxide, aniline, nitrogen oxides hydrogen cyanide and various hydrocarbons.

**Chemical Stability:** Stable under normal handling conditions.

**Incompatibility:** Avoid contact in uncontrolled conditions with: peroxides, strong acids, strong oxidizing agents, halogens and polymerization catalysts.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity Data:**

<b>Ingredient</b>	<b>CAS #</b>	<b>LD<sub>50</sub> Oral-Rat</b>	<b>LC<sub>50</sub> Inhalation-Rat</b>
Styrene	100-42-5	500 mg/kg	24 g/m <sup>3</sup> /4H

N/E-Not Established

**Carcinogenicity:** See Cancer Information, Section 3.

**Mutagenicity:** No significant evidence found.

**Teratogenicity:** No significant risk of birth defects or reproductive toxicity of styrene to humans.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Styrene is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits.

### SECTION 13. DISPOSAL CONSIDERATION

**RCRA Hazardous Waste:** This material as supplied, if discarded, would be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state, and local regulations.

**RCRA Hazard Class:** This material would be regulated as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

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### SECTION 14. TRANSPORT INFORMATION

**DOT Description:** The DOT Classification for shipping is dependant on quantity, type of packaging (a kit may include other components), or method of shipment.

### SECTION 15. REGULATORY INFORMATION

#### US Federal Regulations

##### **TSCA (Toxic Substances Control Act) Status**

TSCA (USA) The intentional ingredients of this product are listed.

##### **CERCLA RQ - 40 CFR 302.4(a)**

<u>Component</u>	<u>RQ (lbs.)</u>
Styrene	1000

##### **SARA Title III: Section 302- Extremely Hazardous Substances**

none

##### **SARA Title III: Section 313- Toxic Chemical List**

<u>Component</u>	<u>CAS Number</u>	<u>Percentage</u>
Styrene	100-42-5	32%

##### **EPA Hazardous Air Pollutants (HAPS) 40 CFR 63**

<u>Component</u>	<u>CAS Number</u>	<u>Percentage</u>
Styrene	100-42-5	32%

#### International Regulations

**EINECS (Europe)** The intentional ingredients of this product are listed.

**DSL (Canada)** The intentional ingredients of this product are listed.

##### **WHMIS Classification**

**Health Hazard: D2A , D2B (Other Toxic Effects)**

**Physical Hazard: B2 (Flammable)**

#### State and Local Regulations

**California Proposition 65:** This product contains the following chemical(s) known to the state of California to cause cancer. STYRENE OXIDE, ETHYL BENZENE, BENZENE

Styrene, in the presence of air and high temperature or prolonged exposure of styrene/air mixture to sunlight, can react to form styrene oxide.

This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. TOLUENE, BENZENE

### SECTION 16. OTHER INFORMATION

**HMIS Rating:** Health -2, Flammability -3, Reactivity - 1

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Key- 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, \*=Chronic Effects

**Other Precautions for Use:** This product must be mixed with catalyst prior to use. Please refer to the Material Safety Data Sheet for catalyst before using. If product is to be sanded, the OSHA PEL/TLV of 10 mg/m<sup>3</sup> for nuisance dust should be observed.

Additional Information may be obtained by calling the Evercoat MSDS Hotline at 1-800-729-7600.

**NOTICE:** The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORSTAR VSXH-2200  
DESCRIPTION: BLENDED VINYL ESTER RESIN IN MONOMER  
PRODUCT CODE IDENTITY: VSXH2200B1 REVISION: 07  
NPCA HMIS RATING: H 2\* F 3 R 1 LAST REVISED : 09/13/2006  
DATE OF ISSUE: 07/15/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE PREPARED BY:  
NORTH KANSAS CITY, MO 64116 HAZARD COMMUNICATION DEPT.  
CUSTOMER: INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0510  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1720  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 34.8850 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)

LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

\*\*\*\*\*  
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\*\*\*\*\*

-----  
4  
UNSATURATED POLYESTER RESIN  
ON TSCA AND DSL INVENTORIES CAS# PROPRIETARY  
PCT BY WT: 30 - 40  
-----

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*  
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SECTION III PHYSICAL DATA  
-----

Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.1427 LB/GL  
Theoretical Specific Gravity, Calculated: 1.098  
Theoretical VOC, Calculated: 3.331 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: BLUE-GRAY  
Odor: STYRENE  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 34.935  
% MONOMER BY WEIGHT 34.884  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points less than 73 deg. F.  
OSHA Flammability Classification: Class IB  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
DOT Shipping Name:

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\*\*\*\*\*

DOT Shipping Name:

DOT Shipping Name:

Flash Points less than 73 deg. F. = RESIN SOLUTION, 3, UN1866, PG II

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 149980/SUB 2 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause pneumonitis which can be fatal.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either



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\*\*\*\*\*

humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene." An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. Lung effects have been observed in the mouse following repeated exposure to styrene.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:  
Elevated temperatures.  
INCOMPATIBILITY (MATERIALS TO AVOID):  
Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.  
WASTE DISPOSAL METHOD:  
Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:  
Do not breathe vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during use of this product until vapors are exhausted, unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.  
VENTILATION:  
Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits. Refer to OSHA Standard 1910.94.  
NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.  
PROTECTIVE GLOVES:  
Use solvent impermeable gloves to avoid contact with product.  
EYE PROTECTION:

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Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
SECTION X Sara Title III Information  
-----

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT

CAS# 027253-31-2 PCT BY WT: .0510

COBALT 2-ETHYLHEXANOATE, 12% COBALT

CAS# 000136-52-7 PCT BY WT: .1720

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 34.8850  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE

TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product

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if any defect in material or workmanship is found to exist. This exclusive  
remedy shall not be deemed to have failed its essential purpose so long as  
Seller is willing and able to replace the defective products or refund the  
purchase price.

*Mold Release*

Zyvax, Inc.  
(706) 698-4405 Phone. (706) 635 8103 Fax

Flex Z (1,2,3,4,5,6) Material Safety Data Sheet – Issue 2  
Rev. Date: December, 2004 Page 1 of 3

**MATERIAL SAFETY DATA SHEET (US)**

<b>MANUFACTURER:</b>	<b>ZYVAX INC.,</b>	<b>PRODUCT INFORMATION</b>
	<b>P. O. Box 1825</b>	
	<b>E.ELLIJAY,</b>	
	<b>GA 30539</b>	
	<b>USA</b>	
	<b>EMERGENCY CONTACT PHONE:</b>	
	<b>INSIDE USA:</b>	<b>(800) 424-9300</b>
	<b>OUTSIDE USA:</b>	<b>+(703) 527-3887</b>
	<b>NON EMERGENCY PHONE:</b>	<b>(706) 698-4405</b>
	<b>PREPARATION DATE:</b>	<b>September 2004</b>

**SECTION 1: IDENTIFICATION**

<b>PRODUCT NAMES:</b>	<b>Flex-Z 1.0</b>	<b>PRODUCT CODES:</b>	<b>FZ1RS</b>
	<b>Flex-Z 2.0</b>		<b>FZ2RS</b>
	<b>Flex-Z 3.0</b>		<b>FZ3RS</b>
	<b>Flex-Z 4.0</b>		<b>FZ4RS</b>
	<b>Flex-Z 5.0</b>		<b>FZ5RS</b>
	<b>Flex-Z 6.0</b>		<b>FZ6RS</b>
<b>DOT SHIPPING NAME:</b>	<b>RESIN SOLUTION</b>	<b>DOT ID NUMBER:</b>	<b>1866</b>
<b>DOT HAZARD CLASSIFICATION:</b>	<b>FLAMMABLE LIQUID</b>		
<b>PRODUCT APPEARANCE &amp; ODOR:</b>	<b>CLEAR ODORLESS LIQUID</b>		

**SECTION 2: COMPONENTS & HAZARD INFORMATION**

<b>COMPONENT</b>	<b>CAS No.</b>	<b>CONC. %WW</b>	<b>OSHA/TWA</b>	<b>ACGIH/TLV</b>
Aliphatic Hydrocarbon	64741-66-8	> 90%	100 ppm	100 ppm [PEL]
Proprietary Resin	N.E.	< 10%	N.E.	N.E.

These products contain no hazardous air pollutants (HAPs) nor any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372. All components are listed in the TSCA Inventory.

**SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS**

<b>BOILING RANGE:</b>	<b>208 - 219 °F</b>	<b>EVAPORATION RATE [BuAc = 1]:</b>	<b>4.3</b>
<b>SPECIFIC GRAVITY:</b>	<b>0.70</b>	<b>VAPOR PRESSURE [mm Hg]:</b>	<b>36.9 mm Hg @ 68°F</b>
<b>SOLUBILITY IN WATER:</b>	<b>Negligible</b>	<b>VAPOR DENSITY [Air = 1]:</b>	<b>NE</b>
<b>REACTION WITH WATER:</b>	<b>Slowly Polymerizes</b>	<b>VOLATILES:</b>	<b>&gt;90 %WW</b>

**SECTION 4: REACTIVITY DATA**

<b>STABILITY:</b>	<b>Stable</b>
<b>INCOMPATIBILITY:</b>	<b>Strong acids/bases, oxidizers.</b>
<b>CONDITIONS TO AVOID:</b>	<b>All sources of ignition, heat, flame, etc. [see Section 5 &amp; 10]</b>
<b>DECOMPOSITION PRODUCTS:</b>	<b>Combustion may yield carbon monoxide/dioxide, fumes, smoke</b>
<b>HAZARDOUS POLYMERIZATION:</b>	<b>Will not occur</b>

**SECTION 5: FIRE AND EXPLOSION INFORMATION**

FLASH POINT [ T CC]: >20 °F EXPLOSIVE LIMIT [% Vol.] UPPER 6.3 LOWER 0.9  
NFPA HAZARD CLASS HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0

UNUSUAL FIRE/EXPLOSION HAZARDS: This material is **FLAMMABLE**, and may be ignited by heat, sparks, or other sources of ignition. Vapors may travel considerable distances to a source of ignition where they may ignite, flashback, or explode. Vapor/air explosion hazard indoors/outdoors or in sewers. Vapors are heavier than air, and may accumulate in low areas. If container is not cooled properly, it may explode in the heat of a fire.

EXTINGUISHING MEDIA: Dry chemical, foam.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear appropriate protective equipment including respiratory protection as conditions warrant. Stop spill/release if it can be done without risk. Move undamaged containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors, and cooling equipment. Avoid spreading burning liquid with water used for cooling purposes.

**SECTION 6: HEALTH HAZARDS AND ROUTES OF ENTRY**

EYE CONTACT: May cause mild eye irritation. Direct contact with the liquid or exposure to the vapors or mists may cause stinging, tearing, and redness.

SKIN CONTACT: May cause mild skin irritation. Prolonged or repeated contact may cause redness, burning, and drying and cracking of the skin. No lasting harmful effects are known.

INHALATION: While this material has a low degree of toxicity, breathing high concentrations of vapors or mists may cause irritation of the nose and throat, and signs of nervous system depression [eg, headache, dizziness, loss of coordination, and fatigue]. Respiratory symptoms associated with pre-existing lung disorders [eg, asthma-like conditions] may be aggravated by exposure to this material.

INGESTION: Ingestion of excessive quantities may cause irritation of the digestive tract, and cause signs of nervous system depression. Aspiration hazard - can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

COMMENTS: This material has not been identified as a carcinogen by NTP, IARC, or OSHA. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

**SECTION 7: EMERGENCY AND FIRST-AID PROCEDURES**

EYE CONTACT: Flush with lots of clean water. If irritation or redness develops and persists, seek medical attention.

SKIN CONTACT: Remove contaminated clothing and wash affected areas thoroughly with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION: Move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

INGESTION: Aspiration hazard. Do not induce vomiting or give anything by mouth as this material can enter lungs and cause severe lung damage. If victim is drowsy or unconscious, place head on left side with the head down. If possible, do not leave victim unattended. Seek medical attention.

**SECTION 8: SPECIAL PROTECTION INFORMATION**

VENTILATION: Maintain airborne concentrations below the established exposure limits [see Section 2] via mechanical ventilation or exhaust systems as necessary.

RESPIRATORY PROTECTION: Respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration use a respirator or gas mask with appropriate cartridges or canisters [NIOSH approved] or supplied air equipment.

EYE PROTECTION: Approved eye protection [e.g., goggles with side shields] is recommended to safeguard against potential eye contact, irritation, or injury.

COMMENTS: A source of clean water should be readily accessible in the work area for flushing eyes and skin. Chemical and solvent resistant clothing should be worn. Good manufacturing practices should always be followed.

**SECTION 9: SPILL AND LEAK PROCEDURES**

**PRECAUTIONS IN CASE OF RELEASE OR SPILL:**

**FLAMMABLE.** Keep all sources of ignition and hot metal surfaces away from spill/release. Isolate hazard area and limit entry. Stop spill/release if it can be done without risk. Wear appropriate protective equipment as conditions warrant. Prevent spilled material from entering sewers, storm drains, and natural waterways. Dike far ahead of spill for later recovery and disposal. Use absorbent material for pick-up. Notify fire authorities and appropriate federal, state, and local agencies. Immediate clean-up of any spilled material is recommended.

**WASTE DISPOSAL METHODS:**

Dispose of product in accordance with local, state, and federal regulations.

**SECTION 10: STORAGE AND SPECIAL PRECAUTIONS**

**HANDLING & STORAGE PRECAUTIONS:**

Use and store this material in a cool, dry, well-ventilated area, away from heat and all sources of ignition. Keep containers closed. Store only in approved containers. Keep away from incompatible materials [ see Section 4 ]. Protect containers against physical damage. Do not enter confined spaces, such as tanks, without following proper entry procedures such as ASTM D-4276. The use of respiratory protection is advised when concentrations exceed the established exposure limits [ see Section 2 ]. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. "Empty" containers retain residue [ liquid and/or vapor ] and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to a drum reconditioner, or disposed of in an environmentally safe manner, and in accordance with government regulations. Refer to OSHA regulations ANSI Z49.1 before working on or in tanks which contained this product.

**SECTION 11: PRECAUTIONARY WARNING**

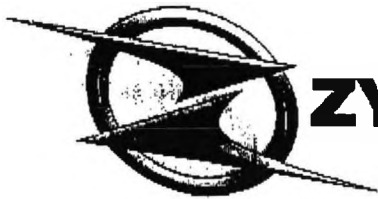
**WARNING !**

**FLAMMABLE . ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. KEEP AWAY FROM HEAT, SPARKS, FLAME, OR OTHER IGNITION SOURCES [ eg, STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT ]. DO NOT TASTE OR SWALLOW. IF SWALLOWED, CALL A PHYSICIAN. IN CASE OF CONTACT, FLUSH EYES OR SKIN WITH LOTS OF CLEAN WATER .**

**SECTION 12: DOCUMENTARY INFORMATION**

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

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# ZYVAX, INC.

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 Boca Raton, FL 33429  
 (561) 395-4405 • 800-858-4111  
 Fax: (561) 395-5262  
 E-mail: CCO@zyvax.com  
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Zyvax, Inc.  
 (706) 698-4405 Phone. (706) 635 8103 Fax

US Sealer GP Material Safety Data Sheet - Issue 1  
 Rev. Date: December 2005 Page 1 of 3

*Wood  
Sealer*

## MATERIAL SAFETY DATA SHEET (US)

<b>MANUFACTURER:</b>	ZYVAX INC. P. O. Box 1825 ELLIJAY GA 30540 USA	<b>PRODUCT INFORMATION</b>
		<b>EMERGENCY CONTACT PHONE:</b>
		INSIDE USA: (800) 424-9300
		OUTSIDE USA: +(703) 527-3887
		NON EMERGENCY PHONE: (706) 698-4405
		PREPARATION DATE: December 2005

### SECTION 1: IDENTIFICATION

<b>PRODUCT NAME:</b>	<b>SEALER GP</b>	<b>PRODUCT CODE:</b>	<b>SGPSS</b>
<b>DOT SHIPPING NAME:</b>	RESIN SOLUTION	<b>DOT ID NUMBER:</b>	UN1866
<b>DOT HAZARD CLASSIFICATION:</b>	FLAMMABLE LIQUID		
<b>PRODUCT APPEARANCE &amp; ODOR:</b>	COLOURLESS LIQUID WITH CHARACTERISTIC SOLVENT ODOR		

### SECTION 2: COMPONENTS & HAZARD INFORMATION

COMPONENT	CAS No.	CONC. %W/W	OSHA/TWA	ACGIH/TLV
Hydrotreated Naphtha	64742-48-9	> 90%	100 ppm	100 ppm [PEL]
Proprietary Resin	N.E.	< 10%	N.E.	N.E.

This product contains no chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372

### SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

<b>BOILING RANGE:</b>	320 - 360 °F	<b>EVAPORATION RATE [BuAc = 1]:</b>	0.21
<b>SPECIFIC GRAVITY:</b>	0.876	<b>VAPOR PRESSURE [mm Hg]:</b>	N.E.
<b>SOLUBILITY IN WATER:</b>	Negligible	<b>VAPOR DENSITY [Air = 1]:</b>	5
<b>REACTION WITH WATER:</b>	Slowly Polymerizes	<b>VOLOTTILES:</b>	> 90 %W/W

### SECTION 4: REACTIVITY DATA

<b>STABILITY:</b>	Stable
<b>INCOMPATIBILITY:</b>	Moisture strong acids/bases, oxidizers.
<b>CONDITIONS TO AVOID:</b>	All sources of ignition, heat, flama, etc. [see Saction 5 & 10]
<b>DECOMPOSITION PRODUCTS:</b>	Combustion may yield carbon monoxide/dioxide, fumes, smoke
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur



**SECTION 5: FIRE AND EXPLOSION INFORMATION**

FLASH POINT (T CC): >100 °F EXPLOSIVE LIMIT [% Vol.] UPPER 8 LOWER 0.9  
NFPA HAZARD CLASS HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0  
[HAZARD RANKING: 0 = LEAST 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME \* = CHRONIC HEALTH EFFECTS]

UNUSUAL FIRE/EXPLOSION HAZARDS: This material is **FLAMMABLE**, and may be ignited by heat, sparks, or other sources of ignition. Vapors may travel considerable distances to a source of ignition where they may ignite, flashback, or explode. Vapor/air explosion hazard indoors/outdoors or in sewers. Vapors are heavier than air, and may accumulate in low areas. If container is not cooled properly, it may explode in the heat of a fire.

EXTINGUISHING MEDIA: Dry chemical, foam.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear appropriate protective equipment including respiratory protection as conditions warrant. Stop spill/release if it can be done without risk. Move undamaged containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors, and cooling equipment. Avoid spreading burning liquid with water used for cooling purposes.

**SECTION 6: HEALTH HAZARDS AND ROUTES OF ENTRY**

EYE CONTACT: May cause mild eye irritation. Direct contact with the liquid or exposure to the vapors or mists may cause stinging, tearing, and redness.

SKIN CONTACT: May cause mild skin irritation. Prolonged or repeated contact may cause redness, burning, and drying and cracking of the skin. No lasting harmful effects are known.

INHALATION: While this material has a low degree of toxicity, breathing high concentrations of vapors or mists may cause irritation of the nose and throat, and signs of nervous system depression [e.g., headache, dizziness, loss of coordination, and fatigue]. Respiratory symptoms associated with pre-existing lung disorders [e.g., asthma-like conditions] may be aggravated by exposure to this material.

INGESTION: Ingestion of excessive quantities may cause irritation of the digestive tract, and cause signs of nervous system depression. Aspiration hazard - can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

COMMENTS: This material has not been identified as a carcinogen by NTP, IARC, or OSHA. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

**SECTION 7: EMERGENCY AND FIRST-AID PROCEDURES**

EYE CONTACT: Flush with lots of clean water. If irritation or redness develops and persists, seek medical attention.

SKIN CONTACT: Remove contaminated clothing and wash affected areas thoroughly with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION: Move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

INGESTION: Aspiration hazard. Do not induce vomiting or give anything by mouth as this material can enter lungs and cause severe lung damage. If victim is drowsy or unconscious, place head on left side with the head down. If possible, do not leave victim unattended. Seek medical attention.

**SECTION 8: SPECIAL PROTECTION INFORMATION**

**VENTILATION:** Maintain airborne concentrations below the established exposure limits [see Section 2] via mechanical ventilation or exhaust systems as necessary.

**RESPIRATORY PROTECTION:** Respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration use a respirator or gas mask with appropriate cartridges or canisters [NIOSH approved] or supplied air equipment.

**EYE PROTECTION:** Approved eye protection [e.g., goggles with side shields] is recommended to safeguard against potential eye contact, irritation, or injury.

**COMMENTS:** A source of clean water should be readily accessible in the work area for flushing eyes and skin. Chemical and solvent resistant clothing should be worn. Good manufacturing practices should always be followed.

**SECTION 9: SPILL AND LEAK PROCEDURES**

**PRECAUTIONS IN CASE OF RELEASE OR SPILL:**  
**FLAMMABLE.** Keep all sources of ignition and hot metal surfaces away from spill/release. Isolate hazard area and limit entry. Stop spill/release if it can be done without risk. Wear appropriate protective equipment as conditions warrant. Prevent spilled material from entering sewers, storm drains, and natural waterways. Dike far ahead of spill for later recovery and disposal. Use absorbent material for pick-up. Notify fire authorities and appropriate federal, state, and local agencies. Immediate clean up of any spilled material is recommended.

**WASTE DISPOSAL METHODS:**  
Dispose of product in accordance with local, state, and federal regulations.

**SECTION 10: STORAGE AND SPECIAL PRECAUTIONS**

**HANDLING & STORAGE PRECAUTIONS:**  
Use and store this material in a cool, dry, well-ventilated area, away from heat and all sources of ignition. Keep containers closed. Store only in approved containers. Keep away from incompatible materials [see Section 4]. Protect containers against physical damage. Do not enter confined spaces, such as tanks, without following proper entry procedures such as ASTM D-4276. The use of respiratory protection is advised when concentrations exceed the established exposure limits [see Section 2]. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. "Empty" containers retain residue [liquid and/or vapor] and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to a drum reconditioner, or disposed of in an environmentally safe manner, and in accordance with government regulations. Refer to OSHA regulations ANSI Z49.1 before working on or in tanks which contained this product.

**SECTION 11: PRECAUTIONARY WARNING**

**WARNING!**  
**FLAMMABLE. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. KEEP AWAY FROM HEAT, SPARKS, FLAME, OR OTHER IGNITION SOURCES [e.g., STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT]. DO NOT TASTE OR SWALLOW. IF SWALLOWED, CALL A PHYSICIAN. IN CASE OF CONTACT, FLUSH EYES OR SKIN WITH LOTS OF CLEAN WATER.**

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## MATERIAL SAFETY DATA SHEET (US)

**MANUFACTURER:** ZYVAX INC.,  
P. O. Box 1825  
E. ELLIJAY  
GA 30539.  
USA.

**PRODUCT INFORMATION**

**EMERGENCY PHONE:** (800) 424-9300  
**NON EMERGENCY PHONE:** (706) 698-4405

**PREPARATION DATE:** December 2001

### SECTION 1: IDENTIFICATION

**PRODUCT NAME:** SURFACE CLEANER

**PRODUCT CODE:** SFCCS

**DOT SHIPPING NAME:** COMPOUND, CLEANING LIQUID (2-BUTANONE)

**DOT ID NUMBER:** NA 1993 Domestic US or UN1993 (International Shipments Only)

**DOT HAZARD CLASSIFICATION:** FLAMMABLE LIQUID

**PRODUCT APPEARANCE & ODOR:** COLOURLESS LIQUID WITH CHARACTERISTIC SOLVENT ODOR

### SECTION 2: COMPONENTS & HAZARD INFORMATION

COMPONENT	CAS No.	CONC. %WW	OSHA/TWA	ACGIH/TLV
2-BUTANONE	78-93-3	30 - 50%	200.00	200.00 [TWA]
TOLUOL	108-88-3	50 - 70%	100.00	100.00 [TWA]

This product contains the following chemicals that are subject to the reporting requirements of SARA 313 and 40 CFR 372:

2-Butanone	CAS 78-93-3	30 - 50%
Toluol	CAS 108-88-3	50 - 70%

### SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

<b>BOILING RANGE:</b>	<b>175 - 232 °F</b>	<b>EVAPORATION RATE [BuAc = 1]:</b>	<b>3.2</b>
<b>SPECIFIC GRAVITY:</b>	<b>0.845</b>	<b>VAPOR PRESSURE [mm Hg]:</b>	<b>45</b>
<b>SOLUBILITY IN WATER:</b>	<b>2.5 - 45%</b>	<b>VAPOR DENSITY [Air = 1]:</b>	<b>2.85</b>
<b>REACTION WITH WATER:</b>	<b>None</b>	<b>VOLOILES:</b>	<b>100%</b>

### SECTION 4: REACTIVITY DATA

**STABILITY:** Stable

**INCOMPATIBILITY:** Strong acids/bases, oxidizers, alkali metals, halogens.

**CONDITIONS TO AVOID:** All sources of Ignition [see Section 5 & 9]

**DECOMPOSITION PRODUCTS:** Combustion may yield carbon monoxide/dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur

**SECTION 5: FIRE AND EXPLOSION INFORMATION**

FLASH POINT [T CC]: **36 °F** EXPLOSIVE LIMIT [% Vol.] UPPER **9.2** LOWER **1.4**  
NFPA HAZARD CLASS HEALTH: **1\*** FLAMMABILITY: **3** REACTIVITY: **0**  
[HAZARD RANKING: 0 = LEAST 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME \* = CHRONIC HEALTH EFFECTS]

UNUSUAL FIRE/EXPLOSION HAZARDS: This material is **FLAMMABLE**, and may be ignited by heat, sparks, or other sources of ignition. Vapors may travel considerable distances to a source of ignition where they may ignite, flashback, or explode. Vapor/air explosion hazard indoors/outdoors or in sewers. Vapors are heavier than air, and may accumulate in low areas. If container is not cooled properly, it may explode in the heat of a fire.

EXTINGUISHING MEDIA: Dry chemical, foam.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear appropriate protective equipment including respiratory protection as conditions warrant. Stop spill/release if it can be done without risk. Move undamaged containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors, and cooling equipment. Avoid spreading burning liquid with water used for cooling purposes.

**SECTION 6: HEALTH HAZARDS AND ROUTES OF ENTRY**

EYE CONTACT: May cause mild eye irritation. Direct contact with the liquid or exposure to the vapors or mists may cause stinging, tearing, and redness.

SKIN CONTACT: May cause mild skin irritation. Prolonged or repeated contact may cause redness, burning, and drying and cracking of the skin. No lasting harmful effects are known.

INHALATION: While this material has a low degree of toxicity, breathing high concentrations of vapors or mists may cause irritation of the nose and throat, and signs of nervous system depression [e.g., headache, dizziness, loss of coordination, and fatigue]. Respiratory symptoms associated with pre-existing lung disorders [e.g., asthma-like conditions] may be aggravated by exposure to this material.

INGESTION: Ingestion of excessive quantities may cause irritation of the digestive tract, and cause signs of nervous system depression. Aspiration hazard - can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

COMMENTS: This material has not been identified as a carcinogen by NTP, IARC, or OSHA. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. Toluol, a component of this product, causes harm to the fetus in laboratory animals. The relevance of these findings to humans is uncertain. Exposure to high concentrations of toluol can cause irreversible changes in the genetic material [DNA] of a cell. The human health consequences of these changes are not fully understood. Persons with pre-existing heart disorders may be more susceptible to irregular heartbeats [arrhythmias] if exposed to high concentrations of this material.

**SECTION 7: EMERGENCY AND FIRST-AID PROCEDURES**

EYE CONTACT: Flush with lots of clean water. If irritation or redness develops and persists, seek medical attention.

SKIN CONTACT: Remove contaminated clothing and wash affected areas thoroughly with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION: Move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, qualified personnel should administer oxygen. Seek immediate medical attention.

INGESTION: Potential aspiration hazard. If swallowed, seek emergency medical attention. If victim is drowsy or unconscious, place on the left side with the head down and do not give anything by mouth. Because of potential toxicity, if victim is conscious and alert, vomiting should be induced for ingestion of large amounts [more than 5 ozs. in adults] preferably with syrup of ipecac under direction from a physician or poison center. If possible, do not leave victim unattended.

**SECTION 8: SPECIAL PROTECTION INFORMATION**

**VENTILATION:** Maintain airborne concentrations below the established exposure limits [see Section 2] via mechanical ventilation or exhaust systems as necessary.

**RESPIRATORY PROTECTION:** Respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration use a respirator or gas mask with appropriate cartridges or canisters [NIOSH approved] or supplied air equipment.

**EYE PROTECTION:** Approved eye protection [e.g., goggles with side shields] is recommended to safeguard against potential eye contact, irritation, or injury.

**COMMENTS:** A source of clean water should be readily accessible in the work area for flushing eyes and skin. Chemical and solvent resistant clothing should be worn. Good manufacturing practices should always be followed.

**SECTION 9: SPILL AND LEAK PROCEDURES**

**PRECAUTIONS IN CASE OF RELEASE OR SPILL:**  
**FLAMMABLE.** Keep all sources of ignition and hot metal surfaces away from spill/release. Isolate hazard area and limit entry. Stop spill/release if it can be done without risk. Wear appropriate protective equipment as conditions warrant. Prevent spilled material from entering sewers, storm drains, and natural waterways. Dike far ahead of spill for later recovery and disposal. Use absorbent material for pick-up. Notify fire authorities and appropriate federal, state, and local agencies. Immediate clean up of any spilled material is recommended.

**WASTE DISPOSAL METHODS:**  
Dispose of product in accordance with local, state, and federal regulations.  
The following information may be useful in complying with various state and federal laws and regulations under various environmental statutes:

**REPORTABLE QUANTITY [RQ], EPA REGULATION 40 CFR 302 [CERCLA section 102]**  
The RQ for Toluol is 1000 lbs., equivalent to approx. 2000 lbs of this product.  
The RQ for 2-Butanone is 5000 lbs, equivalent to approx. 10,000 lbs of this product.

**THRESHOLD PLANNING QUANTITY [TPQ], EPA REGULATION 40 CFR 355 [SARA sections 301 - 304]**  
No TPQ for product or any constituent greater than 1.0 % or 0.1 % [carcinogen].

**TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 [SARA section 313]**  
This product contains approx. 30 - 50 % 2-Butanone  
This product contains approx. 50 - 70 % Toluol

**HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 [SARA sections 311 - 312]**  
**EPA HAZARD CLASSIFICATION CODE:** ACUTE CHRONIC FIRE PRESSURE REACTIVE  
XXX XXX XXX

**SECTION 10: STORAGE AND SPECIAL PRECAUTIONS**

**HANDLING & STORAGE PRECAUTIONS:**  
Use and store this material in a cool, dry, well-ventilated area, away from heat and all sources of ignition. Keep containers closed. Store only in approved containers. Keep away from incompatible materials [see Section 4]. Protect containers against physical damage. Do not enter confined spaces, such as tanks, without following proper entry procedures such as ASTM D-4276. The use of respiratory protection is advised when concentrations exceed the established exposure limits [see Section 2]. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. "Empty" containers retain residue [liquid and/or vapor] and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to a drum reconditioner, or disposed of in an environmentally safe manner, and in accordance with government regulations. Refer to OSHA regulations ANSI Z49.1 before working on or in tanks which contained this product.

**SECTION 11: PRECAUTIONARY WARNING**

**WARNING!**  
**FLAMMABLE. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. KEEP AWAY FROM HEAT, SPARKS, FLAME, OR OTHER IGNITION SOURCES [e.g., STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT]. DO NOT TASTE OR SWALLOW. IF SWALLOWED, CALL A PHYSICIAN. IN CASE OF CONTACT, FLUSH EYES OR SKIN WITH LOTS OF CLEAN WATER.**

**SECTION 12: DOCUMENTARY INFORMATION**

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

The information in this document is believed to be correct as of the date of issuance. However, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED, OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION, OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose, and on the condition that he assumes the risk of his use thereof.

\*\*\*\*\*  
\* STYPOL LSPA-2201  
\* MATERIAL SAFETY DATA SHEET  
\* LSPA2201B3  
\*\*\*\*\*

-----  
\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection above under OTHER LIMITS.  
\*\*\*\*\*

\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

-----  
SECTION III PHYSICAL DATA  
-----

Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 8.8911 LB/GL  
Theoretical Specific Gravity, Calculated: 1.068  
Theoretical VOC, Calculated: 3.109 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: LT BLUE TO BLUE-GREEN  
Odor: STYRENE  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 32.706  
% MONOMER BY WEIGHT 32.610  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points less than 73 deg. F.  
OSHA Flammability Classification: Class IB  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
DOT Shipping Name:  
DOT Shipping Name:  
Flash Points less than 73 deg. F. = RESIN SOLUTION, 3, UN1866, PG II  
Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

\*\*\*\*\*  
\* STYPOL LSPA-2201 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LSPA2201B3 \*  
\*\*\*\*\*

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 149980/SUB 2 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
SECTION V HEALTH HAZARD DATA  
-----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause pneumonitis which can be fatal.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase



MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: STYPOL LSPA-2201  
DESCRIPTION: UNSATURATED POLYESTER IN MONOMER  
PRODUCT CODE IDENTITY: LSPA2201B3  
NPCA HMIS RATING: H 2\* F 3 R 1

REVISION: 01  
LAST REVISED : 08/16/2004  
DATE OF ISSUE: 04/27/2007

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:

PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

=====  
CCP certifies that its products comply with all the provisions of the  
Toxic Substances Control Act (TSCA), unless otherwise stated by  
ingredient in Section II.  
=====

\*\*\*\*\*  
\*\*\* The percent by weight composition data given in Sections II \*\*\*  
\*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
\*\*\* formula values for each ingredient in the product. The data \*\*\*  
\*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
\*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
\*\*\* batch concentrations will vary within limits consistent with \*\*\*  
\*\*\* separately established product specifications. \*\*\*  
\*\*\*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0480  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .1820  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 32.6190 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)

LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

\*\*\*\*\*  
\* STYPOL LSPA-2201 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LSPA2201B3 \*  
\*\*\*\*\*

in mortality related to styrene."  
An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.  
Lung effects have been observed in the mouse following repeated exposure to styrene.

-----  
SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:  
Elevated temperatures.  
INCOMPATIBILITY (MATERIALS TO AVOID):  
Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.  
WASTE DISPOSAL METHOD:  
Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:  
Do not breathe vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during use of this product until vapors are exhausted, unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.  
VENTILATION:  
Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits. Refer to OSHA Standard 1910.94.  
NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.  
PROTECTIVE GLOVES:  
Use solvent impermeable gloves to avoid contact with product.  
EYE PROTECTION:  
Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.  
OTHER PROTECTIVE EQUIPMENT:  
Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

\*\*\*\*\*  
\* STYPOL LSPA-2201 \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* LSPA2201B3 \*  
\*\*\*\*\*

-----  
SECTION IX SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

-----  
SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0480

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1820

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 32.6190

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\*\*\*\*\*  
DISCLAIMER AND LIMITATION OF LIABILITY  
\*\*\*\*\*  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the

**San Joaquin Valley  
Unified Air Pollution Control District**

**Baseline Period for Banking Applications**

Approved By:           Signed            
Seyed Sadredin  
Director of Permit Services

Date:           9/9/92          

**Purpose:** To clarify the District's requirements concerning the selection of an applicable baseline period in evaluating banking applications.

**I. Applicable Regulations:**

Rule 230.1 (Emission Reduction Banking Rule) states that the baseline period shall be the same as that defined in Rule 220.1 (New and Modified Stationary Source Review).

Rule 220.1 states that the baseline period shall be either: 1) two consecutive years of operation immediately prior to the submission of the complete application; 2) another time period of at least two consecutive years within five years immediately prior to the submission of the complete application determined by the Control Officer as more representative of normal source operation; 3) a shorter period of at least one year in cases where the emissions unit has not been in operation for two years so long as this represents the full operation history of the stationary source; 4) emissions units which have been in operation for less than one year shall have no baseline period for determining actual emissions reductions.

**II. Appropriate Baseline Period:**

Based on the above referenced regulations, the baseline period shall be selected as follows:

**A. Reductions not requiring an Authority to Construct (e.g., shutdowns, exempt sources):**

The baseline emissions shall be selected from a period as prescribed in Rule 220.1 immediately preceding the banking application.

**B. Reductions authorized by a previous Authority to Construct (e.g., retrofit with control equipment or a more efficient process or material):**

The baseline emissions shall be selected from a period as prescribed in Rule 220.1 immediately preceding the Authority to Construct application.

**C. Reductions authorized by a previous Authority to Construct which has been renewed:**

The baseline emissions shall be selected from a period as prescribed in Rule 220.1 immediately preceding the application for renewal.

**III. Applicable Calculations Procedure:**

In all cases the calculations shall be performed in accordance with calculations procedure in the New Source Review Rule in effect at the time the banking application is deemed complete. The emission factors shall be those verified after a retrofit is made and based on source testing (if applicable).

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: IMEDGE  
 DESCRIPTION: REGAL  
 PRODUCT CODE IDENTITY: 100RH540 / REVISION: 01  
 NPCA HMIS RATING: H 2\* F 3 R 2 LAST REVISED : 11/27/2007  
 DATE OF ISSUE: 12/04/2007

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
 ADDRESS: 820 E. 14th AVENUE PREPARED BY:  
 NORTH KANSAS CITY, MO 64116 HAZARD COMMUNICATION DEPT.  
 CUSTOMER: INFORMATION TELEPHONE:  
 COMPOSITES: 1-800-821-3590  
 POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
 703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II \*\*\*  
 \*\*\* and X are NOT SPECIFICATIONS, but are based on 'target' \*\*\*  
 \*\*\* formula values for each ingredient in the product. The data \*\*\*  
 \*\*\* are presented as ranges for low hazard ingredients and single \*\*\*  
 \*\*\* point values for ingredients of regulatory concern. Actual \*\*\*  
 \*\*\* batch concentrations will vary within limits consistent with \*\*\*  
 \*\*\* separately established product specifications. \*\*\*  
 \*\*\*\*\*

SECTION II INGREDIENTS

1  
 CAS# 027253-31-2  
 COBALT NEODECANOATE, 26% COBALT  
 PCT BY WT: .0300  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
 CAS# 000136-52-7  
 COBALT 2-ETHYLHEXANOATE, 12% COBALT  
 PCT BY WT: .1140  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
 OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

3  
 CAS# 000080-62-6  
 METHYL METHACRYLATE  
 PCT BY WT: 3.8330 VAPOR PRESSURE: 29.000 MMHG @ 68F  
 EXPOSURE LIMIT:  
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)  
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)  
 LD50, Oral: 7.9 G/KG (RAT)  
 LD50, Dermal: 35.5 G/KG (RABBIT)  
 LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)

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4  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 28.1550 VAPOR PRESSURE: 4.500 MMHG @ 68F



\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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5  
CAS# 068611-44-9  
SILICA, AMORPHOUS  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
OSHA PEL/TWA: 15MG/CU.M. (TOT.DUST); 5MG/CU.M. (RESPIRABLE FRACTN)  
LD50, Oral: >5000 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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6  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY CAS# PROPRIETARY  
PCT BY WT: 5 - 10  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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7  
UNSATURATED POLYESTER RESIN  
TSCA POLYMER EXEMPT  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
8 REACTIVE MONOMER  
PCT BY WT: 1 - 5  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

-----  
\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
\*\*\*\*\*

-----  
SECTION III PHYSICAL DATA  
-----  
Boiling Range: High- -N/A F Low- 212.0 F

Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 9.0530 LB/GL  
Theoretical Specific Gravity, Calculated: 1.088  
Theoretical VOC, Calculated: 3.248 LB/GL  
--If applicable , see Section X for further VOC information--

\*\*\*\*\*  
 \* IMEDGE \*  
 \* MATERIAL SAFETY DATA SHEET \*  
 \* 100RH540 \*  
 \*\*\*\*\*

Physical State: LIQUID  
 Appearance: RED  
 Odor: MODERATE AROMATIC  
 Odor Threshold: -N/A  
 pH: -N/A  
 Freezing Point: -N/A  
 Water Solubility: INSOLUBLE  
 Coefficient of Water/Oil Distribution: -N/A  
 Mechanical Impact Explosion: NO KNOWN HAZARD  
 Static Electricity Explosion: AVOID STATIC CHARGE  
 % HAP BY WEIGHT 32.093  
 % MONOMER BY WEIGHT 34.720

-----  
 SECTION IV FIRE AND EXPLOSION HAZARD DATA  
 -----

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 82.0 degrees F  
 For Flash Points 73 to 100 deg. F.  
 OSHA Flammability Classification: Class IC  
 DOT Flammability Classification: Flammable Liquid  
 Lower Flammable Limit in Air: Lower- 1.1 % by volume  
 DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

-----  
 SECTION V HEALTH HAZARD DATA  
 -----

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

ETHYLENE GLYCOL MONOBUTYL ETHER

Exposure of experimental animals to ethylene glycol monobutyl ether has been found to produce a toxic effect on red blood cells, spleen, liver and kidney.

METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

Prolonged or repeated overexposure at near lethal concentrations can cause liver and kidney damage.

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SECTION VI REACTIVITY DATA

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\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

-----  
SECTION VII SPILL OR LEAK PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

-----  
SECTION VIII SPECIAL PROTECTION INFORMATION  
-----

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0300

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COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .1140

-----  
METHYL METHACRYLATE  
CAS# 000080-62-6 PCT BY WT: 3.8330

-----  
STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 28.1550  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE

ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.  
The Buyer's sole and exclusive remedy against Seller shall be for the  
replacement of the product or refund of the purchase price in the event



\*\*\*\*\*  
\* IMEDGE \*  
\* MATERIAL SAFETY DATA SHEET \*  
\* 100RH540 \*  
\*\*\*\*\*

that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.


The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

# San Joaquin Valley Air Pollution Control District

## Application for

EMISSION REDUCTION CREDIT (ERC)

CONSOLIDATION OF ERC CERTIFICATES

1. ERC TO BE ISSUED TO: <u>Malibu Boats, LLC</u>		Facility ID: <u>N - 3941</u> (if known)				
2. MAILING ADDRESS: Street/P.O. Box: <u>One Malibu Court</u>						
City: <u>Merced</u>		State: <u>CA</u> Zip Code: <u>95340</u>				
3. LOCATION OF REDUCTION: Street: <u>One Malibu Court</u> City: <u>Merced</u>  _____/4 SECTION _____ TOWNSHIP _____ RANGE _____		4. DATE OF REDUCTION: <u>March 2010</u>				
5. PERMIT NO(S):		EXISTING ERC NO(S):				
Gelcoat spray booth served by a 3 hp fan and exhaust filters (N-3941-1-5) Gelcoat spray booth served by a 3 hp fan and exhaust filters (N-3941-2-2) Polyester resin and adhesive application operations served by an air filtration system with dry filters (N-3941-3-2) Gelcoat operation served by a spray booth and a gelcoat gun (N-3941-4-2) Hand lay-up fiberglass resin and adhesive operation (N-3941-5-2)						
6. METHOD RESULTING IN EMISSION REDUCTION:						
<input type="checkbox"/> SHUTDOWN <input type="checkbox"/> RETROFIT <input type="checkbox"/> PROCESS CHANGE <input checked="" type="checkbox"/> OTHER						
DESCRIPTION: <u>Reduced production and re-permitting of facility</u>						
7. REQUESTED ERCs (In Pounds Per Calendar Quarter):						
	VOC	NOx	CO	PM10	SOx	OTHER
1ST QUARTER	29.296					
2ND QUARTER	29.296					
3RD QUARTER	29.296					
4TH QUARTER	29.296					
8. SIGNATURE OF APPLICANT: 			TYPE OR PRINT TITLE OF APPLICANT: <u>CEO</u>			
9. TYPE OR PRINT NAME OF APPLICANT: <u>Jack Springer</u>			DATE: <u>3/29/10</u>		TELEPHONE NO: <u>(209) 383-7469</u>	

FOR APCD USE ONLY:

ck. by Malibu Boats, LLC

<b>RECEIVED</b>  <b>MAR 30 2010</b>	FILING FEE RECEIVED: \$ <u>759.00 / 34711</u>  DATE PAID: <u>3-29-10</u>  PROJECT NO.: <u>N1101305</u> FACILITY ID: <u>N3941</u>
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SJVAPCD  
 Northern Regional Office \* 4800 Enterprise Way \* Modesto, California 95356-8718 \* (209) 557-6400 \* FAX (209) 557-6475  
 Central Regional Office \* 1990 East Gettysburg Avenue \* Fresno, California 93726-0244 \* (559) 230-5900 \* FAX (559) 230-6061  
 Southern Regional Office \* 34946 Flyover Court \* Bakersfield, California 93308 \* (661) 392-5500 \* FAX (661) 392-5585



APPENDIX A

Re-Permitted Operations

## Re-Permitted Operations

Malibu Boats plans to change future production use at the Merced plant. Malibu Boats intends to use the site for tooling, warranty work, production on towers, and small part production as needed for warranty replacement or new model production. Thus, Malibu Boats may utilize the same raw materials as in the past but on a much smaller scale. Malibu Boats is proposing a facility-wide 1.875 tons per year VOC cap ( $15 \text{ pounds VOC/day} * 5 \text{ days/week} * 50 \text{ weeks/year}$ ). Thus, post re-permitting potential emissions are equal to the proposed facility-wide 1.875 tons per year VOC cap. This section contains an example calculation of possible daily future usage and associated VOC emissions. The emission calculation methodology is described in Appendix B. Malibu Boats will record daily usages and associated VOC emissions to demonstrate compliance with the facility-wide 1.875 tons per year VOC cap.



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: February 2007

<b>1055</b>	<b>Usage (gal): 191.8</b>		<b>VOC Content (wt%): 0.280</b>		<b>VOCs (lbs): 59.9</b>	
Tooling Resin (1055)	<b>Usage (lbs): 2,000.0</b>		<b>HAP Content (wt%): 0.280</b>		<b>HAPs (lbs): 59.9</b>	
			<b>Density (lb/gal): 10.43</b>			
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>		
80-62-6	Methyl Methacrylate	1.00%	0.001	2.1		
100-42-5	Styrene	27.00%	0.029	57.8		
<b>945B023</b>	<b>Usage (gal): 44.1</b>		<b>VOC Content (wt%): 0.469</b>		<b>VOCs (lbs): 23.0</b>	
Plycor Conductive Tooling (945B023)	<b>Usage (lbs): 400.0</b>		<b>HAP Content (wt%): 0.469</b>		<b>HAPs (lbs): 23.0</b>	
			<b>Density (lb/gal): 9.07</b>			
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>		
100-42-5	Styrene	46.92%	0.058	23.0		
<b>953BK162</b>	<b>Usage (gal): 674.1</b>		<b>VOC Content (wt%): 0.416</b>		<b>VOCs (lbs): 1,352.1</b>	
Black Gelcoat (953BK162)	<b>Usage (lbs): 6,370.0</b>		<b>HAP Content (wt%): 0.416</b>		<b>HAPs (lbs): 1,352.1</b>	
			<b>Density (lb/gal): 9.45</b>			
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>		
80-62-6	Methyl Methacrylate	9.05%	0.068	430.0		
100-42-5	Styrene	32.53%	0.145	922.1		
<b>953LK160</b>	<b>Usage (gal): 106.0</b>		<b>VOC Content (wt%): 0.362</b>		<b>VOCs (lbs): 196.1</b>	
Dark Blue Gelcoat (953LK160)	<b>Usage (lbs): 1,036.0</b>		<b>HAP Content (wt%): 0.362</b>		<b>HAPs (lbs): 196.1</b>	
			<b>Density (lb/gal): 9.77</b>			
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>		
80-62-6	Methyl Methacrylate	8.86%	0.068	69.9		
100-42-5	Styrene	27.37%	0.122	126.2		
<b>991NH788</b>	<b>Usage (gal): 58.0</b>		<b>VOC Content (wt%): 0.318</b>		<b>VOCs (lbs): 100.8</b>	
Brown Gelcoat (991NH788)	<b>Usage (lbs): 606.0</b>		<b>HAP Content (wt%): 0.318</b>		<b>HAPs (lbs): 100.8</b>	
			<b>Density (lb/gal): 10.45</b>			
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>		
80-62-6	Methyl Methacrylate	6.23%	0.053	31.8		
100-42-5	Styrene	25.60%	0.114	69.0		
<b>ADH4011</b>	<b>Usage (gal): 4.4</b>		<b>VOC Content (wt%): 0.549</b>		<b>VOCs (lbs): 17.1</b>	
Conbond (ADH4011)	<b>Usage (lbs): 31.1</b>		<b>HAP Content (wt%): 0.000</b>		<b>HAPs (lbs): 0.0</b>	
			<b>Density (lb/gal): 7.11</b>			
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>		
	No reportable HAPs	0.00%	0.000	0.0		
<b>FB100</b>	<b>Usage (gal): 90.0</b>		<b>VOC Content (wt%): 0.012</b>		<b>VOCs (lbs): 9.7</b>	
Fastbond Foam Adhesive 100, Lavender	<b>Usage (lbs): 825.7</b>		<b>HAP Content (wt%): 0.000</b>		<b>HAPs (lbs): 0.0</b>	
			<b>Density (lb/gal): 9.17</b>			
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>		
	No reportable HAPs	0.00%	0.000	0.0		

Malibu Boats Merced Plant: Usage and VOC & HAP Emissions

Month of: February 2007

<b>IPSAth</b>		<b>Usage (gal): 193.8</b>	<b>VOC Content (wt%): 0.600</b>	<b>VOCs (lbs): 121.2</b>
IPS Adhesive & Activator		<b>Usage (lbs): 1,757.0</b>	<b>HAP Content (wt%): 0.600</b>	<b>HAPs (lbs): 121.0</b>
			<b>Density (lb/gal): 9.07</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	60.00%	0.069	121.0
<b>LSPK-2221</b>		<b>Usage (gal): 1,356.1</b>	<b>VOC Content (wt%): 0.348</b>	<b>VOCs (lbs): 462.0</b>
Polyester Resin (LSPK-2221)		<b>Usage (lbs): 12,000.0</b>	<b>HAP Content (wt%): 0.348</b>	<b>HAPs (lbs): 462.0</b>
			<b>Density (lb/gal): 8.85</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
100-42-5	Styrene	34.83%	0.039	462.0
<b>MA300</b>		<b>Usage (gal): 3.5</b>	<b>VOC Content (wt%): 0.600</b>	<b>VOCs (lbs): 1.5</b>
ITW Plexus Adhesive (MA300)		<b>Usage (lbs): 30.0</b>	<b>HAP Content (wt%): 0.600</b>	<b>HAPs (lbs): 1.5</b>
			<b>Density (lb/gal): 8.59</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	60.00%	0.048	1.5
<b>MBA01</b>		<b>Usage (gal): 1,093.0</b>	<b>VOC Content (wt%): 0.100</b>	<b>VOCs (lbs): 728.0</b>
Westech HS-MAC18, HP-MAC18 & MPEA		<b>Usage (lbs): 7,292.2</b>	<b>HAP Content (wt%): 0.000</b>	<b>HAPs (lbs): 0.0</b>
			<b>Density (lb/gal): 6.67</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
	No reportable HAPs	0.00%	0.000	0.0
<b>MBG01</b>		<b>Usage (gal): 892.7</b>	<b>VOC Content (wt%): 0.358</b>	<b>VOCs (lbs): 1,461.4</b>
Black Barrier Gelcoat (967BJ244)		<b>Usage (lbs): 8,525.0</b>	<b>HAP Content (wt%): 0.318</b>	<b>HAPs (lbs): 1,205.4</b>
			<b>Density (lb/gal): 9.55</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
100-42-5	Styrene	31.77%	0.141	1,205.4
<b>MBG02</b>		<b>Usage (gal): 67.0</b>	<b>VOC Content (wt%): 0.308</b>	<b>VOCs (lbs): 115.5</b>
Armorcote Moonbeam Gelcoat (991AK138)		<b>Usage (lbs): 712.0</b>	<b>HAP Content (wt%): 0.308</b>	<b>HAPs (lbs): 115.5</b>
			<b>Density (lb/gal): 10.63</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	6.17%	0.053	37.4
100-42-5	Styrene	24.66%	0.110	78.1
<b>MBG02a</b>		<b>Usage (gal): 15.0</b>	<b>VOC Content (wt%): 0.320</b>	<b>VOCs (lbs): 26.2</b>
Armorcote Marble Gelcoat (991AK139)		<b>Usage (lbs): 157.0</b>	<b>HAP Content (wt%): 0.320</b>	<b>HAPs (lbs): 26.2</b>
			<b>Density (lb/gal): 10.44</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	6.28%	0.053	8.2
100-42-5	Styrene	25.73%	0.115	18.0



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **February 2007**

<b>MBG02b</b>		<b>Usage (gal): 24.9</b>	<b>VOC Content (wt%): 0.328</b>	<b>VOCs (lbs): 43.6</b>
Armorcote Charcoal Gelcoat (991AK140)		<b>Usage (lbs): 256.0</b>	<b>HAP Content (wt%): 0.328</b>	<b>HAPs (lbs): 43.5</b>
			<b>Density (lb/gal): 10.30</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	6.33%	0.053	13.4
100-42-5	Styrene	26.43%	0.118	30.1
<b>MBG04</b>		<b>Usage (gal): 20.9</b>	<b>VOC Content (wt%): 0.305</b>	<b>VOCs (lbs): 33.6</b>
Armorcote Vapor Blue Gelcoat (991LK123)		<b>Usage (lbs): 218.0</b>	<b>HAP Content (wt%): 0.305</b>	<b>HAPs (lbs): 33.6</b>
			<b>Density (lb/gal): 10.43</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	5.98%	0.045	9.8
100-42-5	Styrene	24.56%	0.109	23.8
<b>MBG04a</b>		<b>Usage (gal): 48.2</b>	<b>VOC Content (wt%): 0.322</b>	<b>VOCs (lbs): 90.4</b>
Armorcote Midnight Blue Gelcoat (991LK141)		<b>Usage (lbs): 514.0</b>	<b>HAP Content (wt%): 0.322</b>	<b>HAPs (lbs): 90.4</b>
			<b>Density (lb/gal): 10.67</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	9.55%	0.075	38.6
100-42-5	Styrene	22.66%	0.101	51.8
<b>MBG05</b>		<b>Usage (gal): 19.9</b>	<b>VOC Content (wt%): 0.304</b>	<b>VOCs (lbs): 34.1</b>
Armorcote Light Graphite Gelcoat (991NK123)		<b>Usage (lbs): 212.0</b>	<b>HAP Content (wt%): 0.304</b>	<b>HAPs (lbs): 34.1</b>
			<b>Density (lb/gal): 10.63</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	6.07%	0.053	11.1
100-42-5	Styrene	24.37%	0.109	23.0
<b>MBG05b</b>		<b>Usage (gal): -4.7</b>	<b>VOC Content (wt%): 0.310</b>	<b>VOCs (lbs): -8.2</b>
Armorcote Sandstone Gelcoat (991NK125)		<b>Usage (lbs): -50.0</b>	<b>HAP Content (wt%): 0.310</b>	<b>HAPs (lbs): -8.2</b>
			<b>Density (lb/gal): 10.57</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	6.12%	0.053	-2.6
100-42-5	Styrene	24.89%	0.111	-5.5
<b>MBG06</b>		<b>Usage (gal): 1,103.6</b>	<b>VOC Content (wt%): 0.329</b>	<b>VOCs (lbs): 2,068.0</b>
Armorcote White Gelcoat (991WH423)		<b>Usage (lbs): 12,177.0</b>	<b>HAP Content (wt%): 0.329</b>	<b>HAPs (lbs): 2,067.7</b>
			<b>Density (lb/gal): 11.03</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>	<b>HAP/TAP Lbs</b>
80-62-6	Methyl Methacrylate	6.50%	0.053	639.3
100-42-5	Styrene	26.36%	0.117	1,428.4

Malibu Boats Merced Plant: Usage and VOC & HAP Emissions

Month of: February 2007

<b>MBG07</b>	Usage (gal): <b>87.3</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>145.9</b>
Armorcote CA Yellow Gelcoat (991YK125)	Usage (lbs): <b>904.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>145.9</b>
		Density (lb/gal): <b>10.35</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.46%	0.109
			<b>HAP/TAP Lbs</b>
			<b>47.5</b>
			<b>98.4</b>
<b>MBG07a</b>	Usage (gal): <b>24.7</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>39.9</b>
Armorcote Orange Gelcoat (991YK132)	Usage (lbs): <b>255.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>39.9</b>
		Density (lb/gal): <b>10.33</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>
80-62-6	Methyl Methacrylate	5.58%	0.045
100-42-5	Styrene	25.03%	0.111
			<b>HAP/TAP Lbs</b>
			<b>11.5</b>
			<b>28.4</b>
<b>MBG08</b>	Usage (gal): <b>9.8</b>	VOC Content (wt%): <b>0.309</b>	VOCs (lbs): <b>15.8</b>
Armorcote Ruben Gelcoat (991RK111)	Usage (lbs): <b>100.0</b>	HAP Content (wt%): <b>0.309</b>	HAPs (lbs): <b>15.8</b>
		Density (lb/gal): <b>10.22</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>
80-62-6	Methyl Methacrylate	5.57%	0.045
100-42-5	Styrene	25.38%	0.113
			<b>HAP/TAP Lbs</b>
			<b>4.5</b>
			<b>11.3</b>
<b>MBG08a</b>	Usage (gal): <b>158.7</b>	VOC Content (wt%): <b>0.311</b>	VOCs (lbs): <b>257.5</b>
Armorcote Regal Gelcoat (991RK112)	Usage (lbs): <b>1,628.0</b>	HAP Content (wt%): <b>0.311</b>	HAPs (lbs): <b>257.5</b>
		Density (lb/gal): <b>10.26</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>
80-62-6	Methyl Methacrylate	5.62%	0.045
100-42-5	Styrene	25.43%	0.113
			<b>HAP/TAP Lbs</b>
			<b>73.3</b>
			<b>184.3</b>
<b>MBM01</b>	Usage (gal): <b>373.2</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>127.4</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>3,424.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>58.9</b>
		Density (lb/gal): <b>9.17</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>
131-11-3	Dimethyl Phthalate	43.00%	0.017
			<b>HAP/TAP Lbs</b>
			<b>58.9</b>
<b>MBM02</b>	Usage (gal): <b>31.7</b>	VOC Content (wt%): <b>0.008</b>	VOCs (lbs): <b>2.2</b>
Aquawash (095-0040)	Usage (lbs): <b>270.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>8.51</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>
	No reportable HAPs	0.00%	0.000
			<b>HAP/TAP Lbs</b>
			<b>0.0</b>
<b>MBM02a</b>	Usage (gal): <b>10.0</b>	VOC Content (wt%): <b>1.000</b>	VOCs (lbs): <b>58.4</b>
Flex-Z 1, 2, 3, 4, 5 & 6	Usage (lbs): <b>58.4</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>5.84</b>	
<b>CAS No</b>	<b>Chemical</b>	<b>Weight %</b>	<b>E-Factor</b>
	No reportable HAPs	0.00%	0.000
			<b>HAP/TAP Lbs</b>
			<b>0.0</b>





**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: February 2007

<b>MBP01</b> EZ Bond Adhesive (5787W00077)	Usage (gal): 184.5	VOC Content (wt%): 0.300	VOCs (lbs): 52.9
	Usage (lbs): 1,400.0	HAP Content (wt%): 0.300	HAPs (lbs): 52.9
		Density (lb/gal): 7.59	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.038	52.9

<b>MBR02</b> Resin (LHPC3523)	Usage (gal): 12,001.2	VOC Content (wt%): 0.326	VOCs (lbs): 3,898.2
	Usage (lbs): 111,600.0	HAP Content (wt%): 0.316	HAPs (lbs): 3,772.1
		Density (lb/gal): 9.30	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	31.62%	0.034	3,772.1

<b>VLER-4000</b> VE Resin (VLER-4000)	Usage (gal): 462.5	VOC Content (wt%): 0.320	VOCs (lbs): 138.7
	Usage (lbs): 4,050.0	HAP Content (wt%): 0.320	HAPs (lbs): 138.7
		Density (lb/gal): 8.76	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.00%	0.034	138.7

	Month (lbs)	Month (tons)
VOCs:	11,673	5.84
HAPs:	10,406	5.20

**Malibu Boats Merced Plant: Example Daily Usage and Emissions**

**1055**

Tooling Resin (1055)

Usage (gal):	15.0
Usage (lbs):	156.4

VOC Content (wt%):	0.280
HAP Content (wt%):	0.280
Density (lb/gal):	10.43

VOCs (lbs):	4.7
HAPs (lbs):	4.7

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.00%	0.001	0.2
100-42-5	Styrene	27.00%	0.029	4.5

**965BK183**

Black VE Tooling (965BK183)

Usage (gal):	5.0
Usage (lbs):	46.1

VOC Content (wt%):	0.409
HAP Content (wt%):	0.358
Density (lb/gal):	9.23

VOCs (lbs):	10.2
HAPs (lbs):	8.2

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	35.84%	0.178	8.2

Month (lbs)

Month (tons)

VOCs: 15 0.01

HAPs: 13 0.01

## APPENDIX B

### Historical Actual Emissions Calculations

For detail monthly emission calculations one hardcopy example enclosed  
see CD for others (233 pages)

Maibu Boats -- Merced Plant  
2005 to Present Actual Emissions

Month	Month VOC (lbs)	Quarter VOC (lbs)	Quarter VOC (lbs)
January 2005	7,830		
February 2005	8,335		
March 2005	9,454	25,619	
April 2005	7,238		
May 2005	9,313		
June 2005	7,168	23,719	
July 2005	5,496		
August 2005	9,975		
September 2005	8,495	23,966	
October 2005	6,945		
November 2005	7,449		
December 2005	8,749	23,143	23,143
January 2006	7,435		
February 2006	8,760		
March 2006	10,509	26,704	26,704
April 2006	8,045		
May 2006	8,118		
June 2006	10,482	26,645	26,645
July 2006	6,840		
August 2006	9,220		
September 2006	8,765	24,825	24,825
October 2006	10,035		
November 2006	10,342		
December 2006	10,036	30,413	30,413
January 2007	12,035		
February 2007	11,673		
March 2007	13,084	36,792	36,792
April 2007	11,233		
May 2007	12,281		
June 2007	8,807	32,321	32,321
July 2007	5,817		
August 2007	6,489		
September 2007	7,927	20,233	20,233
October 2007	8,108		
November 2007	7,554		
December 2007	5,128	20,790	20,790
January 2008	11,660		
February 2008	7,699		
March 2008	5,247	24,606	
April 2008	8,417		
May 2008	6,995		
June 2008	2,868	18,280	
July 2008	3,177		
August 2008	5,401		
September 2008	6,303	14,881	
October 2008	6,127		
November 2008	2,916		
December 2008	3,288	12,331	
January 2009	2,155		
February 2009	3,247		
March 2009	1,174	6,576	
April 2009	1,869		
May 2009	123		
June 2009	128	2,120	
July 2009	24		
August 2009	85		
September 2009	57	166	
October 2009	58		
November 2009	0		
December 2009	34	92	
January 2010	36		
February 2010	73		
Total 2006 & 2007			241,866
Average Qtr 2006 & 2007			30,233
Average Qtr Re-Permit (1.875 tpy)			938
Average Qtr ERC			29,296

## VOC & HAP Emission Calculations

Volatile Organic Compound (VOC) and Hazardous Air Pollutant (HAP) emissions from the facility are calculated. In accordance with AP-42 section Section 4.4 (updated 5/08), emission calculations use ANSI/ACMA/ICPA UEF-1-2004 Estimating Emission Factors from Open Molding Composite Processes which utilize the Unified Emission Factors (UEF) for open molding of composites dated July 23, 2001. An attached table lists the basis for each emission factor (E-factor) utilized in the emissions calculations. A copy of the July 23, 2001 UEF table is also included with this letter.

The gelcoat spray guns are atomized. The styrene emission factor used for gelcoats is from the gelcoat application row of the UEF table. The Methyl Methacrylate (MMA) emission factor used for gelcoats is based on the MMA gelcoat application row of the UEF table. The resin chopper guns are non-atomized. The emission factor for lamination resins is taken from the mechanical non-atomized row of the UEF table.

Small quantities of highly reactive liquid organic peroxide solutions (e.g., MEKP) are used by the reinforced plastics industry to initiate the polymerization reaction in the resin or gelcoat material. Emission estimates in this permit application are based on the composite Manufacturer Associations' study, "Emission Factors for Liquid Organic Peroxide Catalysts used in the Open Molding of Composites." The emission factor for Dimethyl Phthalate (DMP) or other utilized organic is 0.04% of the available DMP by weight or 0.0172 (0.04 x 43%). Presumably, all trace amounts of Methyl Ethyl Ketone (MEK) will be released during the lamination process, because the MEK will neither react nor combine with the polyester resin during curing. Thus, the emission factor for MEK is 100% of the MEK by weight or 0.02 (100% x 2%).

Emissions from other raw materials (e.g., mold cleaners and sealers, etc.) at the Merced plant utilize a similar methodology or conservatively assume all of the chemicals are emitted (e.g., solvents in paints used, etc.). In these cases, the quantity of the VOC-containing raw material is multiplied by the individual chemical weight percent and the VOC weight percent as provided on the Material Safety Data Sheets (MSDS) to determine air emissions for that raw material. The previously mentioned attached table lists the basis for each emission factor (E-factor) utilized in the emissions calculations.

Appendix C contains Material Safety Data Sheets.

# Unified Emission Factors for Open Molding of Composites

July 23, 2001

## Emission Rate in Pounds of Styrene Emitted per Ton of Resin or Gelcoat Processed

Styrene content in resin/gelcoat, % <sup>(1)</sup>	<33 <sup>(2)</sup>	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	>50 <sup>(2)</sup>
Manual	0.126 x %styrene x 2000	83	89	94	100	106	112	117	123	129	134	140	146	152	157	163	169	174	180	((0.286 x %styrene) - 0.0529) x 2000
Manual w/ Vapor Suppressed Resin VSR <sup>(3)</sup>	Manual emission factor [listed above] x (1 - (0.50 x specific VSR reduction factor for each resin/suppressant formulation))																			
Mechanical Atomized	0.169 x %styrene x 2000	111	126	140	154	168	183	197	211	225	240	254	268	283	297	311	325	340	354	((0.714 x %styrene) - 0.18) x 2000
Mechanical Atomized with VSR <sup>(3)</sup>	Mechanical Atomized emission factor [listed above] x (1 - (0.45 x specific VSR reduction factor for each resin/suppressant formulation))																			
Mechanical Atomized Controlled Spray <sup>(4)</sup>	0.130 x %styrene x 2000	86	97	108	119	130	141	152	163	174	185	196	207	218	229	240	251	262	273	0.77 x ((0.714 x %styrene) - 0.18) x 2000
Mechanical Controlled Spray with VSR	Mechanical Atomized Controlled Spray emission factor [listed above] x (1 - (0.45 x specific VSR reduction factor for each resin/suppressant formulation))																			
Mechanical Non-Atomized	0.107 x %styrene x 2000	71	74	77	80	83	86	89	93	96	99	102	105	108	111	115	118	121	124	((0.167 x %styrene) - 0.0165) x 2000
Mechanical Non-Atomized with VSR <sup>(3)</sup>	Mechanical Non-Atomized emission factor [listed above] x (1 - (0.45 x specific VSR reduction factor for each resin/suppressant formulation))																			
Filament application	0.184 x %styrene x 2000	122	127	133	138	144	149	155	160	166	171	177	182	188	193	199	204	210	215	((0.2746 x %styrene) - 0.0298) x 2000
Filament application with VSR <sup>(3)</sup>	0.120 x %styrene x 2000	79	83	86	90	93	97	100	104	108	111	115	118	122	125	129	133	136	140	0.65 x ((0.2746 x %styrene) - 0.0298) x 2000
Gelcoat Application	0.445 x %styrene x 2000	294	315	336	356	377	398	418	439	460	481	501	522	543	564	584	605	626	646	((1.03646 x %styrene) - 0.195) x 2000
Gelcoat Controlled Spray Application <sup>(4)</sup>	0.325 x %styrene x 2000	215	230	245	260	275	290	305	321	336	351	366	381	396	411	427	442	457	472	0.73 x ((1.03646 x %styrene) - 0.195) x 2000
Gelcoat Non-Atomized Application <sup>(6)</sup>	SEE Note 9 below	196	205	214	223	232	241	250	259	268	278	287	296	305	314	323	332	341	350	((0.4506 x %styrene) - 0.0505) x 2000
Covered-Cure after Roll-Out	Non-VSR process emission factor [listed above] x (0.80 for Manual <or> 0.85 for Mechanical)																			
Covered-Cure without Roll-Out	Non-VSR process emission factor [listed above] x (0.50 for Manual <or> 0.55 for Mechanical)																			

## Emission Rate in Pounds of Methyl Methacrylate Emitted per Ton of Gelcoat Processed

MMA content in gelcoat, % <sup>(6)</sup>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	≥20
Gel coat application <sup>(7)</sup>	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	0.75 x %MMA x 2000

### Notes

- Including styrene monomer content as supplied, plus any extra styrene monomer added by the molder, but before addition of other additives such as powders, fillers, glass, etc.
- Formulas for materials with styrene content < 33% are based on the emission rate at 33% (constant emission factor expressed as percent of available styrene), and for styrene content > 50% on the emission rate based on the extrapolated factor equations; these are not based on test data but are believed to be conservative estimates. The value for "% styrene" in the formulas should be input as a fraction. For example, use the input value 0.30 for a resin with 30% styrene content by wt.
- The VSR reduction factor is determined by testing each resin/suppressant formulation according to the procedures detailed in the *CFA Vapor Suppressant Effectiveness Test*.
- SEE the *CFA Controlled Spray Handbook* for a detailed description of the controlled spray procedures.
- The effect of vapor suppressants on emissions from filament winding operations is based on the *Dow Filament Winding Emissions Study*.
- Including MMA monomer content as supplied, plus any extra MMA monomer added by the molder, but before addition of other additives such as powders, fillers, glass, etc.
- Based on gelcoat data from *NMMA Emission Study*.
- SEE the July 17, 2001 ECES report *Emission Factors for Non-Atomized Application of Gel Coats used in the Open Molding of Composites* for a detailed description of the non-atomized gelcoat testing.
- Use the equation ((0.4506 x %styrene) - 0.0505) x 2000 for gelcoats with styrene contents between 19% and 32% by wt.; use the equation 0.185 x %styrene x 2000 for gelcoats with less than 19% styrene content by wt.

**Malibu Boats Merced Plant**

<b>Product Number</b>	<b>Product Name</b>	<b>UEF Row</b>
040-8094	CCP Optiplus Resin (040-8094)	Mechanical Non-Atomized
040-8094	CCP Optiplus Resin (040-8094)	Mechanical Non-Atomized
040-8094	CCP Optiplus Resin (040-8094)	N/A -- assume all emitted
100BK201	Jet Black Gelcoat (100BK201)	No emissions
100BK201	Jet Black Gelcoat (100BK201)	Gelcoat Application - MMA
100BK201	Jet Black Gelcoat (100BK201)	Gelcoat Application
100RH540	Regal Gelcoat (100RH540)	No emissions
100RH540	Regal Gelcoat (100RH540)	No emissions
100RH540	Regal Gelcoat (100RH540)	Gelcoat Application - MMA
100RH540	Regal Gelcoat (100RH540)	Gelcoat Application
100YH895	California Yellow Gelcoat (100YH895)	No emissions
100YH895	California Yellow Gelcoat (100YH895)	No emissions
100YH895	California Yellow Gelcoat (100YH895)	Gelcoat Application - MMA
100YH895	California Yellow Gelcoat (100YH895)	Gelcoat Application
1055	Tooling Resin (1055)	Mechanical Non-Atomized
1055	Tooling Resin (1055)	Mechanical Non-Atomized
200LK202	Black Barrier Coat (200LK202)	No emissions
200LK202	Black Barrier Coat (200LK202)	Gelcoat Application
3MFinesse	3M Finesse-it II Finishing Material	N/A
3MMUPaste	3M Marine Ultra Paste Wax	N/A
5788C90007	Surfacing Agent 85-X3 (5788C90007)	N/A -- assume all emitted
5788C90008	Patch Booster (5788C90008)	Manual

### Emission Factor Documentation

Chemical	Weight % (%)	E-Factor (%)
Methyl Methacrylate	1.54%	0.0016
Styrene	36.67%	0.0415
Vinyl Acetate	0.22%	0.0022
Cobalt 2-Ethylhexanoate	0.13%	0.0000
Methyl Methacrylate	1.80%	0.0150
Styrene	28.01%	0.1246
Cobalt 2-Ethylhexanoate	0.11%	0.0000
Cobalt Neodecanoate	0.03%	0.0000
Methyl Methacrylate	3.83%	0.0300
Styrene	28.16%	0.1253
Cobalt 2-Ethylhexanoate	0.12%	0.0000
Cobalt Neodecanoate	0.03%	0.0000
Methyl Methacrylate	3.88%	0.0300
Styrene	28.46%	0.1266
Methyl Methacrylate	1.00%	0.0011
Styrene	27.00%	0.0289
Cobalt 2-Ethylhexanoate	0.21%	0.0000
Styrene	30.00%	0.1335
No reportable HAPs	0.00%	0.0000
No reportable HAPs	0.00%	0.0000
Styrene	95.00%	0.9500
Styrene	65.00%	0.1330



Product Number	Product Name	UEF Row	Chemical	Weight % (%)	E-Factor (%)
5788C90279	Patch Aid Reducer (5788C90279)	Manual	Styrene	55.84%	0.1068
5799A90073	Midnight Blue Gelcoat (5799A90073)	Gelcoat Application - MMA	Methyl Methacrylate	4.58%	0.0375
5799A90073	Midnight Blue Gelcoat (5799A90073)	Gelcoat Application	Styrene	27.10%	0.1206
5799B90020	Aztec Black Gelcoat (5799B90020)	Gelcoat Application - MMA	Methyl Methacrylate	1.25%	0.0150
5799B90020	Aztec Black Gelcoat (5799B90020)	Gelcoat Application	Styrene	30.31%	0.1349
5799E90056	Charcoal Gelcoat (5799E90056)	Gelcoat Application - MMA	Methyl Methacrylate	4.58%	0.0375
5799E90056	Charcoal Gelcoat (5799E90056)	Gelcoat Application	Styrene	26.97%	0.1200
5799L90035	Ca Yellow Gelcoat (5799L90035)	Gelcoat Application - MMA	Methyl Methacrylate	3.76%	0.0300
5799L90035	Ca Yellow Gelcoat (5799L90035)	Gelcoat Application	Styrene	29.09%	0.1294
5799R90052	Regal Gelcoat (5799R90052)	Gelcoat Application - MMA	Methyl Methacrylate	4.47%	0.0375
5799R90052	Regal Gelcoat (5799R90052)	Gelcoat Application	Styrene	27.44%	0.1221
945B023	Polycor Conductive Tooling (945B023)			0.00%	0.0000
945B023	Polycor Conductive Tooling (945B023)	Mechanical Non-Atomized	Styrene	46.92%	0.0575
953BK162	Black Gelcoat (953BK162)	Gelcoat Application - MMA	Methyl Methacrylate	9.05%	0.0675
953BK162	Black Gelcoat (953BK162)	Gelcoat Application	Styrene	32.53%	0.1448
953LK160	Dark Blue Gelcoat (953LK160)	Gelcoat Application - MMA	Methyl Methacrylate	8.86%	0.0675
953LK160	Dark Blue Gelcoat (953LK160)	Gelcoat Application	Styrene	27.37%	0.1218
963LK160	Dark Blue Gelcoat (963LK160)	No emissions	Cobalt 2-Ethylhexanoate	0.15%	0.0000
963LK160	Dark Blue Gelcoat (963LK160)	No emissions	Cobalt Neodecanoate	0.04%	0.0000
963LK160	Dark Blue Gelcoat (963LK160)	Gelcoat Application - MMA	Methyl Methacrylate	5.77%	0.0450
963LK160	Dark Blue Gelcoat (963LK160)	Gelcoat Application	Styrene	22.78%	0.1014
963LK188	Midnight Blue Gelcoat (963LK188)	Gelcoat Application - MMA	Methyl Methacrylate	5.88%	0.0450
963LK188	Midnight Blue Gelcoat (963LK188)	Gelcoat Application	Styrene	23.24%	0.1034

Product Number	Product Name	UEF Row	Chemical	Weight % (%)	E-Factor (%)
963RK139	Rueben Gelcoat (963RK139)	Gelcoat Application - MMA	Methyl Methacrylate	5.57%	0.0450
963RK139	Rueben Gelcoat (963RK139)	Gelcoat Application	Styrene	23.11%	0.1029
963RK140	Regal Gelcoat (963RK140)	Gelcoat Application - MMA	Methyl Methacrylate	5.62%	0.0450
963RK140	Regal Gelcoat (963RK140)	Gelcoat Application	Styrene	23.16%	0.1031
963WH671	White Gelcoat (963WH671)	Gelcoat Application - MMA	Methyl Methacrylate	6.49%	0.0525
963WH671	White Gelcoat (963WH671)	Gelcoat Application	Styrene	23.71%	0.1055
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	Gelcoat Application - MMA	Methyl Methacrylate	10.25%	0.0825
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	Gelcoat Application	Styrene	34.63%	0.1680
963XA221	Marine Clear Gelcoat (963XA221)	No emissions	Cobalt 2-Ethylhexanoate	0.05%	0.0000
963XA221	Marine Clear Gelcoat (963XA221)	Gelcoat Application - MMA	Methyl Methacrylate	10.00%	0.0750
963XA221	Marine Clear Gelcoat (963XA221)	Gelcoat Application	Styrene	34.73%	0.1680
965BK183	Black VE Tooling (965BK183)	Gelcoat Application	Styrene	35.84%	0.1780
965BK183	Black VE Tooling (965BK183)	Gelcoat Application - MMA	Vinyl Toluene	3.08%	0.0225
967BK150	Black Barrier Coat (967BK150)	Gelcoat Application	Styrene	32.14%	0.1430
967BK150	Black Barrier Coat (967BK150)	Gelcoat Application - MMA	Vinyl Toluene	3.69%	0.0300
970XJ037	Patchaid (970XJ037)	Manual	Styrene	57.40%	0.1113
991GH359	Polo Green Gelcoat (991GH359)	Gelcoat Application - MMA	Methyl Methacrylate	5.54%	0.0450
991GH359	Polo Green Gelcoat (991GH359)	Gelcoat Application	Styrene	27.21%	0.1211
991GH369	Brite Green Gelcoat (991GH369)	Gelcoat Application - MMA	Methyl Methacrylate	5.62%	0.0450
991GH369	Brite Green Gelcoat (991GH369)	Gelcoat Application	Styrene	26.89%	0.1196
991NH788	Brown Gelcoat (991NH788)	Gelcoat Application - MMA	Methyl Methacrylate	6.23%	0.0525
991NH788	Brown Gelcoat (991NH788)	Gelcoat Application	Styrene	25.60%	0.1139
991PK105	Black Iris Gelcoat (991PK105)	Gelcoat Application - MMA	Methyl Methacrylate	6.81%	0.0525

Malibu Boats Merced Plant

Emission Factor Documentation

Product Number	Product Name	UEF Row	Chemical	Weight % (%)	E-Factor (%)
991PK105	Black Iris Gelcoat (991PK105)	Gelcoat Application	Styrene	24.41%	0.1086
9EXFB379	Dark Blue Gelcoat (9EXFB379)	No emissions	Cobalt 2-Ethylhexanoate	0.12%	0.0000
9EXFB379	Dark Blue Gelcoat (9EXFB379)	Gelcoat Application - MMA	Methyl Methacrylate	1.71%	0.0150
9EXFB379	Dark Blue Gelcoat (9EXFB379)	Gelcoat Application	Styrene	28.44%	0.1266
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	No emissions	Cobalt 2-Ethylhexanoate	0.13%	0.0000
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	Gelcoat Application - MMA	Methyl Methacrylate	1.80%	0.0150
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	Gelcoat Application	Styrene	28.93%	0.1287
9EXFB389	CA Yellow Gelcoat (9EXFB389)	No emissions	Cobalt 2-Ethylhexanoate	0.12%	0.0000
9EXFB389	CA Yellow Gelcoat (9EXFB389)	Gelcoat Application - MMA	Methyl Methacrylate	1.78%	0.0150
9EXFB389	CA Yellow Gelcoat (9EXFB389)	Gelcoat Application	Styrene	28.71%	0.1277
9EXFB395	Charcoal Gelcoat (9EXFB395)	No emissions	Cobalt 2-Ethylhexanoate	0.13%	0.0000
9EXFB395	Charcoal Gelcoat (9EXFB395)	Gelcoat Application - MMA	Methyl Methacrylate	1.98%	0.0150
9EXFB395	Charcoal Gelcoat (9EXFB395)	Gelcoat Application	Styrene	29.12%	0.1296
ADH4011	Conbond (ADH4011)	N/A	No reportable HAPs	0.00%	0.0000
FB100	Fastbond Foam Adhesive 100, Lavender	N/A	No reportable HAPs	0.00%	0.0000
Flex-Z	Flex-Z 1, 2, 3, 4, 5 & 6	N/A	No reportable HAPs	0.00%	0.0000
IPSAth	IPS Adhesive & Activator	MSDS	Methyl Methacrylate	60.00%	0.0689
LSPK-2221	Polyester Resin (LSPK-2221)	Mechanical Non-Atomized	Styrene	34.83%	0.0385
MA300	ITW Plexus Adhesive (MA300)	N/A -- Per MSDS	Methyl Methacrylate	60.00%	0.0485
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	N/A	No reportable HAPs	0.00%	0.0000
MBG01	Black Barrier Gelcoat (967BJ244)	Gelcoat Application	Styrene	31.77%	0.1414
MBG01	Black Barrier Gelcoat (967BJ244)	Gelcoat Application - MMA	Vinyl Toluene	4.00%	0.0300
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	Gelcoat Application - MMA	Methyl Methacrylate	6.17%	0.0525

Product Number	Product Name	UEF Row	Chemical	Weight % (%)	E-Factor (%)
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	Gelcoat Application	Styrene	24.66%	0.1097
MBG02a	Armorcote Marble Gelcoat (991AK139)	Gelcoat Application - MMA	Methyl Methacrylate	6.28%	0.0525
MBG02a	Armorcote Marble Gelcoat (991AK139)	Gelcoat Application	Styrene	25.73%	0.1145
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	Gelcoat Application - MMA	Methyl Methacrylate	6.33%	0.0525
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	Gelcoat Application	Styrene	26.43%	0.1176
MBG03	Armorcote Black Gelcoat (991BK139)	Gelcoat Application - MMA	Methyl Methacrylate	9.32%	0.0750
MBG03	Armorcote Black Gelcoat (991BK139)	Gelcoat Application	Styrene	23.29%	0.1036
MBG03a	Armorcote Black Gelcoat (991BK136)	Gelcoat Application - MMA	Methyl Methacrylate	5.84%	0.0450
MBG03a	Armorcote Black Gelcoat (991BK136)	Gelcoat Application	Styrene	26.71%	0.1188
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	Gelcoat Application - MMA	Methyl Methacrylate	5.98%	0.0450
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	Gelcoat Application	Styrene	24.56%	0.1093
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	Gelcoat Application - MMA	Methyl Methacrylate	9.55%	0.0750
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	Gelcoat Application	Styrene	22.66%	0.1008
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	Gelcoat Application - MMA	Methyl Methacrylate	9.12%	0.0750
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	Gelcoat Application	Styrene	22.78%	0.1014
MBG05	Armorcote Light Graphite Gelcoat (991NK12)	Gelcoat Application - MMA	Methyl Methacrylate	6.07%	0.0525
MBG05	Armorcote Light Graphite Gelcoat (991NK12)	Gelcoat Application	Styrene	24.37%	0.1085
MBG05a	Armorcote Platinum Gelcoat (991NK124)	Gelcoat Application - MMA	Methyl Methacrylate	6.10%	0.0525
MBG05a	Armorcote Platinum Gelcoat (991NK124)	Gelcoat Application	Styrene	24.05%	0.1070
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	Gelcoat Application - MMA	Methyl Methacrylate	6.12%	0.0525
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	Gelcoat Application	Styrene	24.89%	0.1107
MBG05c	Armorcote Suede Gelcoat (991NK130)	Gelcoat Application - MMA	Methyl Methacrylate	5.90%	0.0450
MBG05c	Armorcote Suede Gelcoat (991NK130)	Gelcoat Application	Styrene	24.08%	0.1071

Product Number	Product Name	UEF Row	Chemical	Weight % (%)	E-Factor (%)
MBG06	Armorcote White Gelcoat (991WH423)	Gelcoat Application - MMA	Methyl Methacrylate	6.50%	0.0525
MBG06	Armorcote White Gelcoat (991WH423)	Gelcoat Application	Styrene	26.36%	0.1173
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	Gelcoat Application - MMA	Methyl Methacrylate	6.17%	0.0525
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	Gelcoat Application	Styrene	24.46%	0.1089
MBG07a	Armorcote Orange Gelcoat (991YK132)	Gelcoat Application - MMA	Methyl Methacrylate	5.58%	0.0450
MBG07a	Armorcote Orange Gelcoat (991YK132)	Gelcoat Application	Styrene	25.03%	0.1114
MBG08	Armorcote Ruben Gelcoat (991RK111)	Gelcoat Application - MMA	Methyl Methacrylate	5.57%	0.0450
MBG08	Armorcote Ruben Gelcoat (991RK111)	Gelcoat Application	Styrene	25.38%	0.1129
MBG08a	Armorcote Regal Gelcoat (991RK112)	Gelcoat Application - MMA	Methyl Methacrylate	5.62%	0.0450
MBG08a	Armorcote Regal Gelcoat (991RK112)	Gelcoat Application	Styrene	25.43%	0.1132
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	Gelcoat Application - MMA	Methyl Methacrylate	5.55%	0.0450
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	Gelcoat Application	Styrene	25.28%	0.1125
MBG08c	Armorcote Pink Gelcoat (991RK124)	Gelcoat Application - MMA	Methyl Methacrylate	7.12%	0.0600
MBG08c	Armorcote Pink Gelcoat (991RK124)	Gelcoat Application	Styrene	24.29%	0.1081
MBG0a	Polycor HG Green Tooling (945GA104)	Gelcoat Application - MMA	Methyl Methacrylate	4.95%	0.0375
MBG0a	Polycor HG Green Tooling (945GA104)	Gelcoat Application	Styrene	42.29%	0.2505
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	Gelcoat Application - MMA	Methyl Methacrylate	4.32%	0.0375
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	Gelcoat Application	Styrene	35.32%	0.1780
MBG0b1	Buffback Black Gelcoat (954BJ232)	Gelcoat Application - MMA	Methyl Methacrylate	4.56%	0.0375
MBG0b1	Buffback Black Gelcoat (954BJ232)	Gelcoat Application	Styrene	37.07%	0.1885
MBM01	MEKP9 (Clear & Red)	N/A -- 4% emitted per ind guide	Dimethyl Phthalate	43.00%	0.0172
MBM01	MEKP9 (Clear & Red)	N/A -- assume all emitted	Methyl Ethyl Ketone	2.00%	0.0200
MBM02	Aquawash (095-0040)	N/A	No reportable HAPs	0.00%	0.0000

**Malibu Boats Merced Plant**

<b>Product Number</b>	<b>Product Name</b>	<b>UEF Row</b>
MBM02a	Flex-Z 1, 2, 3, 4, 5 & 6	N/A
MBM02b	Zyvax Surface Cleaner	N/A -- assume all emitted
MBM02b	Zyvax Surface Cleaner	N/A -- assume all emitted
MBM02c	Zyvax Sealer GP	N/A
MBM03	Patchaid (970XJ037)	Manual
MBP01	EZ Bond Adhesive (5787W00077)	Manual
MBR02	Resin (LHPC3523)	Mechanical Non-Atomized
MBR02	Resin (LHPC3523)	Mechanical Non-Atomized
MBR02a	Resin (LHPC4121)	Mechanical Non-Atomized
MBR02a	Resin (LHPC4121)	Mechanical Non-Atomized
MBR03	Stypol (LSPA-2201)	Mechanical Non-Atomized
MBR04	Eastman Resin (733-2246)	Mechanical Non-Atomized
VLER-4000	VE Resin (VLER-4000)	Mechanical Non-Atomized
VSXH-2200	VE Resin (VSXH-2200)	Mechanical Non-Atomized
Zyv GP	Zyvax Sealer GP	N/A
Zyv SC	Zyvax Surface Cleaner	N/A -- assume all emitted
Zyv SC	Zyvax Surface Cleaner	N/A -- assume all emitted

### Emission Factor Documentation

Chemical	Weight % (%)	E-Factor (%)
No reportable HAPs	0.00%	0.0000
Methyl Ethyl Ketone	50.00%	0.5000
Toluene	50.00%	0.5000
No reportable HAPs	0.00%	0.0000
Styrene	57.48%	0.1115
Styrene	30.00%	0.0378
Alpha Methyl Styrene	1.00%	0.0011
Styrene	31.62%	0.0338
Alpha Methyl Styrene	1.00%	0.0011
Styrene	31.62%	0.0338
Styrene	32.62%	0.0349
Styrene	33.50%	0.0370
Styrene	32.00%	0.0342
Styrene	34.89%	0.0385
No reportable HAPs	0.00%	0.0000
Methyl Ethyl Ketone	50.00%	0.5000
Toluene	50.00%	0.5000

Check X 2

ATC \$355.00

ERC \$759.00

THIS CHECK IS VOID WITHOUT A COLORED BORDER AND BACKGROUND PLUS A KNIGHT & FINGERPRINT WATERMARK ON THE BACK - HOLD AT ANGLE TO VIEW.



One Malibu Court- Merced, CA 95340  
Phone: (209) 383-7469 Fax: (209) 383-0499

Wells Fargo 11-24  
1210

034711

VOID

Pay One Thousand One Hundred Fourteen Dollars and 00 Cents

DATE	AMOUNT
Mar 29, 2010	\$1,114.00

VOID

to the Order of:

San Joaquin Air Pollution District  
4800 Enterprise Way  
Modesto, CA 95356

VOID AFTER 6 MONTHS

*Robi Banks*

SIGNATURE AREA CONTAINS A KNIGHT & FINGERPRINT CHECK WORDING

⑈034711⑈ ⑆121000248⑆ 4235107281⑈

ABSENCE OF PINK U.S. PATENT NUMBERS UNDER SIGNATURE INDICATES CHECK IS FRAUDULENT. PATENT NUMBERS ARE PRINTED WITH HEAT SENSITIVE INK & WILL DISAPPEAR WHEN BLOWING OR RUBBING



APPENDIX C

Material Safety Data Sheets

One hardcopy example enclosed, see CD for others (649 pages)



COPY

April 27, 2010

Jack Springer  
Malibu Boats LLC  
One Malibu Court  
Merced, CA 95340

**Re: Notice of Incomplete Application**  
**Project Number: N-1101305**

Dear Mr. Springer:

The District has received your Emission Reduction Credit (ERC) application for the VOC reductions that occurred as a result of the discontinuation of boat manufacturing activities at One Malibu Court in Merced, CA. Based on our preliminary review, the application has been determined to be incomplete. The following information is required prior to further processing:

1. Please state whether boats or boat related items will be manufactured at a different location. If they will be, please report the manufacturing address.
2. A Baseline Period of other than the two consecutive years immediately preceding the application date was proposed. Based on your reported VOC emissions, the period that is most representative of normal source operations is April 2007 through March of 2009. That period will be the Baseline Period for calculating the bankable emission reductions. Please provide records of the use of each VOC containing material for that period. For each material, please report the permit unit in which it was used, product ID and the type (resin, gel coat, etc) and identify the District Rule 4384 (Table 1) category. Rule 4384 is available at the District's website ([www.valleyair.org](http://www.valleyair.org)). For calendar quarters 1 through 3, the records may be broken down by either month or calendar quarter. For calendar quarter 4, the records must be broken down by calendar month.
3. If known, please state whether the facility is a major source of hazardous air pollutants (HAP) as defined in 40 CFR Part 63 Subpart VVV (National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing). Please provide documentation

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

---

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585

Jack Springer  
Page 2

supporting your determination. If it is not known, and if the District must make that determination, further information may be required.

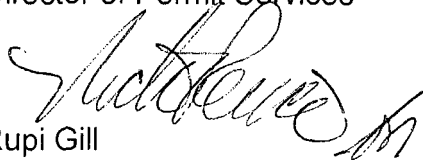
In response, please refer to the above project number, and send to the attention of Mr. Mark Schonhoff.

Please submit the requested information within 30 days. The District will not be able to process your application until this information is received.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Mark Schonhoff at (209) 557-6448.

Sincerely,

David Warner  
Director of Permit Services

A handwritten signature in black ink, appearing to read "Rupi Gill", with a stylized flourish at the end.

Rupi Gill  
Permit Services Manager

DW:mjs



May 17, 2010

San Joaquin Valley Air Pollution Control District  
Attn: Mark Schonhoff  
4800 Enterprise Way  
Modesto, CA 95356-8718

RECEIVED

MAY 19 2010

SJVAPCD  
NORTHERN REGION

**RE: Malibu Boats, LLC – Merced, California Plant  
Facility ID N-3941 – Project Number N-1101305  
Response to Requested Information**

Dear Mr. Schonhoff,

This letter is in response to the San Joaquin Valley Air Pollution Control District's (SJVAPCD's) letter dated April 27, 2010 regarding supplemental information regarding Malibu Boats, LLC's (Malibu Boats') air permit application. Responses to your questions are contained below

*1. Please state whether boat or boat related items will be manufactured at a different location.  
If they will be, please report the manufacturing address.*

Boat and boat related items will continue to be manufactured Malibu's existing other plants – the Loudon TN plant (5075 Kimberly Way Loudon, TN) and the Albury, Australia plant.

*2. A Baseline Period of other than the two consecutive years immediately preceding the application date was proposed. Based on your reported VOC emissions, the period that is most representative of normal source operations is April 2007 through March 2009. That period will be the baseline period for calculating bankable emission reductions. Please provide records of the use of each VOC containing material for that period. For each material please report the permit unit in which it was used, product ID and the type (resin, gelcoat, etc.) and identify the District Rule 4384 (Table 1) category. Rule 4384 is available at the District's website (www.valleyair.org). For calendar quarters 1 through 3, the records maybe broken down by either month or calendar quarter. For calendar quarter 4, the records must be broken down by calendar month.*

**Corporate Headquarters:**

One Malibu Court  
Merced, CA 95340  
Phone: (209) 383-7469  
Fax: (209) 383-0499

**Tennessee Plant:**

5075 Kimberly Way  
Loudon, TN 37774  
Phone: (865) 458-5478  
Fax: (865) 458-9052

**Australian Headquarters:**

Unit 3/ 838 Hope Court  
Albury, Australia 2640  
Phone: (0260) 401-174  
Fax: (0260) 404-656

**Internet:**

www.malibuboats.com  
info@malibuboats.com



Please see attached table. The requested emissions breakdown is in the summary table (1st page of Appendix B)

3. If known, please state whether the facility is a major source of hazardous air pollutants (HAP) as defined in 40 CFR Part 63 Subpart VVVV (National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing). Please provide documentation

Mr. Mark Schonhoff - Page 2

May 7, 2010

supporting your determination. If it is not known, and the District must make that determination, further information may be required.

As currently permitted the facility is a major source of HAP and subject to 40 CFR Part 63 Subpart VVVV. As proposed to be permitted, the facility will not be a major source of HAP

and thus not subject to 40 CFR Part 63 Subpart VVVV. All HAP at boat manufacturing facilities are also VOCs. Therefore, the proposed 15 pounds VOC per day limit also limits HAP emissions to less than 15 pounds per day. If the facility operate 365 days per year, annual emissions are limited to less than 2.74 tons per year (i.e., 15 lbs/day \* 365 days/yr / 2000 lbs/ton) which is less than the a major source threshold of HAP (10 tons per year individual HAP and 25 tons per year aggregate HAP).

If you have any questions or need additional information, please contact Paul Zawila at (864)

980-0168. Thank you for your timely processing of this application.

Sincerely,

MALIBU BOATS, LLC

Martin Flores  
Purchasing/EHS Manager

Enclosure

**Corporate Headquarters:**

One Malibu Court  
Merced, CA 95340  
Phone: (209) 383-7469  
Fax: (209) 383-0499

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5075 Kimberly Way  
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Phone: (0260) 401-174  
Fax: (0260) 404-656

**Internet:**

www.malibuboats.com  
info@malibuboats.com

**Mark Schonhoff**

**From:** Paul Zawila [pzawila@valueenvironmental.com]  
**Sent:** Wednesday, July 28, 2010 5:24 PM  
**To:** Mark Schonhoff  
**Subject:** Re: Adhesive Information (N-1101304)

Mark, Either of the materials is added to a gelcoat at approximately 2 percent. The mixed material (98% gelcoat and 2% one of these materials) is then sprayed for warranty repairs. Thus, these materials are more of an additive or filler to the gelcoat versus being a gelcoat in of itself. As such, the categories of 5.1.1.1 would not seem to apply. An alternate way of looking at this is if one were to assume the mixed gelcoat material (98% gelcoat and 2% one of these materials) needs to meet a 35% standard, then the VOC content of the gelcoat being mixed at 98% would need to be less than 34.5% assuming the additive or filler has a styrene of 60%. The gelcoats also meet this criteria. So in summary, I don't think the categories apply to these materials. If the agency doesn't concur then I believe the applicable comparison is on the "as applied" mixed material. Please let me know if you have any questions. Thanks. Paul

-----Original Message-----

**From:** Mark Schonhoff [mailto:Mark.Schonhoff@valleyair.org]  
**Sent:** Tuesday, July 27, 2010 12:15 PM  
**To:** 'Paul Zawila'  
**Subject:** RE: Adhesive Information (N-1101304)

Paul ?

I received the info requested for ATC project N-1101304. In the letter dated July 7, 2010, it is stated that Rule 4384 does not apply to the Patch-Aid because it's used for warranty patch repairs. Can you further explain your basis? It appears to me to be subject to one of the categories of section 5.1.1.1. Thanks.

Mark Schonhoff  
 San Joaquin Valley Air Pollution Control District  
 4800 Enterprise Way  
 Modesto, CA 95366  
 Telephone (209) 557-6448  
 FAX (209) 557-6475  
[mark.schonhoff@valleyair.org](mailto:mark.schonhoff@valleyair.org)



Make one change for clean air!

**From:** Paul Zawila [mailto:pzawila@valueenvironmental.com]  
**Sent:** Friday, July 16, 2010 9:37 AM  
**To:** Mark Schonhoff  
**Subject:** Re: Adhesive Information

Mark, Just a heads up that you should have received the response to the first letter and we should have the response to the second letter next week. Have a great weekend. Paul

-----Original Message-----

**From:** Mark Schonhoff [mailto:Mark.Schonhoff@valleyair.org]  
**Sent:** Wednesday, June 16, 2010 08:18 PM  
**To:** 'Paul Zawila'  
**Subject:** RE: Adhesive Information

Here are those letters Paul.

Mark Schonhoff  
 San Joaquin Valley Air Pollution Control District  
 4800 Enterprise Way  
 Modesto, CA 95366  
 Telephone (209) 557-6448  
 FAX (209) 557-6475  
[mark.schonhoff@valleyair.org](mailto:mark.schonhoff@valleyair.org)



Make one change for clean air!

**From:** Paul Zawila [mailto:pzawila@valueenvironmental.com]  
**Sent:** Thursday, June 10, 2010 7:34 AM  
**To:** Mark Schonhoff  
**Subject:** Adhesive Information

Mark, Below is the requested adhesive information. Please let me know if any questions (864-980-0168). Thanks. Paul

Product Number	Product Name	Category	Purpose
ADH4011	Conbond (ADH4011)	All other substrates	Vinyl to plastic on dash covers, tack vinyl to foam
FB100	Fastbond Foam Adhesive 100, Lavender	All other substrates	Foam to foam

8/10/2010

IPSAh	IPS Adhesive & Activator	Reinforced plastic composite	Decks to hulls, small parts
MA300	ITW Plexus Adhesive (MA300)	Reinforced plastic composite	Decks to hulls, small parts
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	All other substrates	carpet to fiberglass, foam to plastic (seat bases)
MBP01	EZ Bond Adhesive (5787W00077)	N/A	N/A. Putty used as filler on the boat bottom

**Mark Schonhoff**

**From:** Mark Schonhoff  
**Sent:** Tuesday, July 27, 2010 9:15 AM  
**To:** 'Paul Zawila'  
**Subject:** RE: Adhesive Information (N-1101304)

Paul -

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 4800 Enterprise Way  
 Modesto, CA 95366  
 Telephone (209) 557-6448  
 FAX (209) 557-6475  
[mark.schonhoff@valleyair.org](mailto:mark.schonhoff@valleyair.org)



**HEALTHY AIR LIVING**

[www.healthyairliving.com](http://www.healthyairliving.com)

**Make one change for clean air!**

**From:** Paul Zawila [<mailto:pzawila@valueenvironmental.com>]  
**Sent:** Friday, July 16, 2010 9:37 AM  
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**Subject:** Re: Adhesive Information

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**Sent:** Wednesday, June 16, 2010 08:18 PM  
**To:** 'Paul Zawila'  
**Subject:** RE: Adhesive Information

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Mark Schonhoff  
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 4800 Enterprise Way  
 Modesto, CA 95366  
 Telephone (209) 557-6448  
 FAX (209) 557-6475  
[mark.schonhoff@valleyair.org](mailto:mark.schonhoff@valleyair.org)



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[www.healthyairliving.com](http://www.healthyairliving.com)

**Make one change for clean air!**

**From:** Paul Zawila [<mailto:pzawila@valueenvironmental.com>]  
**Sent:** Thursday, June 10, 2010 7:34 AM  
**To:** Mark Schonhoff  
**Subject:** Adhesive Information

Mark, Below is the requested adhesive information. Please let me know if any questions (864-980-0168). Thanks. Paul

Product Number	Product Name	Category	Purpose
ADH4011	Conbond (ADH4011)	All other substrates	Vinyl to plastic on dash covers, tack vinyl to foam
FB100	Fastbond Foam Adhesive 100, Lavender	All other substrates	Foam to foam
IPSAdh	IPS Adhesive & Activator	Reinforced plastic composite	Decks to hulls, small parts
MA300	ITW Plexus Adhesive (MA300)	Reinforced plastic composite	Decks to hulls, small parts
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	All other substrates	carpet to fiberglass, foam to plastic (seat bases)
MBP01	EZ Bond Adhesive (5787W00077)	N/A	N/A. Putty used as filler on the boat bottom

7/27/2010





June 11, 2010

**COPY**

Jack Springer  
Malibu Boats LLC  
One Malibu Court  
Merced, CA 95340

**Re: Notice of Incomplete Application**  
**Project Number: N-1101305**

Dear Mr. Springer:

The District has reviewed the information submitted in response to our letter dated April 27, 2010. Based on this review, your application for Emission Reduction Credits remains incomplete and the following information is required prior to further processing:

1. A summary of the amount of each VOC containing material used during the period of April of 2007 through March of 2009. For calendar quarters 1, 2 and 3, the records may be broken down by either calendar month or calendar quarter. For calendar quarter 4, the records must be broken down by calendar month.
2. To assist the District in determining whether any rules apply to the Patch Booster (5788C90008) or the Patch Aid (970XJ037), please describe their use and state whether they are gelcoats or resins as defined in District Rule 4384. The rule is available at the District's website ([www.valleyair.org](http://www.valleyair.org)).
3. The mix ratio of the Patch Aid and the Patch Aid Reducer.
4. Please state which material the MEKP9 is used to catalyze and report the mix ratio.
5. In your letter the potential to emit of VOC, following implementation of the Authorities to Construct proposed under District project number N-1101304, was stated to be 2.74 tons per year. However, the application material for that project indicates the potential to emit of VOC will be 1.875 tons per year. Please report the correct value.
6. To assist the District in determining whether or not the proposed emission reductions are surplus, please submit a summary of the combined daily VOC emissions from permit units N-3941-1, N-3941-2 and N-3941-3 and a summary of the daily VOC

Seyed Sadredin

Executive Director/Air Pollution Control Officer

---

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585

Jack Springer  
Page 2

emissions from units N-3941-4 and N-3941-5 (separately for each N-3941-4 and N-3941-5).

In response, please refer to the above project number, and send to the attention of Mr. Mark Schonhoff.

Please submit the requested information within 30 days. The District will not be able to process your application until this information is received.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Mark Schonhoff at (209) 557-6448.

Sincerely,

David Warner  
Director of Permit Services

A handwritten signature in cursive script, appearing to read "Ruphi Gill", with a small flourish at the end.

Rupi Gill  
Permit Services Manager  
DW:mjs



San Joaquin Valley Air Pollution Control District  
Attn: Mark Schonhoff  
4800 Enterprise Way  
Modesto, CA 95356-8718

RECEIVED

AUG 18 2010

**RE: Malibu Boats, LLC – Merced, California Plant  
Facility ID N-3941 – Project Number N-1101304  
Response to Requested Information**

SJVAPCD  
NORTHERN REGION

Dear Mr. Schonhoff,

This letter is in response to the San Joaquin Valley Air Pollution Control District's (SJVAPCD's) letter dated June 11, 2010 regarding supplemental information regarding Malibu Boats, LLC's (Malibu Boats') air permit application. Responses to your questions are contained below

1. *A summary of the amount of each VOC containing material used during the period of April of 2007 through March of 2009. For calendar quarters 1, 2 and 3, the records may be broken down by either calendar month or calendar quarter. For calendar quarter 4, the records must be broken down by calendar month.*

Please see attached monthly emission calculations.

2. *To assist the District in determining whether any rule apply to the Path Booster (5788C90008) and Patch Aid (970XJ037), please describe their use and state whether they are gelcoats or resins as defined in Rule 4384. The rule is available at the District's website ([www.valleyair.org](http://www.valleyair.org))*

Do not believe Rule 4684, Section 5.1.1.1 categories apply to these materials. These materials are used for repair patching during warranty work. Either of the materials is added to a gelcoat at approximately 2 percent. The mixed material (98% gelcoat and 2% one of these materials) is then sprayed for warranty repairs.

3. *The mix ratio of Patch Aid and Patch Aid Reducer.*

Either of the materials is added to a gelcoat at approximately 2 percent. The mixed material (98% gelcoat and 2% one of these materials) is then sprayed for warranty repairs

4. *Please state which material the MEKP9 is used to catalyze and report the mix ratio.*

**Corporate Headquarters:**

One Malibu Court  
Merced, CA 95340  
Phone: (209) 383-7469  
Fax: (209) 383-0499

**Tennessee Plant:**

5075 Kimberly Way  
Loudon, TN 37774  
Phone: (865) 458-5478  
Fax: (865) 458-9052

**Australian Headquarters:**

Unit 3/ 838 Hope Court  
Albury, Australia 2640  
Phone: (0260) 401-174  
Fax: (0260) 404-656

**Internet:**

[www.malibuboats.com](http://www.malibuboats.com)  
[info@malibuboats.com](mailto:info@malibuboats.com)

Mr. Mark Schonhoff - Page 2  
August 11, 2010

The MEKP9 is used to catalyze the resins and gelcoats is added at approximately 2 percent (98% gelcoat or resin and 2% catalyst).

5. *In your letter the potential to emit of VOC, following implementation to the Authorities to Construct under proposed under District project number N-1101304, was stated to be 2.74 tons per year. However, the application material for that project indicates the potential to emit of VOC will be 1.875 tons per year. Please report the correct value.*

The application request to permit for 1.875 tons per year of Volatile Organic Compounds is correct. The response letter inadvertently assumed continuous daily operation versus the operation of five days per week and fifty weeks per year.

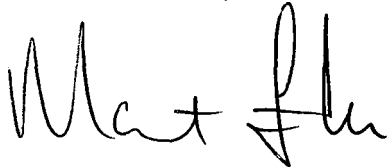
6. *To assist the District in determining whether or not the proposed emission reductions are surplus, please submit a summary of the combined daily VOC emissions from permit units N-3941-1, N-3941-2, and N-3941-3 and a summary of the daily VOC emissions from units N-3941-4 and N-3941-5 (separately for each N-3941-4 and N-3941-5)*

Please see attached summary of daily VOC emissions.

If you have any questions or need additional information, please contact Paul Zawila at (864) 980-0168. Thank you for your timely processing of this application.

Sincerely,

MALIBU BOATS, LLC

A handwritten signature in black ink, appearing to read "Martin Flores". The signature is fluid and cursive, with the first name "Martin" and the last name "Flores" clearly distinguishable.

Martin Flores  
Purchasing/EHS Manager

Enclosure



# TELEPHONE RECORD FORM

Project # \_\_\_\_\_

Date/Time/

Initials

Names of All Persons Involved and Conversation Record

4/26/2010	<p>MJB discuss the proj. w/ Paul Zankin of Value Environmental. The only wish to pursue VOC reductions b/c of the difficulty of determining amt. of intl. treat was sprayed &amp; how much VOC control would have been achieved.</p>
	<p>Evan Powers of CARB called (916) 323-8967. He reviewed the project and CARB will have no comments.</p>
2/21/2012	<p>Donna Tallant of Malibu called. Asked if VOC credits would be issued on a quarterly or annual basis. I told her quarterly. Told her that if they sell only part of what they have then we would issue them a new certificate for what is left over. Told her that once they decide what to do (pursue the ERC's or cancel the ERC application &amp; retain their permitted potential to emit) we may need to discuss a Title II permit. She will get back to me by the end of the public notice period.</p>

ID	Project #
S 1326	1054756
S 75	1071550
N 3941	1101305 ←
S 1246	1101604
S 1548	1110530
S 377	1110837
S 1141	1110869
S 1141	1110869
S 1246	1111012
S 511	1111100
N 3386	1111823
S 1246	1111928
S 1547	1112347
N 845	1112963
C 581	1113010
C 629	1113230
C 948	1113297
C 447	1113298
N 7478	1113684
N 355	1113785
N 3243	1113794
N 1026	1113795
N 1657	1113831
S 1547	1114025
S 382	1114735
S 1548	1114819
S 37	1114829
S 2234	1114896
S 348	1120011
S 349	1120012
S 350	1120013
S 353	1120014

## Mark Schonhoff

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**From:** Rupi Gill  
**Sent:** Monday, March 05, 2012 1:18 PM  
**To:** ENGINEERING (North)  
**Subject:** FW: Title V permits, no EPA comment 3-2-12  
**Attachments:** T5 permits, no EPA comments 3-2-12.xls

**From:** Laura Yannayon [<mailto:Yannayon.Laura@epamail.epa.gov>]  
**Sent:** Friday, March 02, 2012 4:32 PM  
**To:** Jim Swaney; Leonard Scandura; Martin Keast; Rupi Gill  
**Subject:** Title V permits, no EPA comment 3-2-12

Hi Martin,

Please find attached a list of proposed permit actions for which EPA has no comments. This list should bring us up to date on any action proposed before 2-15-12. If I owe anyone any outstanding comments or feedback, please let me know.

Laura Yannayon

\*\*\*\*\*

US EPA, Region 9 / Air Division, Permits Office (Air-3) / San Francisco, CA 94105-3901  
[yannayon.laura@epa.gov](mailto:yannayon.laura@epa.gov) / (415) 972-3534 / (415) 947-3579 (fax)







**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



December 19, 2012

Jack Springer  
Malibu Boats, LLC  
One Malibu Court  
Merced, CA 95340

**RE: Emission Reduction Credits – Final Invoice**  
**Project Number N-1101305**

Dear Mr. Springer:

The District has issued the Emission Reduction Credits (ERC's) for the above referenced project. The certificates that represent those ERC's will arrive under separate cover.

Enclosed is an invoice for the engineering evaluation fees pursuant to District Rule 3010. Please remit the amount owed, along with a copy of the attached invoice within 60 days.

Thank you for your cooperation in this matter. If you have any questions please contact Mark Schonhoff at (209) 557-6448.

Sincerely,

David Warner  
Director of Permit Services



Rupi Gil  
Permit Services Manager

Enclosure

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

Due Date
1/18/2013

Amount Due
\$ 6,958.50

ERCFEE N1101305  
3941 N96674 12/19/2012

Amount Enclosed

**RETURN THIS TOP PORTION ONLY, WITH REMITTANCE TO:**

MALIBU BOATS LLC  
5075 KIMBERLY WAY  
LOUDON, TN 37774

SJVAPCD  
4800 Enterprise Way  
Modesto, CA 95356-8718

*Thank You!*



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

SJVAPCD Tax ID: 77-0262563

Facility ID
N3941

Invoice Date
12/19/2012

Invoice Number
N96674

Invoice Type
Project: N1101305

MALIBU BOATS LLC  
ONE MALIBU COURT  
MERCED, CA

**PROJECT NUMBER: 1101305**

APPLICATION FILING FEES	\$ 759.00
ENGINEERING TIME FEES	\$ 6,958.50
TOTAL FEES	\$ 7,717.50
LESS PREVIOUSLY PAID PROJECT FEES APPLIED TO THIS INVOICE	<u>(\$ 759.00)</u>
<b>PROJECT FEES DUE (Enclosed is a detailed statement outlining the fees for each item.)</b>	<b>\$ 6,958.50</b>

San Joaquin Valley Air Pollution Control District  
4800 Enterprise Way, Modesto, CA 95356-8718, (209) 557-6400, Fax (209) 557-6475

**Invoice Detail**

Facility ID: N3941

MALIBU BOATS LLC  
 ONE MALIBU COURT  
 MERCED, CA

Invoice Nbr: N96674  
 Invoice Date: 12/19/2012  
 Page: 1

**Application Filing Fees**

Project Nbr	Permit Number	Description	Application Fee
N1101305	N-3941-1101305-0	Emission Reduction Credit Banking Evaluation Fee	\$ 759.00
<b>Total Application Filing Fees:</b>			<b>\$ 759.00</b>

**Engineering Time Fees**

Project Nbr	Quantity	Rate	Description	Fee
N1101305	73.5 hours	\$ 105.00 /h	Standard Engineering Time	\$ 7,717.50
			Less Credit For Application Filing Fees	(\$ 759.00)
			Standard Engineering Time SubTotal	\$ 6,958.50
<b>Total Engineering Time Fees:</b>				<b>\$ 6,958.50</b>

# PROJECT ROUTING FORM

FACILITY NAME: Malibu Boats, LLC

FACILITY ID: N-3941 PROJECT NUMBER: N1101305

PERMIT #'s: \_\_\_\_\_

DATE RECEIVED: March 30, 2010

PRELIMINARY REVIEW	ENGR	DATE	SUPR	DATE
A. Application Deemed Incomplete	MJS	4/26/2010	NRP	4/27/2010
Second Information Letter	MJS	6/11/2010	NRP	6/14/2010
B. Application Deemed Complete	MJS	9/17/2010	NRP	9/20/2010
C. Application Pending Denial				
D. Application Denied				

ENGINEERING EVALUATION	INITIAL	DATE
E. Engineering Evaluation Complete	MJS	2/7/2011
F. Supervising Engineer Approval		
G. Compliance Division Approval <input type="checkbox"/> Not Required		
H. Applicant's Review of Draft Authority to Construct Completed <input type="checkbox"/> 3-day Review <input type="checkbox"/> 10-day Review <input type="checkbox"/> No Review Requested		
I. Permit Services Regional Manager Approval	RV	1/24/12

DIRECTOR REVIEW:  Not Required  Required

DIRECTOR REVIEW	INITIAL	DATE
J. Preliminary Approval to Director		
K. Final Approval to Director		

NSPS/NESHAP TRIGGERED:  Yes  No

If "Yes" then do the following:

1. Complete form (on AIRnet at Per » General » Internal Forms : Miscellaneous: NSPS/NESHAP Report) and attach copy to engineering evaluation.
2. Send or email form to Compliance (Tanya Good) after management approval of project.

**Mark Schonhoff**

---

**From:** Paul Zawila [pzawila@valueenvironmental.com]  
**Sent:** Thursday, November 18, 2010 4:34 AM  
**To:** Mark Schonhoff  
**Subject:** Malibu Boats Information Request  
**Attachments:** MPEA, MP-MAC18, & HS-MAC18 (they are combined) Glue, Clear, .pdf; 5788C90007.pdf; ZYV SURFACE CLEANER.pdf; 970XJ037.pdf; 5788C90008.pdf

Mark, Per our phone discussion and your voice mail, attached is the requested information.

1. Westech adhesive. Malibu receives in the 135 pound containers. VOC content is < 80 g/l per attached MSDS.
2. 5788C90007. Was mixed with gelcoat for interior bilge painting to give glossy look. MSDS attached.
3. 3M Finnesse. Wax -- applied w/ sponge and buffed.
4. 3M Paste. Wax -- applied w/ sponge and buffed.
5. Zyvax surface cleaner. MSDS attached.
6. Patchaid. MSDS attached
7. Patchaid Booster. MSDS attached

Permitted emission point 3-2 was viewed as the assembly & finishing area with all emissions being vented out the same stacks. All emissions from this area were reported in the air emissions inventory for this permitted emission point. Please let me know if you have any questions. Thanks. Paul

# CERTIFIED PRODUCT DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Material Identification

**Product ID:** 5788C90007  
**Product Name:** SURFACING AGENT  
**Product Use:** Coatings product.  
**Print date:** 12/Feb/2008  
**Revision Date:** 22/Apr/2004

### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. AS SUPPLIED (AS FORMULATED) PRODUCT PROPERTIES

**VOC % by Weight** 95  
**VOC grams/litre** 853.35  
**Percent VHAP by Weight:** 95  
**LBs VHAP/GAL Solid:** 144.79  
**LBs VHAP/LB Solid:** 19  
**Density (lbs per US gallon):** 7.5

Common Name CAS-No.	Approx. Weight %	HAP Hazardous Air Contaminants CAA 1990
STYRENE MONOMER 100% VOC 100-42-5	95	[present]

The information in this document is provided to assist you in complying with appropriate federal, state and local laws and regulations. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

# The Valspar Corporation

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

**Product ID:** 5788C90007  
**Product Name:** SURFACING AGENT  
**Product Use:** Coatings product.  
**Print date:** 12/Feb/2008  
**Revision Date:** 22/Apr/2004

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
STYRENE MONOMER 100% VOC 100-42-5	90 - 95	Styrene

If this section is blank there are no hazardous components per OSHA guidelines.

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Emergency Overview:

This section not in use.

**This product contains ingredients that may contribute to the following potential acute health effects:**

#### Inhalation Effects:

May cause irritation of the respiratory tract. May irritate mouth, nose, and throat.

#### Eye Contact:

Corneal Injury/eye damage.

#### Skin Contact:

May cause an allergic skin reaction. May cause moderate skin irritation.

#### Acute Ingestion:

None known

#### Other Effects:

May cause central nervous system depression.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

May cause eye damage and pain. May cause redness and blistering of skin. Contains ingredients which have been shown in laboratory animals to cause liver and kidney damage. Possible sensitization.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

#### **4. FIRST AID MEASURES**

**Inhalation:**

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

**Eye Contact:**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes.

**Ingestion:**

If swallowed, get medical attention immediately.

**Medical conditions aggravated by exposure:** Any respiratory or skin condition.

#### **5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):	88° F ( 31° C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	6 %
Autoignition temperature:	Not available. ° F ( ° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Use water spray to cool nearby containers and structures exposed to fire.

#### **6. ACCIDENTAL RELEASE MEASURES**

**Action to be taken if material is released or spilled:**

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid all personal contact.

#### **7. HANDLING AND STORAGE**



**Precautions to be taken in handling and storage:**

Keep away from heat, sparks, and flames. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. Do not store above 85 degrees F (29.4 degrees C). Keep drum out of sun and away from heat. May self-polymerize if uninhibited, heated or involved in a fire. Self-polymerization will be accompanied by evolution of heat, which may cause release of styrene vapors forming flammable mixtures with air.

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS****Personal Protective Equipment****Eye and face protection:**

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

**Skin protection:**

Gloves: Neoprene or other nonporous. Neoprene or plastic apron and protective clothing covering exposed skin areas.

**Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

**Ventilation**

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	90 - 95	100 ppm	200 ppm	

**ACGIH Threshold Limit Value (TLV's)**

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	90 - 95	20 ppm	40 ppm		

If this section is blank, no information is available.

**9. PHYSICAL PROPERTIES**

Odor:

Normal for this product type.

Physical State:

Liquid

## 9. PHYSICAL PROPERTIES

pH:	Not determined.
Vapor pressure:	5 mmHG @ 68° F ( 20° C)
Vapor density (air = 1.0):	5
Boiling point:	293° F ( 145° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	7.5
Specific Gravity:	.9
Evaporation rate (butyl acetate = 1.0):	.01

## 10. STABILITY AND REACTIVITY

Stability:	This product contains an inhibitor and is stable under normal conditions. Please see Section 7 for proper storage and handling information.
Conditions to Avoid:	Heat. Heat or contact with peroxides or other catalysts.
Incompatibility:	Strong oxidizers. Acids or alkalies.
Hazardous Polymerization:	Product may polymerize when exposed to heat.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Aldehydes.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

**Mutagens:**  
None known.

**Teratogens:**  
None known.

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
STYRENE MONOMER 100% VOC 100-42-5	90 - 95			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)

## 12. ECOLOGICAL DATA

Not available at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

**U.S. Department of Transportation**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

**U.S. Highway & Rail Shipments**

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

**International Air Transport Association:**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

**International Maritime Organization:**

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 Non-Bulk UN ID Number: UN1263  
 Packing Group: III

**15. REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS:**

Common Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
STYRENE MONOMER 100% VOC 100-42-5	90 - 95		form R reporting required for 0.1% de minimis concentration	1000

**SARA 311/312 Hazard Class:**

Acute: Yes  
 Chronic: Yes  
 Flammability: Yes  
 Reactivity: No  
 Sudden Pressure: No

**U.S. STATE REGULATIONS:****Pennsylvania Right To Know:**

STYRENE MONOMER 100% VOC 100-42-5

**Additional Non-Hazardous Materials**

PROPRIETARY ADDITIVE

Trade Secret

**Rule 66 status of product**

Not photochemically reactive.

**INTERNATIONAL REGULATIONS - Chemical Inventories****TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

### HMIS Codes

Health:	3
Flammability:	3
Reactivity:	2
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

### Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

## MATERIAL SAFETY DATA SHEET (US)

**MANUFACTURER:** ZYVAX INC.,  
P. O. Box 1825  
E. ELLIJAY  
GA 30539.  
USA.

**PRODUCT INFORMATION**

**EMERGENCY PHONE:** (800) 424-9300  
**NON EMERGENCY PHONE:** (706) 698-4405

**PREPARATION DATE:** December 2001

### SECTION 1: IDENTIFICATION

**PRODUCT NAME:** SURFACE CLEANER

**PRODUCT CODE:** SFCCS

**DOT SHIPPING NAME:** COMPOUND, CLEANING LIQUID (2-BUTANONE)

**DOT ID NUMBER:** NA 1993 Domestic US or UN1993 (International Shipments Only)

**DOT HAZARD CLASSIFICATION:** FLAMMABLE LIQUID

**PRODUCT APPEARANCE & ODOR:** COLOURLESS LIQUID WITH CHARACTERISTIC SOLVENT ODOR

### SECTION 2: COMPONENTS & HAZARD INFORMATION

COMPONENT	CAS No.	CONC. %W/W	OSHA/TWA	ACGIH/TLV
2-BUTANONE	78-93-3	30 - 50%	200.00	200.00 [TWA]
TOLUOL	108-88-3	50 - 70%	100.00	100.00 [TWA]

This product contains the following chemicals that are subject to the reporting requirements of SARA 313 and 40 CFR 372:

2-Butanone	CAS 78-93-3	30 - 50%
Toluol	CAS 108-88-3	50 - 70%

### SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

<b>BOILING RANGE:</b>	<b>175 - 232 °F</b>	<b>EVAPORATION RATE [BuAc = 1]:</b>	<b>3.2</b>
<b>SPECIFIC GRAVITY:</b>	<b>0.845</b>	<b>VAPOR PRESSURE [mm Hg]:</b>	<b>45</b>
<b>SOLUBILITY IN WATER:</b>	<b>2.5 - 45%</b>	<b>VAPOR DENSITY [Air = 1]:</b>	<b>2.85</b>
<b>REACTION WITH WATER:</b>	<b>None</b>	<b>VOLOILES:</b>	<b>100%</b>

### SECTION 4: REACTIVITY DATA

**STABILITY:** Stable

**INCOMPATIBILITY:** Strong acids/bases, oxidizers, alkali metals, halogens.

**CONDITIONS TO AVOID:** All sources of ignition [see Section 5 & 9]

**DECOMPOSITION PRODUCTS:** Combustion may yield carbon monoxide/dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur

**SECTION 5: FIRE AND EXPLOSION INFORMATION**

FLASH POINT (T CC): **36 °F** EXPLOSIVE LIMIT [% Vol.] UPPER **9.2** LOWER **1.4**  
NFPA HAZARD CLASS HEALTH: **1\*** FLAMMABILITY: **3** REACTIVITY: **0**  
[HAZARD RANKING: 0 = LEAST 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME \* = CHRONIC HEALTH EFFECTS]

UNUSUAL FIRE/EXPLOSION HAZARDS: This material is **FLAMMABLE**, and may be ignited by heat, sparks, or other sources of ignition. Vapors may travel considerable distances to a source of ignition where they may ignite, flashback, or explode. Vapor/air explosion hazard indoors/outdoors or in sewers. Vapors are heavier than air, and may accumulate in low areas. If container is not cooled properly, it may explode in the heat of a fire.

EXTINGUISHING MEDIA: Dry chemical, foam.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear appropriate protective equipment including respiratory protection as conditions warrant. Stop spill/release if it can be done without risk. Move undamaged containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors, and cooling equipment. Avoid spreading burning liquid with water used for cooling purposes.

**SECTION 6: HEALTH HAZARDS AND ROUTES OF ENTRY**

EYE CONTACT: May cause mild eye irritation. Direct contact with the liquid or exposure to the vapors or mists may cause stinging, tearing, and redness.

SKIN CONTACT: May cause mild skin irritation. Prolonged or repeated contact may cause redness, burning, and drying and cracking of the skin. No lasting harmful effects are known.

INHALATION: While this material has a low degree of toxicity, breathing high concentrations of vapors or mists may cause irritation of the nose and throat, and signs of nervous system depression [e.g., headache, dizziness, loss of coordination, and fatigue]. Respiratory symptoms associated with pre-existing lung disorders [e.g., asthma-like conditions] may be aggravated by exposure to this material.

INGESTION: Ingestion of excessive quantities may cause irritation of the digestive tract, and cause signs of nervous system depression. Aspiration hazard - can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

COMMENTS: This material has not been identified as a carcinogen by NTP, IARC, or OSHA. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. Toluol, a component of this product, causes harm to the fetus in laboratory animals. The relevance of these findings to humans is uncertain. Exposure to high concentrations of toluol can cause irreversible changes in the genetic material [DNA] of a cell. The human health consequences of these changes are not fully understood. Persons with pre-existing heart disorders may be more susceptible to irregular heartbeats [arrhythmias] if exposed to high concentrations of this material.

**SECTION 7: EMERGENCY AND FIRST-AID PROCEDURES**

EYE CONTACT: Flush with lots of clean water. If irritation or redness develops and persists, seek medical attention.

SKIN CONTACT: Remove contaminated clothing and wash affected areas thoroughly with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION: Move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, qualified personnel should administer oxygen. Seek immediate medical attention.

INGESTION: Potential aspiration hazard. If swallowed, seek emergency medical attention. If victim is drowsy or unconscious, place on the left side with the head down and do not give anything by mouth. Because of potential toxicity, if victim is conscious and alert, vomiting should be induced for ingestion of large amounts [more than 5 ozs. in adults] preferably with syrup of ipecac under direction from a physician or poison center. If possible, do not leave victim unattended.

**SECTION 8: SPECIAL PROTECTION INFORMATION**

**VENTILATION:** Maintain airborne concentrations below the established exposure limits [see Section 2] via mechanical ventilation or exhaust systems as necessary.

**RESPIRATORY PROTECTION:** Respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration use a respirator or gas mask with appropriate cartridges or canisters [NIOSH approved] or supplied air equipment.

**EYE PROTECTION:** Approved eye protection [e.g., goggles with side shields] is recommended to safeguard against potential eye contact, irritation, or injury.

**COMMENTS:** A source of clean water should be readily accessible in the work area for flushing eyes and skin. Chemical and solvent resistant clothing should be worn. Good manufacturing practices should always be followed.

**SECTION 9: SPILL AND LEAK PROCEDURES**

**PRECAUTIONS IN CASE OF RELEASE OR SPILL:**  
**FLAMMABLE.** Keep all sources of ignition and hot metal surfaces away from spill/release. Isolate hazard area and limit entry. Stop spill/release if it can be done without risk. Wear appropriate protective equipment as conditions warrant. Prevent spilled material from entering sewers, storm drains, and natural waterways. Dike far ahead of spill for later recovery and disposal. Use absorbent material for pick-up. Notify fire authorities and appropriate federal, state, and local agencies. Immediate clean up of any spilled material is recommended.

**WASTE DISPOSAL METHODS:**  
Dispose of product in accordance with local, state, and federal regulations.  
The following information may be useful in complying with various state and federal laws and regulations under various environmental statutes:

**REPORTABLE QUANTITY [RQ], EPA REGULATION 40 CFR 302 [CERCLA section 102]**  
The RQ for Toluol is 1000 lbs., equivalent to approx. 2000 lbs of this product.  
The RQ for 2-Butanone is 5000 lbs, equivalent to approx. 10,000 lbs of this product.

**THRESHOLD PLANNING QUANTITY [TPQ], EPA REGULATION 40 CFR 355 [SARA sections 301 - 304]**  
No TPQ for product or any constituent greater than 1.0 % or 0.1 % [carcinogen].

**TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 [SARA section 313]**  
This product contains approx. 30 - 50 % 2-Butanone  
This product contains approx. 50 - 70 % Toluol

**HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 [SARA sections 311 - 312]**  
**EPA HAZARD CLASSIFICATION CODE:** ACUTE CHRONIC FIRE PRESSURE REACTIVE  
XXX XXX XXX

**SECTION 10: STORAGE AND SPECIAL PRECAUTIONS**

**HANDLING & STORAGE PRECAUTIONS:**  
Use and store this material in a cool, dry, well-ventilated area, away from heat and all sources of ignition. Keep containers closed. Store only in approved containers. Keep away from incompatible materials [see Section 4]. Protect containers against physical damage. Do not enter confined spaces, such as tanks, without following proper entry procedures such as ASTM D-4276. The use of respiratory protection is advised when concentrations exceed the established exposure limits [see Section 2]. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. "Empty" containers retain residue [liquid and/or vapor] and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to a drum reconditioner, or disposed of in an environmentally safe manner, and in accordance with government regulations. Refer to OSHA regulations ANSI Z49.1 before working on or in tanks which contained this product.

**SECTION 11: PRECAUTIONARY WARNING**

**WARNING!**  
**FLAMMABLE. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. KEEP AWAY FROM HEAT, SPARKS, FLAME, OR OTHER IGNITION SOURCES [e.g., STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT]. DO NOT TASTE OR SWALLOW. IF SWALLOWED, CALL A PHYSICIAN. IN CASE OF CONTACT, FLUSH EYES OR SKIN WITH LOTS OF CLEAN WATER.**

<b>SECTION 12: DOCUMENTARY INFORMATION</b>
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DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date of issuance. However, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED, OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION, OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose, and on the condition that he assumes the risk of his use thereof.



MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: PATCHAID  
DESCRIPTION: PATCHAID  
PRODUCT CODE IDENTITY: 970XJ037  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 08  
LAST REVISED : 04/17/2006  
DATE OF ISSUE: 02/09/2007  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

\*\*\* The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. \*\*\*

SECTION II INGREDIENTS

1  
CAS# 027253-31-2  
COBALT NEODECANOATE, 26% COBALT  
PCT BY WT: .0200  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 12% COBALT  
PCT BY WT: .0700  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

57.4 [ 3  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 57.3980 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)

LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLO: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

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4  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY AND CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 30 - 40  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED  
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-2 in the appropriate  
subsection above under OTHER LIMITS.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 8.5578 LB/GL  
Theoretical Specific Gravity, Calculated: 1.028  
Theoretical VOC, Calculated: 4.991 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: TRANSLUCENT  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: -N/A  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: -N/A  
Static Electricity Explosion: -N/A  
% HAP BY WEIGHT 57.470  
% MONOMER BY WEIGHT 57.390  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

FLAMMABILITY CHARACTERISTICS:  
Lowest Closed Cup Flashpoint: 88.0 degrees F  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
DOT Shipping Name:  
RESIN SOLUTION, 3, UN1866, PG III

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Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III  
EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

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SECTION V HEALTH HAZARD DATA  
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EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association

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between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."  
An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.  
Lung effects have been observed in the mouse following repeated exposure to styrene.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst.  
Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

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SECTION VII SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

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PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY  
-----

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COBALT NEODECANOATE, 26% COBALT  
CAS# 027253-31-2 PCT BY WT: .0200

COBALT 2-ETHYLHEXANOATE, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .0700

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 57.3980

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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

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\* 970XJ037 \*  
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at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

# The Valspar Corporation

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

**Product ID:** 5788C90008  
**Product Name:** 7-3984 PATCH REDUCER *Booster*  
**Product Use:** Paint product.  
**Date Published:** 2005/03/01  
**Revision Date:** 2005/03/01

#### Company Identification

The Valspar Corporation  
210 East Alondra Blvd.  
Gardena, California 90248  
**Manufacturer's Phone:** 1-310-352-3087

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS #	Approx Wt%	Chemical name
STYRENE MONOMER 100% VOC 100-42-5	60 - 65	Styrene

If this section is blank there are no hazardous components per OSHA guidelines.

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Emergency Overview:

This section not in use.

**This product contains ingredients that may contribute to the following potential acute health effects:**

#### Inhalation Effects:

May cause irritation of the respiratory tract. May irritate mouth, nose, and throat.

#### Eye Contact:

Corneal Injury/eye damage.

#### Skin Contact:

**Product ID:** 5788C90008



May cause an allergic skin reaction. May cause moderate skin irritation.

**Acute Ingestion:**

None known

**Other Effects:**

May cause central nervous system depression.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

May cause eye damage and pain. May cause redness and blistering of skin. Contains ingredients which have been shown in laboratory animals to cause liver and kidney damage. Possible sensitization.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

#### **4. FIRST AID MEASURES**

**Inhalation:**

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

**Eye Contact:**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes.

**Ingestion:**

If swallowed, get medical attention immediately.

**Medical conditions aggravated by exposure:** Any respiratory or skin condition.

#### **5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):	88° F ( 31° C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	6 %
Autoignition temperature:	Not available.° F ( ° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Use water spray to cool nearby containers and structures exposed to fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Action to be taken if material is released or spilled:

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid all personal contact.

## 7. HANDLING AND STORAGE

### Precautions to be taken in handling and storage:

Keep away from heat, sparks, and flames. Keep container closed when not in use. Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. Do not store above 85 degrees F (29.4 degrees C). Keep drum out of sun and away from heat.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

### Personal Protective Equipment

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Gloves: Neoprene or other nonporous. Neoprene or plastic apron and protective clothing covering exposed skin areas.

#### Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

Common Name CAS #	Approx Wt%	TWA (final)	Ceilings limits (final)	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	60 - 65	100 ppm	200 ppm	

#### ACGIH Threshold Limit Value (TLV's)

Product ID: 5788C90008

Common Name CAS #	Approx Wt%	TWA	STEL	Ceiling limits	Skin designations
STYRENE MONOMER 100% VOC 100-42-5	60 - 65	20 ppm	40 ppm		

If this section is blank, no information is available.

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	5 mmHG @ 68° F ( 20° C)
Vapor density (air = 1.0):	3.6
Boiling point:	293° F ( 145° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	8.16
Specific gravity (water = 1)	.98
Evaporation rate (butyl acetate = 1.0):	Not determined.

## 10. STABILITY AND REACTIVITY

Stability	This product contains an inhibitor and is stable under normal conditions. Please see Section 7 for proper storage and handling information.
Conditions to Avoid:	Heat. Heat or contact with peroxides or other catalyts.
Incompatibility:	Strong oxidizers. Acids or alkalies. Acids.
Hazardous Polymerization:	Product may polymerize when exposed to heat.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

**Sensitivity to static discharge:** Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

**Mutagens:**

**Teratogens:**

**Carcinogens:**

Contains styrene which is listed by IARC as a possible human carcinogen based on animal data. Long term animal studies nor human epidemiology studies of workers exposed to styrene provide an adequate basis to conclude styrene is carcinogenic.

Common Name CAS #	Approx Wt%	IARC Group 1 - Human Evidence	IARC Group 2A - limited human data	IARC Group 2b - sufficient animal data

STYRENE MONOMER 100% VOC 100-42-5	60 - 65			Monograph 60, 1994; (Overall evaluation upgraded from 3 to 2B with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)
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If this section is blank, no information is available.

## 12. ECOLOGICAL DATA

Not available at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### 49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

### International Air Transport Association:

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

### International Maritime Organization:

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number: UN1263  
Packing Group: III

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Common Name CAS #	Approx Wt%	SARA 302	SARA 313	CERCLA RQ IN LBS.
STYRENE MONOMER 100% VOC 100-42-5	60 - 65		form R reporting required for 0.1% de minimis concentration	100 LBS 1000 LBS

**SARA 311/312 Hazard Class:**

Acute: Yes  
Chronic: Yes  
Flammability: Yes  
Reactivity: No  
Sudden Pressure: No

**U.S. STATE REGULATIONS:**

**Pennsylvania Right To Know:**

STYRENE MONOMER 100% VOC 100-42-5

**Additional Non-Hazardous Materials**

SUPPLIER TRADE SECRET Trade Secret

**Rule 66 status of product** Not photochemically reactive.

**INTERNATIONAL REGULATIONS - Chemical Inventories**

**TSCA Inventory:** All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:** All components of this product are listed on the Domestic Substances List.

**16. OTHER INFORMATION**

**HMIS Codes**

Health: 3  
Flammability: 3  
Reactivity: 2  
PPE: X - See Section 8 for Personal Protective Equipment (PPE).

**Abbreviations:**

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

**Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information.

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**ERC Application Evaluation  
Project # 1101305  
Application # N-942-1**

Engineer: Mark Schonhoff  
Date: January 23, 2012

Company Name: Malibu Boats  
Mailing Address: One Malibu Court  
Merced, CA 95340

Contact Name: Jack Springer  
Phone: (209) 383-7469

Date Application Received: March 30, 2010  
Date Application Deemed Complete: September 17, 2010

**I. Summary:**

The applicant is proposing to receive the following quantities of Emission Reduction Credits (ERC's) for reductions in VOC emissions due to the discontinuation of boat manufacturing at the facility. The facility will continue to perform warranty work and build small parts. Boat manufacturing will be transferred to facilities outside of California.

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total (annual)
VOC (lb)	13,753	22,879	14,803	14,093	65,528

**II. Applicable Rules:**

Rule 2301: Emission Reduction Credit Banking (Adopted September 19, 1991)  
Amended March 11, 1992; Amended December 17, 1992)

**III. Location of Reductions:**

One Malibu Court  
Merced, CA

#### **IV. Method of Generating Reductions:**

The ERC's will be generated by reducing the usage of VOC containing materials in the following operations. The District has issued Authorities to Construct, that once converted to Permits to Operate, will require the emission limits assumed in the reduction calculations.

Permit Number	Description
N-3941-1	Gelcoat Application Operation
N-3941-2	Gelcoat Application Operation
N-3941-3	Polyester Resin & Adhesive Application Operations
N-3941-4	Gelcoat Application Operation
N-3941-5	Polyester Resin & Adhesive Application Operations

#### **V. ERC Calculations:**

##### **A. Assumptions and Emission Factors:**

###### **Assumptions:**

The gelcoat and resin VOC emissions consisted solely of monomers.

The facility currently manufactures complete boats and parts for boats. Therefore, defining the facility's production rate for the Baseline Period determination would not be practical. The VOC emissions will be utilized as a surrogate for production rate.



### Emission Factors:

The emission factors are summarized below. Refer to appendix A of this document for detailed calculations.

### **Resins & Gelcoats**

Material	Category	Emission Factor (lb VOC/10 <sup>3</sup> lb)
Optiplus 040-8094	Resin (non-atomized)	56.3
Imedge 100BK201	Pigmented Gelcoat	131.1
Imedge 100RH540	Pigmented Gelcoat	147.7
Imedge 100YH895	Pigmented Gelcoat	150.1
SprayCore 1055LS	Tooling Resin (non-atomized)	27.4
Imedge Barrier Coat 200LK202	Pigmented Gelcoat	132.6
Patch Aid (970XJ037)	Pigmented Gelcoat	261.5
Valspar 5799A90073	Pigmented Gelcoat	145.4
Valspar 5799B90020	Pigmented Gelcoat	144.7
Valspar 5799E90056	Pigmented Gelcoat	143.9
Valspar 5799L90035	Pigmented Gelcoat	171.7
Valspar 5799R90052	Pigmented Gelcoat	147.0
Eastman 733-2246	Resin (non-atomized)	41.3
Polycor 945B023	Tooling Gelcoat (non-atomized)	280.5
Polycor 945GA104	Tooling Gelcoat (non-atomized)	276.3
ArmorFlex 953BK162	Pigmented Gelcoat	229.3
ArmorFlex 953LK160	Pigmented Gelcoat	181.6
Buffback 954BJ232	Pigmented Gelcoat	229.3
Buffback 954LJ261	Pigmented Gelcoat	211.1
ArmorFlex 963LK160	Pigmented Gelcoat	122.4
ArmorFlex 963LK188	Pigmented Gelcoat	126.0
ArmorFlex 963RK139	Pigmented Gelcoat	123.1
ArmorFlex 963RK140	Pigmented Gelcoat	123.8
ArmorPlus 963WH671	Pigmented Gelcoat	134.1
ArmorFlex 963XA220	Clear Gelcoat	260.5
ArmorFlex 963XA221	Clear Gelcoat	258.6
Polycor 965BK183	Tooling Resin (non-atomized)	58.04
ArmorGuard 967BJ244	Pigmented Gelcoat	146.2
Armor Guard 967BK150	Pigmented Gelcoat	148.5
ArmorCote 991AK138	Pigmented Gelcoat	138.6
ArmorCote 991AK139	Pigmented Gelcoat	147.7
ArmorCote 991AK140	Pigmented Gelcoat	131.1

## Resins & Gelcoats - Continued

Material	Category	Emission Factor (lb VOC/10 <sup>3</sup> lb)
ArmorCote 991BK136	Pigmented Gelcoat	151.6
ArmorCote 991BK139	Pigmented Gelcoat	152.4
ArmorCote 991GH359	Pigmented Gelcoat	153.6
ArmorCote 991GH369	Pigmented Gelcoat	151.6
ArmorCote 991LK123	Pigmented Gelcoat	136.3
ArmorCote 991LK141	Pigmented Gelcoat	145.4
ArmorCote 991LK142	Pigmented Gelcoat	147.0
ArmorCote 991NH788	Pigmented Gelcoat	146.2
ArmorCote 991NK123	Pigmented Gelcoat	135.6
ArmorCote 991NK124	Pigmented Gelcoat	133.3
ArmorCote 991NK125	Pigmented Gelcoat	140.1
ArmorCote 991NK130	Pigmented Gelcoat	132.6
ArmorCote 991PK105	Pigmented Gelcoat	141.6
ArmorCote 991RK111	Pigmented Gelcoat	139.3
ArmorCote 991RK112	Pigmented Gelcoat	140.8
ArmorCote 991RK118	Pigmented Gelcoat	138.6
ArmorCote 991RK124	Pigmented Gelcoat	143.1
ArmorCote 991WH423	Pigmented Gelcoat	154.8
ArmorCote 991YK125	Pigmented Gelcoat	137.1
ArmorCote 991YK132	Pigmented Gelcoat	137.1
Imedge 9EXFB379	Pigmented Gelcoat	129.7
Imedge 9EXFB385	Pigmented Gelcoat	137.8
Imedge 9EXFB389	Pigmented Gelcoat	136.3
Imedge 9EXFB395	Pigmented Gelcoat	140.8
IPS 300 Series	Resin Type Adhesive	58.3
Stypol LHPC-3523	Resin (non-atomized)	36.2
Stypol LHPC-4121	Resin (non-atomized)	36.1
Stypol LSPA-2201	Resin (non-atomized)	38.8
EZBOND 5787W00077	Resin (non-atomized)	32.1
Stypol LSPK-2221	Resin (non-atomized)	45.0
ITW SprayCore SC-VELR-4000	Resin (non-atomized)	37.2
ArmorStar VSXH-2200	Resin (non-atomized)	45.3

## Resin & Gelcoat Additives

Material	VOC Content
Norox MEKP-9 Resin & Gelcoat Catalyst	45% by weight
Surfacing Agent (85-X3) – Gelcoat Additive	95% by weight

Material	Category	Emission Factor (lb VOC/10 <sup>3</sup> lb)
Patch Aid Reducer (5788C90279)	Resin (non-atomized)	132.0
Patch Aid Booster/reducer (5788C90008)	Resin (non-atomized)	155.4

## Mold Materials:

Material	Category	VOC Content
Zyvex Mold Sealer GP	Mold Sealer	90% by wt
Zyvax Surface Cleaner	Mold Cleaner	90% by wt
Flex-Z	Mold Release	90% by wt

## General Use Solvents:

Material	VOC Content (lb/gal)
Thermaclean Aquawash	0.07

## Adhesives:

Material	VOC Content
3M Fastbond 100	5 g/l (0.04 lb/gal)
Keyston Bros.ADH4011	250 g/l (2.1 lb/gal) <sup>1</sup>
Westech (MBA-01)	50 g/l (0.42 lb/gal) <sup>2</sup>

<sup>1</sup> The VOC content of this material was discounted from 467 g/l to 250 g/l as explained in section VI.E of this document.

<sup>2</sup> The VOC content of this material was discounted from 80 g/l to 50 g/l as explained in section VI.E of this document.

**Waxes:**

Material	VOC Content (lb/gal)
3M Finesse- It-It Wax	17% by weight
3M Marine Ultra Paste Wax	33.8% by weight

## **B. Baseline Period Determination and Data:**

### **Baseline Period Determination:**

Per section 3.8 of District Rule 2201, the Baseline Period for calculating AER's should be the two year period immediately preceding the ERC application unless another period is deemed more representative of normal source operation. District policy APR-1810 was consulted for further guidance regarding proper Baseline Period selection. The policy states that for reductions authorized by a previous Authority-to-Construct, the baseline Period shall be selected from a period prescribed in Rule 2201 immediately preceding the Authority-to-Construct application date. The Authority-to Construct application was received on March 30, 2010. ERC's are issued on a quarterly basis therefore, the District will consider only full calendar quarters in its Baseline Period analysis. Since January 1 to March 30 of 2010 is not a full calendar quarter, the analysis will begin with the previous complete calendar quarter (quarter 4 of 2009).

To determine whether an alternative Baseline Period is appropriate it is District practice to average five years (20 calendar quarters) of production data and compare that average to the average production rate during the two consecutive years (8 complete calendar quarters) immediately preceding the application for the ATC's authorizing the reductions. If those averages are not equal, then the District may concur that the two years immediately preceding the ATC application date is not representative of normal source operation.

If an alternative Baseline Period is deemed appropriate, the District will examine every 8 consecutive calendar quarter period within the five year period described above and will define the Baseline Period as the 8 consecutive calendar quarters whose production rate was closest to the five year average production rate.

This process essentially defines normal source operation as the average production rate during that five year period and defines the baseline period as the two consecutive years, within that period, whose average production rate is closest to the five year average production rate.

The table below includes three columns. The first identifies the calendar quarter, the second shows the VOC emissions during that calendar quarter<sup>3</sup> and the third shows the difference between the production rate during the previous 8 calendar quarters and the average 5 year production rate. Positive values indicate that the

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<sup>3</sup> As stated in section VI.A of this document, emission rate is being used a surrogate for production rate.

8 calendar quarter average was higher than the 5 year average and negative values indicate the 8 calendar quarter average was less than the 5 year average.

For example, the total emissions for the 8 calendar quarters ending with the fourth calendar quarter of 2006 (Quarter 1 of 2005 through Quarter four of 2006) were 205,034, making the average emissions for that period 25,629 pounds per quarter. The difference between the average quarterly emissions for that period and the 5 year average of 19,711 lb/quarter is 5,918 lb/quarter.

Calendar Quarter	VOC Emissions (lb)	8 Quarter Difference from 5 Year Average (lb)
Q1 2005	25,619	---
Q2 2005	23,719	---
Q3 2005	23,966	---
Q4 2005	23,143	---
Q1 2006	26,704	---
Q2 2006	26,645	---
Q3 2006	24,825	---
Q4 2006	30,413	5,918
Q1 2007	36,792	7,315
Q2 2007	32,321	<b>8,390</b>
Q3 2007	20,233	<b>7,923</b>
Q4 2007	20,790	<b>7,629</b>
Q1 2008	24,606	<b>7,367</b>
Q2 2008	18,280	<b>6,321</b>
Q3 2008	14,881	<b>5,078</b>
Q4 2008	12,331	<b>2,818</b>
Q1 2009	6,576	<b>-959</b>
Q2 2009	2,120	-4,734
Q3 2009	166	-7,242
Q4 2009	92	-9,830
5 year Average	19,711	---

As can be seen, the 8 consecutive calendar quarter period whose production rate is closest to the five year average production rate is Quarter 1 of 2009 back to, and including Quarter 2 of 2007.

The Baseline Period will therefore be Quarter 2 of 2007 through Quarter 1 of 2009.

**Baseline Period Data:****Gelcoats and Resins:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Optiplus 040-8094	2007	---	0	0	0
	2008	0	0	960	960
	2009	0	---	---	---
	Avg	0	0	480	480
Imedge 100BK201	2007	---	0	0	0
	2008	7,430	0	0	7,492
	2009	0	---	---	---
	Avg	3,715	0	0	3,746
Imedge 100RH540	2007	---	0	0	568
	2008	572	0	0	0
	2009	0	---	---	---
	Avg	286	0	0	284
Imedge 100YH895	2007	---	0	0	693
	2008	792	0	0	0
	2009	0	---	---	---
	Avg	396	0	0	347
SprayCore 1055LS	2007	---	10,090	5,500	6,500
	2008	0	18,000	0	2,500
	2009	0	---	---	---
	Avg	0	14,045	2,750	4,500
Imedge Barrier Coat 200LK202	2007	---	0	0	0
	2008	0	19,500	9,800	7,840
	2009	0	---	---	---
	Avg	0	9,750	4,900	3,740
Patch Aid (970XJ037)	2007	---	17	40	48
	2008	88	96	72	32
	2009	16	---	---	---
	Avg	52	57	56	40
Valspar 5799A90073	2007	---	0	0	0
	2008	0	315	450	480
	2009	0	---	---	---
	Avg	0	158	225	240

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Valspar 5799B90020	2007	---	0	0	0
	2008	0	9,470	10,500	0
	2009	5,005	---	---	---
	Avg	2,503	4,735	5,250	0
Valspar 5799E90056	2007	---	0	0	0
	2008	0	180	990	0
	2009	315	---	---	---
	Avg	158	90	495	0
Valspar 5799L90035	2007	---	0	0	0
	2008	0	358	0	0
	2009	180	---	---	---
	Avg	90	179	0	0
Valspar 5799R90052	2007	---	0	0	0
	2008	0	1,260	1,845	1,350
	2009	90	---	---	---
	Avg	45	630	923	675
Eastman 733-2246	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
Polycor 945B023	2007	---	450	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	225	0	0
Polycor 945GA104 (MBG0a)	2007	---	0	0	45
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	23
ArmorFlex 953BK162	2007	---	10,781	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	5,391	0	0
ArmorFlex 953LK160	2007	---	3,291	2,237	1,890
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	1,646	1,119	945



**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Buffback 954BJ232	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
Buffback 954LJ261	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0		0
ArmorFlex 963LK160	2007	---	0	0	0
	2008	1,345	1,494	907	824
	2009	463	---	---	---
	Avg	904	747	454	412
ArmorFlex 963LK188	2007	---	1,237	1,403	795
	2008	778	920	0	0
	2009	52	---	---	---
	Avg	415	1,079	702	398
ArmorFlex 963RK139	2007	---	1,579	196	905
	2008	983	250	143	69
	2009	0	---	---	---
	Avg	492	915	170	487
ArmorFlex 963RK140	2007	---	4,256	3,389	2,939
	2008	4,496	303	0	793
	2009	51	---	---	---
	Avg	2,274	2,280	1,695	1,866
ArmorPlus 963WH671	2007	---	0	0	00
	2008	0	0	0	4,434
	2009	9,030	---	---	---
	Avg	4,515	0	0	2,217
ArmorFlex 963XA220	2007	---	720	1,306	1,080
	2008	2,670	0	0	0
	2009	0	---	---	---
	Avg	1,335	360	653	540
ArmorFlex 963XA221	2007	---	0	0	0
	2008	0	0	1,805	200
	2009	269	---	---	---
	Avg	135	0	903	100
Polycor 965BK183	2007	---	450	469	449
	2008	405	450	1,291	458
	2009	0	---	---	---
	Avg	203	450	880	454

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorGuard 967BJ244 (MBG01)	2007	---	13,130	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	6,565	0	0
Armor Guard 967BK150	2007	---	12,120	12,120	20,200
	2008	24,240	3,925	4,545	11,093
	2009	4,040	---	---	---
	Avg	14,140	8,023	8,333	15,647
ArmorCote 991AK138 (MBG02)	2007	---	1,625	876	836
	2008	920	1,001	396	697
	2009	0	---	---	---
	Avg	460	501	636	767
ArmorCote 991AK139 (MBG02a)	2007	---	559.0	1,094	0
	2008	0	0	501	42
	2009	0	---	---	---
	Avg	0	280	798	21
ArmorCote 991AK140 (MBG02b)	2007	---	911	845	498
	2008	746	0	0	0
	2009	0	---	---	---
	Avg	373	456	423	249
ArmorCote 991BK136 (MBG03)	2007	---	93	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	47	0	0
ArmorCote 991BK139	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
ArmorCote 991GH359	2007	---	102	0	153
	2008	0	254	291	250
	2009	0	---	---	---
	Avg	0	178	146	202

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991GH369	2007	---	249	911	742
	2008	0	244	706	167
	2009	0	---	---	---
	Avg	0	247	809	455
ArmorCote 991LK123 (MBG04)	2007	---	710	458	565
	2008	0	391	0	109
	2009	91	---	---	---
	Avg	46	551	229	337
ArmorCote 991LK141	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
ArmorCote 991LK142 (MBG04b)	2007	---	106	0	0
	2008	0	200	0	0
	2009	0	---	---	---
	Avg	0	153	0	0
ArmorCote 991NH788	2007	---	1,082	959	513
	2008	558	92	708	281
	2009	0	---	---	---
	Avg	279	587	834	397
ArmorCote 991NK123 (MBG05)	2007	---	1,366	1,258	1,482
	2008	298	354	495	146
	2009	0	---	---	---
	Avg	149	860	877	814
ArmorCote 991NK124 (MBG05a)	2007	---	104	522	0
	2008	749	195	276	75
	2009	0	---	---	---
	Avg	375	150	399	38
ArmorCote 991NK125	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991NK130	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
ArmorCote 991PK105	2007	---	45	47	193
	2008	238	96	342	0
	2009	0	---	---	---
	Avg	119	71	195	97
ArmorCote 991RK111 (MBG08)	2007	---	151	0	0
	2008	0	347	0	0
	2009	0	---	---	---
	Avg	0	249	0	0
ArmorCote 991RK112	2007	---	0	0	0
	2008	540	0	0	0
	2009	0	---	---	---
	Avg	270	0	0	0
ArmorCote 991RK118 (MBG08b)	2007	---	0	0	351
	2008	190	0	0	0
	2009	51	---	---	---
	Avg	121	0	0	176
ArmorCote 991RK124 (MBG08c)	2007	---	103	0	0
	2008	149	262	49	50
	2009	0	---	---	---
	Avg	75	131	25	25
ArmorCote 991WH423 (MBG06)	2007	---	27,840	20,900	23,197
	2008	17,960	11,600	16,218	5,322
	2009	0	---	---	---
	Avg	8,980	19,720	18,559	14,260
ArmorCote 991YK125 (MGB07)	2007	---	1,663	1,155	1,066
	2008	752	702	255	0
	2009	0	---	---	---
	Avg	376	1,183	705	533

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991YK132 (MBG07a)	2007	---	767	963	0
	2008	0	597	0	327
	2009	0	---	---	---
	Avg	0	682	482	164
Imedge 9EXFB379	2007	---	0	0	0
	2008	1,977	0	0	616
	2009	0	---	---	---
	Avg	989	0	0	308
Imedge 9EXFB385	2007	---	0	0	0
	2008	1,080	0	0	276
	2009	0	---	---	---
	Avg	540	0	0	138
Imedge 9EXFB389	2007	---	0	0	0
	2008	855	0	0	200
	2009	0	---	---	---
	Avg	428	0	0	100
Imedge 9EXFB395	2007	---	0	0	0
	2008	450	0	0	111
	2009	0	---	---	---
	Avg	225	0	0	56
IPS 300	2007	---	1,172	780	5,583
	2008	610	666	1,993	203
	2009	199	---	---	---
	Avg	405	919	1,387	2,893
Stypol LHPC-3523 (MBR02)	2007	---	80,000	4,329.5	40,040
	2008	197,820	0	0	39,500
	2009	79,480	---	---	---
	Avg	138,650	40,000	2,465	39,770
Stypol LHPC-4121 (MBR02a)	2007	---	282,100	202,240	158,440
	2008	79,680	196,720	123,560	41,700
	2009	0	---	---	---
	Avg	39,840	239,410	162,900	100,070
Stypol LSPA-2201	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0

**Gelcoats and Resins – Continued:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
EZBOND 5787W00077	2007	---	0	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	0	0	0
Stypol LSPK-2221	2007	---	29,280	21,600	24,480
	2008	21,660	15,000	7,500	14,500
	2009	1,000	---	---	---
	Avg	11,330	22,140	14,550	19,490
ITW SprayCore SC-VELR-4000	2007	---	9,450	6,300	1,350
	2008	900	2,700	1,000	0
	2009	0	---	---	---
	Avg	450	6,075	3,650	675
ArmorStar VSXH-2200	2007	---	0	0	5,000
	2008	1,000	2,500	3,500	4,500
	2009	500	---	---	---
	Avg	750	1,250	1,750	4,750

**Gelcoat and Resin Additives:**

Material	Year	Usage (pounds)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Norox MEKP-9	2007	---	8,976	5,728	6,584
	2008	7,488	5,120	3,904	2,620
	2009	1,372	---	---	---
	Avg	4,430	7,048	4,816	4,602
Patch Aid Reducer	2007	---	0	0	0
	2008	0	8	25	8
	2009	8	---	---	---
	Avg	4	4	13	4
Patch Booster (5788C90008)	2007	---	0	40.8	0
	2008	40.8	0	0	0
	2009	0	---	---	---
	Avg	20.4	0	20.4	0
85-X3 Surfacing Agent	2007	---	0	0	0
	2008	0	37.5	37.5	0
	2009	37.5	---	---	---
	Avg	18.8	18.8	18.8	0

**Mold Material:**

Material	Year	Usage (lb)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Zyvax Mold Sealer GP	2007	---	0	0	131.5
	2008	0	58.4	0	58.4
	2009	0	---	---	---
	Avg	0	29.2	0	95.0
Zyvax Surface Cleaner	2007	---	0	0	0
	2008	239.6	8	0	
	2009	0	---	---	---
	Avg	119.8	4	0	0
Flex-Z Mold Release	2007	---	163.5	39.4	24
	2008	0	0	8	24
	2009	0	---	---	---
	Avg	0	81.8	24	24

**General Use Solvents:**

Material	Year	Usage (gallons)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Thermaclean Aquawash	2007	---	94.8	31.7	86.6
	2008	54.9	0	54.9	0
	2009	0	---	---	---
	Avg	27.5	47.4	43.3	43.3

**Adhesives:**

Material	Year	Usage (gallons)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
3M Fastbond 100	2007	---	170	0	0
	2008	0	0	0	0
	2009	0	---	---	---
	Avg	0	85	0	0
Keyston Bros.ADH4011	2007	---	18.1	9.2	12
	2008	50.0	56.9	6.3	19.6
	2009	0.3	---	---	---
	Avg	25.2	37.5	7.8	15.8
Westech (MBA01)	2007	---	2,186	1,214.5	1,457.4
	2008	1214.4	971.5	728.6	485.8
	2009	242.8	---	---	---
	Avg	728.6	1578.8	971.6	971.6

**Waxes:**

Material	Year	Usage (lb)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
3M Finesse-It II Wax	2007	---	0	0	0
	2008	0	0	0	0
	2009	206.2	---	---	---
	Avg	103.1	0	0	0
3M Marine Ultra Paste Wax	2007	---	0	0	0
	2008	0	0	0	0
	2009	2.9	---	---	---
	Avg	1.5	0	0	0



### C. Historical Actual Emissions:

#### Resins & Gelcoats

Material & Emission Factor	Usage & HAE (lb)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Optiplus 040-8094 EF = 56.3 lb/10 <sup>3</sup> lb	Usage	0	0	480	480
	HAE	0	0	27	27
Imedge 100BK201 EF = 131.1 lb/10 <sup>3</sup> lb	Usage	3,715	0	0	3,746
	HAE	487	0	0	491
Imedge 100RH540 EF = 147.7 lb/10 <sup>3</sup> lb	Usage	286	0	0	284
	HAE	42	0	0	42
Imedge 100YH895 EF = 150.1 lb/10 <sup>3</sup> lb	Usage	396	0	0	347
	HAE	59	0	0	52
SprayCore 1055LS EF = 27.4 lb/10 <sup>3</sup> lb	Usage	0	14,045	2,750	4,500
	HAE	0	385	75	123
Imedge Barrier Coat 200LK202 EF = 132.6 lb/10 <sup>3</sup> lb	Usage	0	9,750	4,900	3,740
	HAE	0	1,293	650	496
Patch Aid (970XJ037) EF = 261.5 lb/10 <sup>3</sup> lb	Usage	52	57	56	40
	HAE	14	15	15	10
Valspar 5799A90073 EF = 145.4 lb/10 <sup>3</sup> lb	Usage	0	158	225	240
	HAE	0	23	33	35
Valspar 5799B90020 EF = 144.7 lb/10 <sup>3</sup> lb	Usage	2,503	4,735	5,250	0
	HAE	362	685	760	0
Valspar 5799E90056 EF = 143.9 lb/10 <sup>3</sup> lb	Usage	158	90	495	0
	HAE	23	13	71	0
Valspar 5799L90035 EF = 171.7 lb/10 <sup>3</sup> lb	Usage	90	179	0	0
	HAE	15	31	0	0
Valspar 5799R90052 EF = 147.0 lb/10 <sup>3</sup> lb	Usage	45	630	923	675
	HAE	7	93	136	99
Eastman 733-2246 EF = 41.3 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
Polycor 945B023 EF = 280.5 lb/10 <sup>3</sup> lb	Usage	0	225	0	0
	HAE	0	63	0	0
Polycor 945GA104 (MBG0a) EF = 276.3 lb/10 <sup>3</sup> lb	Usage	0	0	0	23
	HAE	0	0	0	6
ArmorFlex 953BK162 EF = 229.3 lb/10 <sup>3</sup> lb	Usage	0	5,391	0	0
	HAE	0	1,236	0	0
Buffback 954BJ232 EF = 229.3 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
<b>Total – This Page</b>		<b>1,009</b>	<b>3,837</b>	<b>1,767</b>	<b>1,381</b>

**Gelcoats and Resins – Continued:**

Material & Emission Factor	Usage & HAE (lb)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorFlex 953LK160 EF = 181.6 lb/10 <sup>3</sup> lb	Usage	0	1,646	1,119	945
	HAE	0	299	203	172
Buffback 954LJ261 EF = 211.1 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
ArmorFlex 963LK160 EF = 122.4 lb/10 <sup>3</sup> lb	Usage	904	747	454	412
	HAE	111	91	56	50
ArmorFlex 963LK188 EF = 126.0 lb/10 <sup>3</sup> lb	Usage	415	1,079	702	398
	HAE	52	136	88	50
ArmorFlex 963RK139 EF = 123.1 lb/10 <sup>3</sup> lb	Usage	492	915	170	487
	HAE	61	113	21	60
ArmorFlex 963RK140 EF = 123.8 lb/10 <sup>3</sup> lb	Usage	2,274	2,280	1,695	1,866
	HAE	282	282	210	231
ArmorPlus 963WH671 EF = 134.1 lb/10 <sup>3</sup> lb	Usage	4,515	0	0	2,217
	HAE	605	0	0	297
ArmorFlex 963XA220 EF = 260.5 lb/10 <sup>3</sup> lb	Usage	1,335	360	653	540
	HAE	348	94	170	141
ArmorFlex 963XA221 EF = 258.6 lb/10 <sup>3</sup> lb	Usage	135	0	903	100
	HAE	35	0	234	26
Polycor 965BK183 EF = 58.04 lb/10 <sup>3</sup> lb	Usage	203	450	880	454
	HAE	12	26	51	26
ArmorGuard 967BJ244 (MBG01) EF = 146.2 lb/10 <sup>3</sup> lb	Usage	0	6,565	0	0
	HAE	0	960	0	0
Armor Guard 967BK150 EF = 148.5 lb/10 <sup>3</sup> lb	Usage	14,140	8,023	8,333	15,647
	HAE	2,100	1,191	1,237	2,324
ArmorCote 991AK138 (MBG02) EF = 138.6	Usage	460	501	636	767
	HAE	64	69	88	106
ArmorCote 991AK139 (MBG02a) EF = 147.7 lb/10 <sup>3</sup> lb	Usage	0	280	798	21
	HAE	0	41	118	3
ArmorCote 991AK140 (MBG02b) EF = 131.1 lb/10 <sup>3</sup> lb	Usage	373	456	423	249
	HAE	49	60	55	33
ArmorCote 991BK136 (MBG03) EF = 151.6 lb/10 <sup>3</sup> lb	Usage	0	47	0	0
	HAE	0	7	0	0
ArmorCote 991BK139 EF = 152.4 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
ArmorCote 991GH359 EF = 153.6 lb/10 <sup>3</sup> lb	Usage	0	178	146	202
	HAE	0	27	22	31
<b>Total – This Page</b>		<b>3,719</b>	<b>3,396</b>	<b>2,553</b>	<b>3,550</b>

**Gelcoats and Resins – Continued:**

Material & Emission Factor	Usage & HAE (lb)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991GH369 EF = 151.6 lb/10 <sup>3</sup> lb	Usage	0	247	809	455
	HAE	0	37	123	69
ArmorCote 991LK123 (MBG04) EF = 136.3 lb/10 <sup>3</sup> lb	Usage	46	551	229	337
	HAE	6	75	31	46
ArmorCote 991LK141 EF = 145.4 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
ArmorCote 991LK142 (MBG04b) EF = 147.0 lb/10 <sup>3</sup> lb	Usage	0	153	0	0
	HAE	0	22	0	0
ArmorCote 991NH788 EF = 146.2 lb/10 <sup>3</sup> lb	Usage	279	587	834	397
	HAE	41	86	122	58
ArmorCote 991NK123 (MBG05) EF = 135.6 lb/10 <sup>3</sup> lb	Usage	149	860	877	814
	HAE	20	117	119	110
ArmorCote 991NK124 (MBG05a) EF = 133.3 lb/10 <sup>3</sup> lb	Usage	375	150	399	38
	HAE	50	20	53	5
ArmorCote 991NK125 EF = 140.1 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
ArmorCote 991NK130 EF = 132.6 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	HAE	0	0	0	0
ArmorCote 991PK105 EF = 141.6 lb/10 <sup>3</sup> lb	Usage	119	71	195	97
	HAE	17	10	28	14
ArmorCote 991RK111 (MBG08) EF = 139.3 lb/10 <sup>3</sup> lb	Usage	0	249	0	0
	HAE	0	35	0	0
ArmorCote 991RK112 EF = 140.8 (lb/10 <sup>3</sup> lb)	Usage	270	0	0	0
	HAE	38	0	0	0
ArmorCote 991RK118 (MBG08b) EF = 138.6 lb/10 <sup>3</sup> lb	Usage	121	0	0	176
	HAE	17	0	0	24
ArmorCote 991RK124 (MBG08c) EF = 143.1 lb/10 <sup>3</sup> lb	Usage	75	131	25	25
	HAE	11	19	4	4
<b>Total – This Page</b>		<b>200</b>	<b>421</b>	<b>480</b>	<b>330</b>

**Gelcoats and Resins – Continued:**

Material & Emission Factor	Usage & HAE (lb)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
ArmorCote 991WH423 (MBG06) EF = 154.8 lb/10 <sup>3</sup> lb	Usage	8,980	19,720	18,559	14,260
	<b>HAE</b>	<b>1,390</b>	<b>3,053</b>	<b>2,873</b>	<b>2,207</b>
ArmorCote 991YK125 (MGB07) EF = 137.1 lb/10 <sup>3</sup> lb	Usage	376	1,183	705	533
	<b>HAE</b>	<b>52</b>	<b>162</b>	<b>97</b>	<b>73</b>
ArmorCote 991YK132 (MBG07a) EF = 137.1 lb/10 <sup>3</sup> lb	Usage	0	682	482	164
	<b>HAE</b>	<b>0</b>	<b>94</b>	<b>66</b>	<b>22</b>
Imedge 9EXFB379 EF = 129.7 lb/10 <sup>3</sup> lb	Usage	989	0	0	308
	<b>HAE</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>40</b>
Imedge 9EXFB385 EF = 137.8 lb/10 <sup>3</sup> lb	Usage	540	0	0	138
	<b>HAE</b>	<b>74</b>	<b>0</b>	<b>0</b>	<b>19</b>
Imedge 9EXFB389 EF = 136.3 lb/10 <sup>3</sup> lb	Usage	428	0	0	100
	<b>HAE</b>	<b>58</b>	<b>0</b>	<b>0</b>	<b>14</b>
Imedge 9EXFB395 EF = 140.8 lb/10 <sup>3</sup> lb	Usage	225	0	0	56
	<b>HAE</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>8</b>
IPS 300 EF = 58.3 lb/10 <sup>3</sup> lb	Usage	405	919	1,387	2,893
	<b>HAE</b>	<b>24</b>	<b>54</b>	<b>81</b>	<b>169</b>
Stypol LHPC-3523 (MBR02) EF = 36.2 lb/10 <sup>3</sup> lb	Usage	138,650	40,000	2,465	39,770
	<b>HAE</b>	<b>5,019</b>	<b>1,448</b>	<b>89</b>	<b>1,440</b>
Stypol LHPC-4121 (MBR02a) EF = 36.1 lb/10 <sup>3</sup> lb	Usage	39,840	239,410	162,900	100,070
	<b>HAE</b>	<b>1,438</b>	<b>8,643</b>	<b>5,881</b>	<b>3,613</b>
Stypol LSPA-2201 EF = 38.8 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	<b>HAE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
EZBOND 5787W00077 EF = 32.1 lb/10 <sup>3</sup> lb	Usage	0	0	0	0
	<b>HAE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Stypol LSPK-2221 EF = 45.0 lb/10 <sup>3</sup> lb	Usage	11,330	22,140	14,550	19,490
	<b>HAE</b>	<b>510</b>	<b>996</b>	<b>655</b>	<b>877</b>
ITW SprayCore SC-VELR-4000 EF = 37.2 lb/10 <sup>3</sup> lb	Usage	450	6,075	3,650	675
	<b>HAE</b>	<b>17</b>	<b>226</b>	<b>136</b>	<b>25</b>
ArmorStar VSXH-2200 EF = 45.3 lb/10 <sup>3</sup> lb	Usage	750	1,250	1,750	4,750
	<b>HAE</b>	<b>34</b>	<b>57</b>	<b>79</b>	<b>215</b>
<b>Total – This Page</b>		<b>8,776</b>	<b>14,733</b>	<b>9,957</b>	<b>8,722</b>

### Gelcoat and Resin Summary:

	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
Page 17	1,009	3,837	1,767	1,381
Page 18	3,719	3,396	2,553	3,550
Page 19	200	421	480	330
Page 20	8,776	14,733	9,957	8,722
Total	13,704	22,387	14,757	13,983

### Gelcoat and Resin Additives:

Material & Emission Factor	Usage & HAE	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Norox MEKP-9 EF = 45% by wt	Usage (lb)	4,430	7,048	4,816	4,602
	HAE (lb)	1,994	3,172	2,167	2,071
85-X3 Surfacing Agent EF = 95% by wt	Usage (lb)	18.8	18.8	18.8	0
	HAE (lb)	18	18	18	0
Patch Aid Reducer EF = 132.0 lb/10 <sup>3</sup> lb	Usage (lb)	4	4	13	4
	HAE (lb)	1	1	2	1
Patch Booster (5788C90008) EF = 155.4 lb/10 <sup>3</sup> lb	Usage (lb)	20.4	0	20.4	0
	HAE (lb)	3	0	3	0
Total		2,016	3,191	2,190	2,072

### Mold Material:

Material	Usage & HAE	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Zyvax Mold Sealer GP EF = 90% by wt	Usage (lb)	0	29.2	0	95.0
	HAE (lb)	0	26	0	86
Zyvax Surface Cleaner EF = 90% by wt	Usage (lb)	119.8	4	0	0
	HAE (lb)	108	4	0	0
Flex-Z Mold Release EF = 90% by wt	Usage (lb)	0	81.8	24	24
	HAE (lb)	0	74	22	22
Total		108	104	22	108

### General Use Solvents:

Material	Usage & HAE	Usage (gallons)			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4
Thermaclean Aquawash EF = 0.007 lb/gal	Usage (gal)	27.5	47.4	43.3	43.3
	HAE (lb)	0	0	0	0

**Adhesives:**

Material		Quarter 1	Quarter 2	Quarter 3	Quarter 4
3M Fastbond 100 EF = 0.04 lb/gal	Usage (gal)	0	85	0	0
	HAE (lb)	0	3	0	0
Keyston Bros.ADH4011 EF = 2.1 lb/gal	Usage (gal)	25.2	37.5	7.8	15.8
	HAE (lb)	53	79	16	33
Westech (MBA01) EF = 0.42	Usage (gal)	728.6	1578.8	971.6	971.6
	HAE (lb)	306	663	408	408
Total		359	745	424	441

**Waxes:**

Material		Quarter 1	Quarter 2	Quarter 3	Quarter 4
3M Finesse-It II Wax EF = 17% by wt	Usage (lb)	103.1	0	0	0
	HAE (lb)	18	0	0	0
3M Marine Ultra Paste Wax EF = 33.8% by wt	Usage (lb)	1.5	0	0	0
	HAE (lb)	1	0	0	0
Total		19	0	0	0

**Summary of HAE's:**

Emissions in excess of those allowed by the permits occurred during the baseline period. The ERC quantity will be reduced by the amount of the excess emissions. As shown in section VI.E of this document, that quantity was 70 pounds during the second calendar quarter.

Material Category	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
Gelcoats/Resins	13,704	22,387	14,757	13,983
Gelcoat/Resin Additives	2,016	3,191	2,190	2,072
Mold Material	108	104	22	108
General Use Solvents	0	0	0	0
Adhesives	359	745	424	441
Waxes	19	0	0	0
Emission Limit Discounting	0	-71	0	0
Total	16,206	26,356	17,393	16,604

**D. Actual Emission Reductions:**

Per section 4.12 of Rule 2201:

$$\text{AER} = \text{HAE} - \text{PE2}$$

Where HAE is the historical actual reductions (VOC)

HAE<sub>VOC</sub> (Quarter 1): 16,206 lb

HAE<sub>VOC</sub> (Quarter 2): 26,356 lb

HAE<sub>VOC</sub> (Quarter 3): 17,393 lb

HAE<sub>VOC</sub> (Quarter 4): 16,604 lb

PE2 is the post modification potential to emit (VOC)

VOC Emission Limit (Quarter 1): 925 lb

VOC Emission Limit (Quarter 2): 935 lb

VOC Emission Limit (Quarter 3): 945 lb

VOC Emission Limit (Quarter 4): 945 lb

AER<sub>VOC</sub> (Quarter 1) = 16,206 lb – 925 lb = 15,281 lb

AER<sub>VOC</sub> (Quarter 2) = 26,356 lb – 935 lb = 25,421 lb

AER<sub>VOC</sub> (Quarter 3) = 17,393 lb – 945 lb = 16,448 lb

AER<sub>VOC</sub> (Quarter 4) = 16,604 lb – 945 lb = 15,659 lb

**E. Air Quality Improvement Deduction:**

Per District rule 2201, section 4.12.1, a 10% air quality improvement deduction must be applied to the AER's prior to banking. The air quality improvement deductions are as follows:

	Quarter 1 [lb]	Quarter 2 [lb]	Quarter 3 [lb]	Quarter 4 [lb]
VOC	1,528	2,542	1,645	1,566

**F. Increase in Permitted Emissions:**

No IPE associated with this project.

## **G. Bankable Emissions Reductions:**

The bankable reductions are the difference between the AER's and the Air Quality Improvement Deduction.

Quarter 1 = 15,281 lb – 1,528 lb = 13,753 lb

Quarter 2 = 25,421 lb – 2,542 lb = 22,879 lb

Quarter 3 = 16,448 lb – 1,645 lb = 14,803 lb

Quarter 4 = 15,659 lb – 1,566 lb = 14,093 lb

## **VI. Compliance:**

### **A. Real Reductions:**

The reductions were generated by curtailing production. Had the production curtailments not occurred, the emissions for which ERC's are being proposed could still be occurring. Therefore, the reductions are real.

### **B. Enforceable Reductions:**

The reductions for which ERC's are proposed will be generated by curtailing production. The facility has been issued Authorities to Construct (ATC's) to lower the facility-wide emission limits and the proposed ERC's are based on the reductions that would occur as a result of compliance with those ATC's. Prior to issuing the final ERC certificates, conversion of those ATC's to Permits to Operate will be required. Violating the terms of those Permits to Operate would result in enforcement action being taken therefore, the reductions are enforceable.

### **C. Quantifiable Reductions:**

The baseline period emissions were calculated utilizing District approved emission factors and actual baseline period material usages. Therefore, the reductions are quantifiable.

### **D. Permanent Reductions:**

As stated in section VI.B above, the ATC's authorizing the reductions for which ERC's are proposed will have to be converted to Permits to Operate prior to the issuance of the proposed ERC certificates. Should the facility require higher emission limits, Authorities to Construct that would address the validity of the ERC's would be required. Those ATC's may result in the necessity of surrendering all or a portion of the ERC's. Therefore, the reductions are permanent.



**E. Surplus Reductions:**

The applicant is proposing ERC's for polyester resin operations, adhesive application operations and solvent use. To determine whether or not reductions are surplus, the District must examine its current and proposed rules as well as requirements projected to apply to operations for which ERC's are proposed. The District also considers other District's rules during a surplus emission analysis. After examining all current, pending and projected regulations, the District will discount the emission factors to the level of the most stringent rule. And finally, discounting for any baseline period emission limit violations will also be performed. During this analysis, rules from the following agencies will be considered:

- United States Environmental Protection Agency (USEPA)
- California Air Resources Board (CARB)
- San Joaquin Valley Air Pollution Control District (SJVAPCD)
- South Coast Air Quality Management District (SCAQMD)
- Bay Area Air Quality Management District (BAAQMD)
- Sacramento Metropolitan Air Quality Management District (SMAQMD)

Below are the rules that will be considered:

Agency	Polyester Resin and Gelcoating Rule	Adhesives Rule	Solvent Rule
USEPA	40 CFR Part 63 Subpart VVVV	Subpart VVVV	No Rule
CARB	No Rule	No Rule	No Rule
SJVAPCD	4684	4653	4663
SCAQMD	1162	1168	1171
BAAQMD	Reg 8 Rule 50	Reg 8 Rule 51	Reg 8 Rule 16
SMAQMD	465	Rule 460	Rule 466

### **Polyester Resins and Gel Coating Rules:**

The USEPA and District rules offer the option of complying with a monomer content averaging calculation as opposed to an individual monomer content limit for each material. The SCAQMD, BAAQMD and SMAQMD rules all limit the individual material monomer content. Surplussing analyses for the USEPA and District rules will be presented separately while a single surplussing analysis for the SCAQMD, BAAQMD and SMAQMD is most appropriate.

### **40 CFR Part 63 Subpart VVV (National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing):**

This rule applies only to Major HAP sources. Although the reductions for which ERC's are proposed will be enforced by ATC's and PTO's that will result in the facility no longer being a Major HAP source, only the facility's Major HAP source status during the baseline period is relevant. Since the facility was a Major HAP source during the baseline period, the ERC's must be issued assuming compliance with this rule was met. This subpart applies to resin, gelcoating and carpet/fabric adhesives operations.

### **Standards for Resin and Gelcoating Operations:**

The applicant has chosen the MACT Points Value option of section 63.5701 to show compliance with the requirements of this rule. This method is essentially an averaging method by which a calculated HAP emission rate over the previous 12 months is compared to a limit that is referred to as the MACT Points Value. The HAP emission rate is to be calculated as specified in section 63.5698 (equation 1) and the MACT Points Value is to be calculated utilizing equation 1 of section 63.5710. The table below shows each quarterly segment of the baseline period, the HAP emission rate, the MACT Points Value and whether or not compliance was met.

12 Months Ending	NESHAP EQ 1 HAP Limit (Tons)	NESHAP MACT Point Value (Tons)	Compliant
April 2007	61.18	56.01	Yes
May 2007	63.48	57.18	Yes
June 2007	62.40	56.62	Yes
July 2007	62.14	56.00	Yes
August 2007	60.46	54.47	Yes
September 2007	60.13	53.95	Yes
October 2007	59.13	52.77	Yes
November 2007	57.42	51.13	Yes
December 2007	54.95	48.73	Yes
January 2008	55.16	48.48	Yes
February 2008	53.25	46.62	Yes
March 2008	49.48	43.00	Yes
April 2008	48.32	41.63	Yes
May 2008	45.81	39.25	Yes
June 2008	43.05	36.78	Yes
July 2008	41.66	35.61	Yes
August 2008	40.90	35.10	Yes
September 2008	43.03	34.36	Yes
October 2008	39.04	33.51	Yes
November 2008	36.58	31.39	Yes
December 2008	36.07	30.84	Yes
January 2009	31.10	26.62	Yes
February 2009	29.03	24.70	Yes
March 2009	26.90	22.86	Yes

**SJVAPCD Rule 4684 (Polyester Resin Operations, 8/18/2011):**

This rule includes requirements for two types of source. The first is type of stationary source is one with potential VOC emissions of less than 2.7 tons per rolling 12-month period and the second is a source with potential VOC emissions of greater than or equal to 2.7 tons per rolling 12-month period. Although the ERC's will be generated by reducing the facility-wide potential to emit of VOC from above to below 2.7 tons per 12-month rolling period, any necessary discounting must be conducted utilizing the requirements associated with the emission limits in place during the baseline period ( $\geq$  2.7 tons per 12-month rolling period).

Per section 5.2.2.1, the facility is required to comply with one of the following rule sections:

Section 5.2.2.4: Material Monomer Content Limits

Section 5.2.2.5: Emissions Averaging

Section 5.2.2.6: Add-On VOC Control System

Section 5.2.2.5 is intended to be equivalent to the MACT Point Value option utilized to show compliance with 40 CFR Part 63 Subpart VVVV. As shown above, compliance with the MACT Point Value option was achieved during the baseline period, therefore compliance with section 5.2.2.5 of this rule would also have been met. No baseline period emission discounting is required.

**SCAQMD Rule 1162 (Polyester Resin Operations)  
BAAQMD Regulation 8 Rule 50  
SMAQMD Rule 465**

These rules limit the monomer content of polyester resins and gel coats. The following table shows the monomer content of the materials that were utilized during the baseline period and the limits that would have applied if these rules applied.

**Notes Regarding SCAQMD Rule 1162:**

This rule applies to all polyester resin operations that operate in the SCAQMD. Section (c)(2)(A) limits the monomer content of the resins used.

The resins are utilized either as tooling resins or for boat hulls. Therefore, they are Corrosion-Resistant Materials as defined in section (b)(3) of this rule. Per the table in section (c)(2)(A) of this rule, the monomer content limit for such materials is 48%.

The gelcoats are utilized either as tooling gelcoats or for boat hulls. Therefore, they are Specialty Gelcoats as defined in section (b)(36) of this rule. Per the table in section (c)(2)(A) of this rule, the monomer content limit for such materials is 48%.

**Notes Regarding BAAQMD Regulation 8 Rule 50:**

This rule applies to all manufacturing, fabrication, rework, repair and touch-up of composite products made of polyester resins and gelcoats.

The resins were applied utilizing only non-atomized methods therefore, per Table 1, the monomer content limit for boat manufacturing resins is 35% by weight and the monomer limit for tooling resins is 46% by weight.

Per Table 1 of this rule, the monomer content limit for boat manufacturing gelcoats is 48% by weight.

**Notes Regarding SMAQMD Rule 465:**

This rule applies to all polyester resin operations and does not distinguish between resins and gelcoats.

Per section 301, the monomer content limit of non-specialty resins (including gelcoats) is 35% by weight. However, tooling resins meet the definition of specialty resins because they are subjected to corrosive agents during the molding process. The monomer content limit of specialty resins and clear gelcoats is 50% by weight. The monomer content limit of pigmented gelcoats is 45% by weight.

Material	Category	Actual Monomer Content (wt. %)	Monomer Limit (wt. %) SCAQMD Rule 1162	Monomer Limit (wt. %) BAAQMD Reg. 8 Rule 50	Monomer Limit (wt. %) SMAQMD Rule 465
Optiplus 040-8094	Tooling Resin (non-atomized)	38.4	48	46	50
Imedge 100BK201	Pigmented Gelcoat	29.8	48	48	45
Imedge 100RH540	Pigmented Gelcoat	32.0	48	48	45
Imedge 100YH895	Pigmented Gelcoat	32.3	48	48	45
SprayCore 1055LS	Tooling Resin (non-atomized)	27	48	46	50
Imedge Barrier Coat 200LK202	Pigmented Gelcoat	30.0	48	48	45
Patch Booster & PatchAid Reducer	Pigmented Gelcoat	60	48	48	45
Valspar 5799A90073	Pigmented Gelcoat	31.7	48	48	45
Valspar 5799B90020	Pigmented Gelcoat	31.6	48	48	45
Valspar 5799E90056	Pigmented Gelcoat	31.5	48	48	45
Valspar 5799L90035	Pigmented Gelcoat	35	48	48	45
Valspar 5799R90052	Pigmented Gelcoat	31.9	48	48	45
Eastman 733-2246	Resin (non-atomized)	33.5	48	35	35
Polycor 945B023	Tooling Gelcoat	46.92	48	48	50
Polycor 945GA104	Tooling Gelcoat	46.5	48	48	50
ArmorFlex 953BK162	Pigmented Gelcoat	41.6	48	48	45
ArmorFlex 953LK160	Pigmented Gelcoat	36.2	48	48	45

Material	Category	Actual Monomer Content (wt. %)	Monomer Limit (wt. %) SCAQMD Rule 1162	Monomer Limit (wt. %) BAAQMD Reg. 8 Rule 50	Monomer Limit (wt. %) SMAQMD Rule 465
ArmorFlex 953LK160	Pigmented Gelcoat	36.2	48	48	45
Buffback 954BJ232	Pigmented Gelcoat	41.6	48	48	45
Buffback 954LJ261	Pigmented Gelcoat	39.6	48	48	45
ArmorFlex 963LK160	Pigmented Gecoat	28.6	48	48	45
ArmorFlex 963LK188	Pigmented Gelcoat	29.1	48	48	45
ArmorFlex 963RK139	Pigmented Gelcoat	28.7	48	48	45
ArmorFlex 963RK140	Pigmented Gelcoat	28.8	48	48	45
ArmorPlus 963WH671	Pigmented Gelcoat	30.2	48	48	45
ArmorFlex 963XA220	Clear Gelcoat	44.9	48	48	50
ArmorFlex 963XA221	Clear Gelcoat	44.7	48	48	50
Polycor 965BK183	Tooling Resin (non-atomized)	38.9	48	46	50
ArmorGuard 967BJ244	Pigmented Gelcoat	31.8	48	48	45
Armor Guard 967BK150	Pigmented Gelcoat	32.1	48	48	45
ArmorCote 991AK138	Pigmented Gelcoat	30.8	48	48	45
ArmorCote 991AK139	Pigmented Gelcoat	32.0	48	48	45
ArmorCote 991AK140	Pigmented Gelcoat	29.8	48	48	45
ArmorCote 991BK136	Pigmented Gelcoat	32.5	48	48	45
ArmorCote 991BK139	Pigmented Gelcoat	32.6	48	48	45
ArmorCote 991GH359	Pigmented Gelcoat	32.75	48	48	45
ArmorCote 991GH369	Pigmented Gelcoat	32.5	48	48	45

Material	Category	Actual Monomer Content (wt. %)	Monomer Limit (wt. %) SCAQMD Rule 1162	Monomer Limit (wt. %) BAAQMD Reg. 8 Rule 50	Monomer Limit (wt. %) SMAQMD Rule 465
ArmorCote 991LK123	Pigmented Gelcoat	30.5	48	48	45
ArmorCote 991LK141	Pigmented Gelcoat	31.7	48	48	45
ArmorCote 991LK142	Pigmented Gelcoat	31.9	48	48	45
ArmorCote 991NH788	Pigmented Gelcoat	31.8	48	48	45
ArmorCote 991NK123	Pigmented Gelcoat	30.4	48	48	45
ArmorCote 991NK124	Pigmented Gelcoat	30.1	48	48	45
ArmorCote 991NK125	Pigmented Gelcoat	31.0	48	48	45
ArmorCote 991NK130	Pigmented Gelcoat	30.0	48	48	45
ArmorCote 991PK105	Pigmented Gelcoat	31.2	48	48	45
ArmorCote 991RK111	Pigmented Gelcoat	30.9	48	48	45
ArmorCote 991RK112	Pigmented Gelcoat	31.1	48	48	45
ArmorCote 991RK118	Pigmented Gelcoat	30.8	48	48	45
ArmorCote 991RK124	Pigmented Gelcoat	31.4	48	48	45
ArmorCote 991WH423	Pigmented Gelcoat	32.9	48	48	45
ArmorCote 991YK125	Pigmented Gelcoat	30.6	48	48	45
ArmorCote 991YK132	Pigmented Gelcoat	30.6	48	48	45
Imedge 9EXFB379	Pigmented Gelcoat	29.6	48	48	45
Imedge 9EXFB385	Pigmented Gelcoat	30.7	48	48	45
Imedge 9EXFB389	Pigmented Gelcoat	30.5	48	48	45



Material	Category	Actual Monomer Content (wt. %)	Monomer Limit (wt. %) SCAQMD Rule 1162	Monomer Limit (wt. %) BAAQMD Reg. 8 Rule 50	Monomer Limit (wt. %) SMAQMD Rule 465
Imedge 9EXFB395	Pigmented Gelcoat	31.1	48	48	45
Stypol LHPC-3523	Resin (non-atomized)	31.63	48	35	35
Stypol LHPC-4121	Resin (non-atomized)	31.6	48	35	35
Stypol LSPA-2201	Resin (non-atomized)	32.6	48	35	35
EZBOND 5787W00077	Resin (non-atomized)	30	48	35	35
Stypol LSPK-2221	Resin (non-atomized)	34.8	48	35	35
ITW SprayCore SC-VELR-4000	Resin (non-atomized)	32	48	35	35
ArmorStar VSXH-2200	Resin (non-atomized)	34.9	48	35	35

As can be seen, the monomer content of the patch Booster/Patch Aid must be discounted from 60% by weight to 45% by weight as would be required by SMAQMD Rule 465. The emission factor for this material will therefore be calculated utilizing a monomer content of 45% by weight.

## **Adhesives Rules:**

### **40 CFR Part 63 Subpart VVVV**

Section 63.5740 limits the HAP content of adhesive materials used for carpet and fabric to 5 percent by weight. The only material utilized in these types of operations is the Westech HS-MAC-18, HP-MAC-18 and MPEA. Section 63.5740(b) requires that the HAP content demonstration be made in accordance with section 63.5758. Section 63.5758(a)(5) states that information from the supplier or manufacturer of the material be relied upon in making this determination. The material safety data sheet for the material states that to the nearest 1%, the HAP content is zero. Information from the applicant indicates that the HAP content is actually 0.1% by weight. Therefore, the material complies with this limit.

Note: Although other adhesives were utilized, no others were used in carpet or fabric operations.

### **Compliance Summary:**

Compliance with the requirements of this subpart was met during the baseline period. Therefore, no discounting for compliance with this rule is required.

### **SJVAPCD Rule 4653 (Adhesives)**

The only materials that are adhesives in the traditional sense are the Westech HS-MAC-18, HP-MAC-18 and MPEA, the 3M Fastbond and the Keaston Brothers ADH 4011. The others identified as adhesives are actually polyester resins that are subject to Rule 4684.

The table below shows the material ID, its use, the applicable VOC content limit and the actual VOC content.

Material ID	Use	Rule 4653 Category	VOC Content Limit	Actual VOC Content
			g/l less water and exempts	
Westech HS-MAC-18	Carpet Installation	Floor Covering Installation	150	80
Westech HP-MAC-18	Carpet Installation	Floor Covering Installation	150	80
Westech MPEA	Carpet Installation	Floor Covering Installation	150	80
3M Fastbond 100	Foam Bonding	Plastic Foam	50	5
ADH 4011	Vinyl to Foam	Flexible Vinyl Adhesive	250	467

As can be seen, the VOC content of the flexible vinyl adhesive must be discounted to the 250 g/l SJVAPCD Rule 4653 level.

**SCAQMD Rule 1168 (Adhesive and Sealant Applications)**

The only materials that are adhesives in the traditional sense are the Westech HS-MAC-18, HP-MAC-18 and MPEA, the 3M Fastbond and the Keaston Brothers ADH 4011. The others identified as adhesives are actually polyester resins that are subject to Rule 4684.

The table below shows the material ID, its use, the applicable VOC content limit and the actual VOC content.

Material ID	Use	Rule 1168 Category	VOC Content Limit	Actual VOC Content
			g/l less water and exempts	
Westech HS-MAC-18	Carpet Installation	Porous Materials	50	80
Westech HP-MAC-18	Carpet Installation	Porous Materials	50	80
Westech MPEA	Carpet Installation	Porous Materials	50	80
3M Fastbond 100	Foam Bonding	Plastic Foam	50	5
ADH 4011	Vinyl to Foam	Top & Trim Adhesive	250	467

As can be seen, the VOC content of the carpet adhesive must be discounted to the 50 g/l SCAQMD Rule 1168 level. Since the carpet is not being utilized in an Architectural application (as defined in rule 1168), the carpet adhesive limit of 150 g/l cannot be used.

As can be seen, the VOC content of the vinyl to foam adhesive must be discounted to the 250 g/l SCAQMD Rule 1168 level.

**BAAQMD Regulation 8 Rule 51 (Adhesive and Sealant Products):**

The only materials that are adhesives in the traditional sense are the Westech HS-MAC-18, HP-MAC-18 and MPEA, the 3M Fastbond and the Keaston Brothers ADH 4011. The others identified as adhesives are actually polyester resins that are subject to Rule 4684.

The table below shows the material ID, its use, the applicable VOC content limit and the actual VOC content.

Material ID	Use	Regulation 8 Rule 51 Category	VOC Content Limit	Actual VOC Content
			g/l less water and exempts	
Westech HS-MAC-18	Carpet Installation	Outdoor Floor Covering Installation	250	80
Westech HP-MAC-18	Carpet Installation	Outdoor Floor Covering Installation	250	80
Westech MPEA	Carpet Installation	Outdoor Floor Covering Installation	250	80
3M Fastbond 100	Foam Bonding	Multi-Purpose Construction	200	5
ADH 4011	Vinyl to Foam	Top & Trim Installation	540	467

As can be seen, this rule requires no discounting.

**SMAQMD Rule 460:**

The only materials that are adhesives in the traditional sense are the Westech HS-MAC-18, HP-MAC-18 and MPEA, the 3M Fastbond and the Keaston Brothers ADH 4011. The others identified as adhesives are actually polyester resins that are subject to Rule 4684.

The table below shows the material ID, its use, the applicable VOC content limit and the actual VOC content.

Material ID	Use	SMAQMD Rule 460 Category	VOC Content Limit	Actual VOC Content
			g/l less water and exempts	
Westech HS-MAC-18	Carpet Installation	Porous Materials	120	80
Westech HP-MAC-18	Carpet Installation	Porous Materials	120	80
Westech MPEA	Carpet Installation	Porous Materials	120	80
3M Fastbond 100	Foam Bonding	All Other Substrates (Section 8-51-302)	250	5
ADH 4011	Vinyl to Foam	Flexible Vinyl Adhesive	250	467

As can be seen, the VOC content of the flexible vinyl adhesive must be discounted to the 250 g/l SMAQMD Rule 460 level

**Summary of Adhesive Emission Factors After Rule Discounting:**

Material	Surplus VOC Content	Reference
Westech HS-MAC-18	50 g/l (0.42 lb/gal)	SCAQMD Rule 1168
Westech HP-MAC-18	50 g/l (0.42 lb/gal)	SCAQMD Rule 1168
Westech MPEA	50 g/l (0.42 lb/gal)	SCAQMD Rule 1168
3M Fastbond 100	5 g/l (0.042 lb/gal)	No Discounting Necessary
ADH 4011	250 g/l (2.1 lb/gal)	SJVAPCD Rule 4653 SCAQMD Rule 1168 SMAQMD Rule 460

## **Solvent Cleaning Rules:**

### **SJVAPCD Rule 4684 (Polyester Resin Operations)**

This rule limits the VOC content of all organic solvents for cleaning operations to 25 g/l (0.21 lb/gal). The facility utilized only Thermaclean Aquawash during the baseline period. That material has a VOC content of 0.007 lb/gal. Therefore, no baseline emission discounting is required.

### **SJVAPCD Rule 4663 (Solvent Storage, Cleaning and Storage)**

The operation was subject to District Rule 4684 (polyester Resin Operations) during the baseline period and was therefore exempt from this rule per section 4.3.1.3. No emissions discounting is necessary.

### **SCAQMD Rule 1171 (Solvent Cleaning Operations)**

Section (c)(1) of this rule limits the VOC content of solvents utilized for cleaning during manufacturing processes to 25 g/l (0.21 lb/gal). The only solvent utilized during the baseline period was Thermaclean Aquawash, which has a VOC content 0.07 lb/gal. Therefore, no period baseline emission discounting is necessary.

### **BAAQMD Regulation 8 Rule 16 (Adhesive and Sealant products):**

Section 8-51-320 of this rule includes work practice requirements that limit evaporative loss emissions but does not include solvent VOC content limits. District Rules already require that these work practices be followed, therefore, no baseline period emission discounting is necessary.

### **SMAQMD Rule 466 (Adhesives and Sealants):**

Section 303.1 of this rule limits the VOC content of solvents utilized for cleaning during manufacturing processes to 70 g/l (0.6 lb/gal). The only solvent utilized during the baseline period was Thermaclean Aquawash, which has a VOC content 0.07 lb/gal. Therefore, no period baseline emission discounting is necessary.

**Emission Limits:****N-3941-1, N-3941-2 & N-3941-3:**

These permits include a combined VOC emission limit of 250 lb/day. The following table shows the days a violation of this limit occurred, the daily emissions that occurred on that day and the excess VOC emissions that occurred on that day.

Date	Emission Quantity	Excess Emissions
4/20/2007	275.71	25.7
4/21/2007	268.2	18.2
4/23/2007	261.7	11.7
4/24/2007	261.4	11.4
4/26/2007	273.6	23.6
4/27/2007	252.7	2.7
4/28/2007	269.8	19.8
Total	----	113.1

**N-3941-4:**

This permit includes a VOC limit of 100 lb/day. The following table shows the days a violation of this limit occurred, the daily emissions that occurred on that day and the excess VOC emissions that occurred on that day.

Date	Emission Quantity	Excess Emissions
4/19/2007	114.7	14.7
4/24/2007	105.6	5.6
4/27/2007	108.2	8.2
Total	----	28.5

**N-3941-5:**

This permit includes a VOC limit of 100 lb/day. Facility records show that this limit was not exceeded during the baseline period.

**Permit Limit Exceedence Discounting:**

	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
2007	---	142	0	0
2008	0	0	0	0
2009	0	---	---	---
Average	0	71	0	0



**F. Timeliness:**

Applications for ATC's authorizing the emission reductions for which ERC's are proposed were received on the same day as the ERC application (March 30, 2010). Therefore, the application was timely.

**VII. Recommendation:**

Issue an Emission Reduction Credit Certificate to Malibu Boats in the following amounts after Authorities to Construct N-3941-1-7, N-3941-2-5, N-3941-3-5 and N-3941-4-5 are converted to Permits to Operate:

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
VOC (lb)	13,753	22,879	14,803	14,093

**VIII. Appendices**

Appendix A: Emission Factor Calculations

Appendix B: ATC's Authorizing the Reductions for which ERC's are Proposed

Appendix C: Draft Emission Reduction Credit Certificate

**Appendix A**  
**Emission Factor Calculations**

**Resins and Gelcoats:**

Emission Factor Equations (Table 2 of Rule 4684):

Production and Tooling Resins:  $0.014(\text{Resin VOC}\%)^{2.275}$   
 Pigmented & Clear Gelcoats:  $0.445(\text{Gelcoat VOC}\%)^{1.675}$

Material	Category	Monomer Content (wt. %)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
Optiplus 040-8094	Tooling Resin (non-atomized)	38.4	$0.014(\text{Resin VOC}\%)^{2.275}$	56.3
Imedge 100BK201	Pigmented Gelcoat	29.8		131.1
Imedge 100RH540	Pigmented Gelcoat	32.0		147.7
Imedge 100YH895	Pigmented Gelcoat	32.3		150.1
SprayCore 1055LS	Tooling Resin (non-atomized)	28	$0.014(\text{Resin VOC}\%)^{2.275}$	27.4
Imedge Barrier Coat 200LK202	Pigmented Gelcoat	30.0	$0.445(\text{Gelcoat VOC}\%)^{1.675}$	132.6
Patch Aid <sup>4</sup>	Pigmented Gelcoat	45		261.5
Valspar 5799A90073	Pigmented Gelcoat	31.7		145.4
Valspar 5799B90020	Pigmented Gelcoat	31.6		144.7
Valspar 5799E90056	Pigmented Gelcoat	31.5		143.9
Valspar 5799L90035	Pigmented Gelcoat	35		171.7
Valspar 5799R90052	Pigmented Gelcoat	31.9		147.0
Eastman 733-2246	Resin (non-atomized)	33.5		$0.014(\text{Resin VOC}\%)^{2.275}$
Polycor 945B023	Tooling Gelcoat (non-atomized)	46.92	$0.445(\text{Gelcoat VOC}\%)^{1.675}$	280.5
Polycor 945GA104	Tooling Gelcoat (non-atomized)	46.5		276.3

<sup>4</sup> As explained in the Surplus Emission section of this document, the monomer content utilized in the emission factor calculation was calculated utilizing the discounted content of 45% by weight.

**Resins and Gelcoats - Continued:**

Material	Category	Monomer Content (wt. %)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
ArmorFlex 953BK162	Pigmented Gelcoat	41.6	0.445(Gelcoat VOC%) <sup>1.675</sup>	229.3
ArmorFlex 953LK160	Pigmented Gelcoat	36.2		181.6
Buffback 954BJ232	Pigmented Gelcoat	41.6		229.3
Buffback 954LJ261	Pigmented Gelcoat	39.6		211.1
ArmorFlex 963LK160	Pigmented Gelcoat	28.6		122.4
ArmorFlex 963LK188	Pigmented Gelcoat	29.1		126.0
ArmorFlex 963RK139	Pigmented Gelcoat	28.7		123.1
ArmorFlex 963RK140	Pigmented Gelcoat	28.8		123.8
ArmorPlus 963WH671	Pigmented Gelcoat	30.2		134.1
ArmorFlex 963XA220	Clear Gelcoat	44.9		260.5
ArmorFlex 963XA221	Clear Gelcoat	44.7		258.6
Polycor 965BK183	Tooling Resin (non-atomized)	38.92		0.014(Resin VOC%) <sup>2.275</sup>
ArmorGuard 967BJ244	Pigmented Gelcoat	31.8	0.445(Gelcoat VOC%) <sup>1.675</sup>	146.2
Armor Guard 967BK150	Pigmented Gelcoat	32.1		148.5
ArmorCote 991AK138	Pigmented Gelcoat	30.8		138.6
ArmorCote 991AK139	Pigmented Gelcoat	32.0		147.7
ArmorCote 991AK140	Pigmented Gelcoat	29.8		131.1
ArmorCote 991BK136	Pigmented Gelcoat	32.5		151.6

**Resins and Gelcoats - Continued:**

Material	Category	Monomer Content (wt. %)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
ArmorCote 991BK139	Pigmented Gelcoat	32.6	0.445(Gelcoat VOC%) <sup>1.675</sup>	152.4
ArmorCote 991GH359	Pigmented Gelcoat	32.75		153.6
ArmorCote 991GH369	Pigmented Gelcoat	32.5		151.6
ArmorCote 991LK123	Pigmented Gelcoat	30.5		136.3
ArmorCote 991LK141	Pigmented Gelcoat	31.7		145.4
ArmorCote 991LK142	Pigmented Gelcoat	31.9		147.0
ArmorCote 991NH788	Pigmented Gelcoat	31.8		146.2
ArmorCote 991NK123	Pigmented Gelcoat	30.4		135.6
ArmorCote 991NK124	Pigmented Gelcoat	30.1		133.3
ArmorCote 991NK125	Pigmented Gelcoat	31.0		140.1
ArmorCote 991NK130	Pigmented Gelcoat	30.0		132.6
ArmorCote 991PK105	Pigmented Gelcoat	31.2		141.6
ArmorCote 991RK111	Pigmented Gelcoat	30.9		139.3
ArmorCote 991RK112	Pigmented Gelcoat	31.1		140.8
ArmorCote 991RK118	Pigmented Gelcoat	30.8		138.6
ArmorCote 991RK124	Pigmented Gelcoat	31.4		143.1
ArmorCote 991WH423	Pigmented Gelcoat	32.9		154.8

**Resins and Gelcoats - Continued:**

Material	Category	Monomer Content (wt. %)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
ArmorCote 991YK125	Pigmented Gelcoat	30.6	0.445(Gelcoat VOC%) <sup>1.675</sup>	137.1
ArmorCote 991YK132	Pigmented Gelcoat	30.6		137.1
Imedge 9EXFB379	Pigmented Gelcoat	29.6		129.7
Imedge 9EXFB385	Pigmented Gelcoat	30.7		137.8
Imedge 9EXFB389	Pigmented Gelcoat	30.5		136.3
Imedge 9EXFB395	Pigmented Gelcoat	31.1		140.8
IPS 300	Resin (non-atomized)	39	0.014(Resin VOC%) <sup>2.275</sup>	58.3
Stypol LHPC-3523	Resin (non-atomized)	31.63		36.2
Stypol LHPC-4121	Resin (non-atomized)	31.6		36.1
Stypol LHPC-4121	Resin (non-atomized)	31.6		36.1
Stypol LSPA-2201	Resin (non-atomized)	32.6		38.8
EZBOND 5787W00077	Resin (non-atomized)	30		32.1
Stypol LSPK-2221	Resin (non-atomized)	34.8		45.0
ITW SprayCore SC-VELR-4000	Resin (non-atomized)	32		37.2
ArmorStar VSXH-2200	Resin (non-atomized)	34.9		45.3

**Gelcoat & Resin Additives**

Material	VOC Content
Norox MEKP-9 Resin & Gelcoat Catalyst	45% by weight
Surfacing Agent (85-X3) – Gelcoat Additive	95% by weight

Material	Category	Monomer Content (wt%)	Emission Factor Equation	Emission Factor (lb VOC/10 <sup>3</sup> lb)
Patch Aid Reducer (5788C90279)	Resin (non-atomized)	55.84	0.014(Resin VOC%) <sup>2.275</sup>	132.0
Patch Aid Booster/reducer (5788C90008)	Resin (non-atomized)	60		155.4

**Mold Materials:**

Material	VOC Content
Zyvax Mold Sealer GP	90% by wt
Zyvax Surface Cleaner	90% by wt
Flex-Z Mold Release	90% by wt

**General Use Solvents:**

Material	VOC Content (lb/gal)
Thermaclean Aquawash	0.07

**Adhesives:**

The actual VOC content of the ADH-4011 is 467.8 g/l (3.9 lb/gal). However, to ensure that the reductions generated by its reduced use are surplus, as required by Rule 2301, the VOC content that will be used in the reduction calculations will be 250 g/l (2.1 lb/gal). Refer to section VI.E of this document for a discussion.

The actual VOC content of the Westech materials is 80 g/l. However, to ensure that the reductions generated by its reduced use are surplus, as required by Rule 2301, the VOC content that will be used in the reduction calculations will be 50 g/l (0.42 lb/gal). Refer to section VI.E of this document for a discussion.

Material	VOC Content
3M Fastbond 100	5 g/l (0.04 lb/gal)
Keyston Bros. ADH4011	250 g/l (2.1 lb/gal) <sup>5</sup>
Westech (MB-01)	50 g/l (0.42 lb/gal) <sup>6</sup>

**Waxes:**

Material	VOC Content (lb/gal)
3M Finesse- It-II Wax	17% by weight
3M Marine Ultra Paste Wax	33.8% by weight

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<sup>5</sup> The VOC content of this material was discounted from 467 g/l to 250 g/l as explained in section VI.E of this document.

<sup>6</sup> The VOC content of this material was discounted from 80 g/l to 50 g/l as explained in section VI.E of this document.



**Appendix B**  
**ATC's Authorizing the Reductions for which ERC's are**  
**Proposed**



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** N-3941-1-7

**ISSUANCE DATE:** 02/04/2011

**LEGAL OWNER OR OPERATOR:** MALIBU BOATS LLC  
**MAILING ADDRESS:** ONE MALIBU CT  
MERCED, CA 95340

**LOCATION:** ONE MALIBU COURT  
MERCED, CA

**EQUIPMENT DESCRIPTION:**

GEL COATING OPERATION SERVED BY A SPRAY BOOTH WITH EXHAUST FILTERS. MODIFICATION TO REDUCE THE EMISSION LIMITS SUCH THAT THE FACILITY IS NO LONGER A MAJOR SOURCE.

### CONDITIONS

1. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for a Minor Permit Modification. [District Rule 2520, 5.3.2] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. The particulate matter emissions from the stack of the paint spray booth shall not exceed 0.1 gr/dscf [District Rule 4201]
5. Exhaust fans shall be switched on prior to the start of the gel coat operation. [District Rule 2201]
6. The VOC emissions shall not exceed 15.0 pounds during any one day. [District Rule 2201]
7. The PM10 emissions shall not exceed 0.9 pounds during any one day. [District Rule 2201]
8. The facility-wide VOC emissions shall not exceed any of the following: 925 pounds during the first calendar quarter, 935 pounds during the second calendar quarter, 945 pounds during the third calendar quarter and 945 pounds during the fourth calendar quarter. [District Rule 2201]
9. Only HVLP, electrostatic, airless, or air assisted airless application equipment shall be used, and the application equipment shall be operated in accordance with the manufacturer's recommendations. [District Rule 4684]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

10. Permittee shall demonstrate that HVLP guns manufactured prior to 1/1/96 operate between 0.1 and 10 psig air atomizing pressure, by manufacturer's published technical material or by use of a certified air pressure tip gauge. [District Rule 4684]
11. Only low VOC polyester resins and gel coats shall be used. The monomer content of low VOC resins, except specialty resins, shall not exceed 35% by weight. The monomer content of low VOC pigmented gel coats shall not exceed 45% by weight. The monomer content of low VOC specialty resins and clear gel coats shall not exceed 50% by weight. [District Rule 4684]
12. The VOC content of organic solvents used in cleaning operations shall not exceed 25 g/l (0.21 lb/gal). [District Rule 4684]
13. The operator shall store and dispose of adhesives, sealants, catalysts, thinners, fresh and spent solvents and waste solvent materials such as cloth and paper in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing the contents of the containers or when the containers are empty. [District Rule 4684]
14. Daily records of the type and quantity of all resins, gel coats, fillers, catalysts and cleaning materials (including cleaning solvents) used shall be kept. [District Rule 4684]
15. Records of the VOC content, in weight percent, of all polyester resins, gel coats and filler materials, including the weight percent of non-monomer VOC in the resins and gel coats used or stored at the stationary source shall be kept. [District Rule 4684]
16. Records of the VOC content of all cleaning materials used and stored at the stationary source shall be kept. [District Rule 4684]
17. The facility operator shall calculate and record the facility-wide VOC emissions on a calendar quarter basis. The record shall be updated at least monthly. [District Rules 2201 and 4684]
18. A daily record of the VOC and PM10 emissions from this unit shall be kept. [District Rule 2201]
19. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 4684]



## AUTHORITY TO CONSTRUCT

PERMIT NO: N-3941-2-5

ISSUANCE DATE: 02/04/2011

LEGAL OWNER OR OPERATOR: MALIBU BOATS LLC  
MAILING ADDRESS: ONE MALIBU CT  
MERCED, CA 95340

LOCATION: ONE MALIBU COURT  
MERCED, CA

**EQUIPMENT DESCRIPTION:**

GEL COATING OPERATION SERVED BY A SPRAY BOOTH WITH EXHAUST FILTERS. MODIFICATION TO REDUCE THE EMISSION LIMITS SUCH THAT THE FACILITY IS NO LONGER A MAJOR SOURCE.

### CONDITIONS

1. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for a Minor Permit Modification. [District Rule 2520, 5.3.2] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. The particulate matter emissions from the stack of the paint spray booth shall not exceed 0.1 gr/dscf [District Rule 4201]
5. Exhaust fans shall be switched on prior to the start of the gel coat operation. [District Rule 2201]
6. The VOC emissions shall not exceed 15.0 pounds during any one day. [District Rule 2201]
7. The PM10 emissions shall not exceed 0.9 pounds during any one day. [District Rule 2201]
8. The facility-wide VOC emissions shall not exceed any of the following: 925 pounds during the first calendar quarter, 935 pounds during the second calendar quarter, 945 pounds during the third calendar quarter and 945 pounds during the fourth calendar quarter. [District Rule 2201]
9. Only HVLP, electrostatic, airless, or air assisted airless application equipment shall be used, and the application equipment shall be operated in accordance with the manufacturer's recommendations. [District Rule 4684]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

10. Permittee shall demonstrate that HVLP guns manufactured prior to 1/1/96 operate between 0.1 and 10 psig air atomizing pressure, by manufacturer's published technical material or by use of a certified air pressure tip gauge. [District Rule 4684]
11. Only low VOC polyester resins and gel coats shall be used. The monomer content of low VOC resins, except specialty resins, shall not exceed 35% by weight. The monomer content of low VOC pigmented gel coats shall not exceed 45% by weight. The monomer content of low VOC specialty resins and clear gel coats shall not exceed 50% by weight. [District Rule 4684]
12. The VOC content of organic solvents used in cleaning operations shall not exceed 25 g/l (0.21 lb/gal). [District Rule 4684]
13. The operator shall store and dispose of adhesives, sealants, catalysts, thinners, fresh and spent solvents and waste solvent materials such as cloth and paper in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing the contents of the containers or when the containers are empty. [District Rule 4684]
14. Daily records of the type and quantity of all resins, gel coats, fillers, catalysts and cleaning materials (including cleaning solvents) used shall be kept. [District Rule 4684]
15. Records of the VOC content, in weight percent, of all polyester resins, gel coats and filler materials, including the weight percent of non-monomer VOC in the resins and gel coats used or stored at the stationary source shall be kept. [District Rule 4684]
16. Records of the VOC content of all cleaning materials used and stored at the stationary source shall be kept. [District Rule 4684]
17. The facility operator shall calculate and record the facility-wide VOC emissions on a calendar quarter basis. The record shall be updated at least monthly. [District Rules 2201 and 4684]
18. A daily record of the VOC and PM10 emissions from this unit shall be kept. [District Rule 2201]
19. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 4684]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** N-3941-3-5

**ISSUANCE DATE:** 02/04/2011

**LEGAL OWNER OR OPERATOR:** MALIBU BOATS LLC  
**MAILING ADDRESS:** ONE MALIBU CT  
MERCED, CA 95340

**LOCATION:** ONE MALIBU COURT  
MERCED, CA

**EQUIPMENT DESCRIPTION:**

POLYESTER RESIN AND ADHESIVE APPLICATION OPERATIONS. MODIFICATION TO REDUCE THE EMISSION LIMITS SUCH THAT THE FACILITY IS NO LONGER A MAJOR SOURCE AND TO CONSOLIDATE PERMIT N-9941-5 WITH THIS PERMIT SUCH THAT THE EQUIPMENT DESCRIPTION BECOMES: CHOPPER FLOW COATER TYPE FIBERGLASS AND RESIN APPLICATION OPERATION AND ASSOCIATED ADHESIVE APPLICATION EQUIPMENT AND A HAND LAY-UP TYPE FIBERGLASS AND RESIN OPERATION AND ASSOCIATED ADHESIVE APPLICATION EQUIPMENT.

### CONDITIONS

1. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for a Minor Permit Modification. [District Rule 2520, 5.3.2] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. The VOC emissions from the chopper flow coater type fiberglass and resin application operation and the associated adhesive application operation shall not exceed 15.0 pounds during any one day. [District Rule 2201]
5. The VOC emissions from the hand lay-up type fiberglass and resin application operation and the associated adhesive application operation shall not exceed 15.0 pounds during any one day. [District Rule 2201]
6. The facility-wide VOC emissions shall not exceed any of the following: 925 pounds during the first calendar quarter, 935 pounds during the second calendar quarter, 945 pounds during the third calendar quarter and 945 pounds during the fourth calendar quarter. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

N-3941-3-5 : Feb 4 2011 8:15AM - SCHONHOM : Joint Inspection NOT Required

7. Only low VOC polyester resins and gel coats shall be used. The monomer content of low VOC resins, except specialty resins, shall not exceed 35% by weight. The monomer content of low VOC pigmented gel coats shall not exceed 45% by weight. The monomer content of low VOC specialty resins and clear gel coats shall not exceed 50% by weight. [District Rule 4684]
8. The VOC content of organic solvents used in cleaning operations shall not exceed 25 g/l (0.21 lb/gal). [District Rules 4653 and 4684]
9. The operator shall store and dispose of adhesives, sealants, catalysts, thinners, fresh and spent solvents and waste solvent materials such as cloth and paper in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing material or when the containers are empty. The containers shall be self closing. [District Rules 4653 and 4684]
10. Mixing containers used for VOC containing adhesives and sealants, and process related waste materials shall be kept closed at all times except when depositing or removing materials. [District Rule 4653]
11. The operator shall minimize spills of VOC containing adhesives, sealants, cleaning materials and process related waste materials. [District Rule 4653]
12. VOC containing adhesives, sealants, solvents and process related waste materials shall be transferred from one location to another only in closed containers or pipes. [District Rule 4653]
13. For the adhesives application operation, solvent cleaning shall be conducted utilizing only the following methods: (1) Wipe cleaning, (2) Application from hand held spray bottles from which the solvents are dispensed without a propellant induced force, (3) A non-atomized solvent flow method in which the solvent is collected in a container or a system that is closed except for collection openings, and if necessary, pressure relief openings, (4) Solvent flushing, in which the cleaning solvent is discharged into a container that is closed except for collection openings and, if necessary, pressure relief openings. The discharged solvent must be collected into containers without atomizing it into the open air. The solvent must be flushed through the system by air pressure, hydraulic pressure or by pumping. [District Rule 4653]
14. The operator shall keep records of the VOC content, in grams/liter, of all adhesives and solvents used and stored at the facility. [District Rule 4653]
15. The operator shall keep a copy of the manufacturer's product data sheet or material safety data sheet for each solvent used in adhesives cleaning activities. [District Rule 4653]
16. Daily records of the type and quantity of all resins, gel coats, fillers, catalysts and cleaning materials (including cleaning solvents) used shall be kept. [District Rule 4684]
17. Records of the VOC content, in weight percent, of all polyester resins, gel coats and filler materials, including the weight percent of non-monomer VOC in the resins and gel coats used or stored at the stationary source shall be kept. [District Rule 4684]
18. The operator shall maintain a current list of the solvents that are being used in solvent cleaning activities that support the adhesives application operations. The list shall include (1) the product ID and the manufacturer's name, (2) the VOC content of the solvent, in grams/liter or pounds/gallon, (3) the mix ratio and the VOC content of the solvent if the solvent is a mixture blended by the operator, (4) The Rule 4653, table 6 category for each solvent. [District Rule 4653]
19. Records of the VOC content of all cleaning materials used in the polyester resin operations and stored at the stationary source shall be kept. [District Rule 4684]
20. The facility operator shall calculate and record the facility-wide VOC emissions on a calendar quarter basis. The record shall be updated at least monthly. [District Rules 2201 and 4684]
21. A daily record of the VOC emissions from these units shall be kept. Separate records shall be kept for the chopper flow coating operation and its associated adhesives application operation and for the hand lay-up operation and its associated adhesives application operation. [District Rule 2201]
22. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 4684]



# AUTHORITY TO CONSTRUCT

**PERMIT NO:** N-3941-4-5

**ISSUANCE DATE:** 02/04/2011

**LEGAL OWNER OR OPERATOR:** MALIBU BOATS LLC  
**MAILING ADDRESS:** ONE MALIBU CT  
MERCED, CA 95340

**LOCATION:** ONE MALIBU COURT  
MERCED, CA

**EQUIPMENT DESCRIPTION:**

GEL COAT OPERATION SERVED BY A SPRAY BOOTH AND A GEL COAT GUN. MODIFICATION TO REDUCE THE EMISSION LIMITS SUCH THAT THE FACILITY IS NO LONGER A MAJOR SOURCE.

## CONDITIONS

1. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for a Minor Permit Modification. [District Rule 2520, 5.3.2] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. The particulate matter emissions from the stack of the paint spray booth shall not exceed 0.1 gr/dscf [District Rule 4201]
5. Exhaust fans shall be switched on prior to the start of the gel coat operation. [District Rule 2201]
6. The VOC emissions shall not exceed 15.0 pounds during any one day. [District Rule 2201]
7. The PM10 emissions shall not exceed 0.9 pounds during any one day. [District Rule 2201]
8. The facility-wide VOC emissions shall not exceed any of the following: 925 pounds during the first calendar quarter, 935 pounds during the second calendar quarter, 945 pounds during the third calendar quarter and 945 pounds during the fourth calendar quarter. [District Rule 2201]
9. Only HVLP, electrostatic, airless, or air assisted airless application equipment shall be used, and the application equipment shall be operated in accordance with the manufacturer's recommendations. [District Rule 4684]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



10. Permittee shall demonstrate that HVLP guns manufactured prior to 1/1/96 operate between 0.1 and 10 psig air atomizing pressure, by manufacturer's published technical material or by use of a certified air pressure tip gauge. [District Rule 4684]
11. Only low VOC polyester resins and gel coats shall be used. The monomer content of low VOC resins, except speciality resins, shall not exceed 35% by weight. The monomer content of low VOC pigmented gel coats shall not exceed 45% by weight. The monomer content of low VOC speciality resins and clear gel coats shall not exceed 50% by weight. [District Rule 4684]
12. The VOC content of organic solvents used in cleaning operations shall not exceed 25 g/l (0.21 lb/gal). [District Rule 4684]
13. The operator shall store and dispose of adhesives, sealants, catalysts, thinners, fresh and spent solvents and waste solvent materials such as cloth and paper in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing the contents of the containers or when the containers are empty. [District Rule 4684]
14. Daily records of the type and quantity of all resins, gel coats, fillers, catalysts and cleaning materials (including cleaning solvents) used shall be kept. [District Rule 4684]
15. Records of the VOC content, in weight percent, of all polyester resins, gel coats and filler materials, including the weight percent of non-monomer VOC in the resins and gel coats used or stored at the stationary source shall be kept. [District Rule 4684]
16. Records of the VOC content of all cleaning materials used and stored at the stationary source shall be kept. [District Rule 4684]
17. The facility operator shall calculate and record the facility-wide VOC emissions on a calendar quarter basis. The record shall be updated at least monthly. [District Rules 2201 and 4684]
18. A daily record of the VOC and PM10 emissions from this unit shall be kept. [District Rule 2201]
19. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 4684]

**Appendix C**  
**Draft Emission Reduction Credit Certificate**

San Joaquin Valley  
Air Pollution Control District

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718

**Emission Reduction Credit Certificate  
N-942-1**

ISSUED TO: MALIBU BOATS LLC  
ISSUED DATE: <DRAFT>  
LOCATION OF REDUCTION: ONE MALIBU COURT  
MERCED, CA

**For VOC Reduction In The Amount Of:**

Quarter 1	Quarter 2	Quarter 3	Quarter 4
13,753 lbs	22,879 lbs	14,803 lbs	14,093 lbs

Conditions Attached

**Method Of Reduction**

- Shutdown of Entire Stationary Source  
 Shutdown of Emissions Units  
 Other

Reduction in quantity of use of VOC containing materials. Prior to the issuance of this certificate, Authorities to Construct N-3941-1-7, N-3941-2-5, N-3941-3-5 and N-3941-4-5 shall be converted to Permits to Operate.

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

**DRAFT**

David Warner, Director of Permit Services



September 17, 2010

COPY

Jack Springer  
Malibu Boats LLC  
One Malibu Court  
Merced, CA 95340

**Re: Notice of Receipt of Complete Application - Emission Reduction Credits Banking**  
**Project Number: N-1101305**

Dear Mr. Springer:

The District has completed a preliminary review of your application for Emission Reduction Credit (ERC) Banking resulting from reduced boat manufacturing material usage at One Malibu Court in Merced.

Based on this preliminary review, the application appears to be complete. However, during processing of your application, the District may request additional information to clarify, correct, or otherwise supplement, the information on file.

Pursuant to District Rule 3060, your application may be subject to an hourly Engineering Evaluation Fee. If the applicable fees exceed the submitted application filing fee, the District will notify you at the conclusion of our review.

Thank you for your cooperation. Should you have any questions, please contact Mr. Mark Schonhoff at (209) 557-6448.

Sincerely,

David Warner  
Director of Permit Services

Rupi Gill  
Permit Services Manager

DW: mjs

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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<b>Mallbu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>April 2007</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
May 2006	4.06	47.96	3.84	46.67	3.27	39.79
June 2006	5.24	49.67	5.06	48.26	4.36	41.37
July 2006	3.42	50.50	3.29	48.96	2.74	42.00
August 2006	4.61	50.27	4.38	48.60	3.90	41.90
September 2006	4.38	50.52	4.12	48.64	3.55	41.93
October 2006	5.02	52.05	4.84	50.09	4.07	43.33
November 2006	5.17	53.77	4.94	51.58	4.30	44.46
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **April 2007**

✓ 1055 Tooling Resin (1055)	Usage (gal):	527.6	VOC Content (wt%):	0.300	VOCs (lbs):	176.5
	Usage (lbs):	5,500.0	HAP Content (wt%):	0.300	HAPs (lbs):	176.5
			Density (lb/gal):	10.43		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	30.00%	0.032	176.5		
✓ 953BK162 Black Gelcoat (953BK162)	Usage (gal):	672.1	VOC Content (wt%):	0.416	VOCs (lbs):	1,348.0
	Usage (lbs):	6,351.0	HAP Content (wt%):	0.416	HAPs (lbs):	1,348.0
			Density (lb/gal):	9.45		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	9.05%	0.068	428.7		
100-42-5	Styrene	32.53%	0.145	919.3		
✓ 953LK160 Dark Blue Gelcoat (953LK160)	Usage (gal):	146.3	VOC Content (wt%):	0.362	VOCs (lbs):	270.7
	Usage (lbs):	1,430.0	HAP Content (wt%):	0.362	HAPs (lbs):	270.7
			Density (lb/gal):	9.77		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	8.86%	0.068	96.5		
100-42-5	Styrene	27.37%	0.122	174.1		
✓ 963LK188 Midnight Blue Gelcoat (963LK188)	Usage (gal):	49.3	VOC Content (wt%):	0.291	VOCs (lbs):	77.8
	Usage (lbs):	524.0	HAP Content (wt%):	0.291	HAPs (lbs):	77.8
			Density (lb/gal):	10.63		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.88%	0.045	23.6		
100-42-5	Styrene	23.24%	0.103	54.2		
✓ 963RK139 Rueben Gelcoat (963RK139)	Usage (gal):	48.6	VOC Content (wt%):	0.290	VOCs (lbs):	76.0
	Usage (lbs):	514.0	HAP Content (wt%):	0.290	HAPs (lbs):	76.0
			Density (lb/gal):	10.57		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.88%	0.045	23.1		
100-42-5	Styrene	23.11%	0.103	52.9		
✓ 963RK140 Regal Gelcoat (963RK140)	Usage (gal):	157.5	VOC Content (wt%):	0.288	VOCs (lbs):	247.4
	Usage (lbs):	1,671.0	HAP Content (wt%):	0.288	HAPs (lbs):	247.4
			Density (lb/gal):	10.61		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.62%	0.045	75.2		
100-42-5	Styrene	23.16%	0.103	172.2		

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **April 2007**

<b>963XA220</b>	Usage (gal): <b>36.4</b>	VOC Content (wt%): <b>0.449</b>	VOCs (lbs): <b>80.2</b>
Armorflex Marine Clear Gelcoat (963XA220)	Usage (lbs): <b>320.0</b>	HAP Content (wt%): <b>0.449</b>	HAPs (lbs): <b>80.2</b>
		Density (lb/gal): <b>8.79</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	10.25%	0.083
100-42-5	Styrene	34.63%	0.168
			HAP/TAP Lbs
			<b>26.4</b>
			<b>53.8</b>
<b>991GH359</b>	Usage (gal): <b>10.0</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>16.9</b>
Polo Green Gelcoat (991GH359)	Usage (lbs): <b>102.0</b>	HAP Content (wt%): <b>0.328</b>	HAPs (lbs): <b>16.9</b>
		Density (lb/gal): <b>10.24</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.54%	0.045
100-42-5	Styrene	27.21%	0.121
			HAP/TAP Lbs
			<b>4.6</b>
			<b>12.3</b>
<b>991NH788</b>	Usage (gal): <b>39.8</b>	VOC Content (wt%): <b>0.318</b>	VOCs (lbs): <b>69.2</b>
Brown Gelcoat (991NH788)	Usage (lbs): <b>416.0</b>	HAP Content (wt%): <b>0.318</b>	HAPs (lbs): <b>69.2</b>
		Density (lb/gal): <b>10.45</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.23%	0.053
100-42-5	Styrene	25.60%	0.114
			HAP/TAP Lbs
			<b>21.8</b>
			<b>47.4</b>
<b>FB100</b>	Usage (gal): <b>100.0</b>	VOC Content (wt%): <b>0.012</b>	VOCs (lbs): <b>10.8</b>
Fastbond Foam Adhesive 100, Lavender	Usage (lbs): <b>917.4</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			<b>0.0</b>
<b>IPSAadh</b>	Usage (gal): <b>600.4</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>375.3</b>
IPS Adhesive & Activator	Usage (lbs): <b>5,442.7</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>374.9</b>
		Density (lb/gal): <b>9.07</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	60.00%	0.069
			HAP/TAP Lbs
			<b>374.9</b>
<b>LSPK-2221</b>	Usage (gal): <b>1,193.4</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>406.6</b>
Polyester Resin (LSPK-2221)	Usage (lbs): <b>10,560.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>406.6</b>
		Density (lb/gal): <b>8.85</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	34.83%	0.039
			HAP/TAP Lbs
			<b>406.6</b>
<b>MBA01</b>	Usage (gal): <b>850.1</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>566.2</b>
Westech HS-MAC18, HP-MAC18 & MPEA	Usage (lbs): <b>5,671.7</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			<b>0.0</b>

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **April 2007**

✓ <b>MBG01</b> Black Barrier Gelcoat (967BJ244)	Usage (gal):	<b>528.8</b>	VOC Content (wt%):	<b>0.358</b>	VOCs (lbs):	<b>865.7</b>
	Usage (lbs):	<b>5,050.0</b>	HAP Content (wt%):	<b>0.318</b>	HAPs (lbs):	<b>714.1</b>
			Density (lb/gal):	<b>9.55</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	31.77%	0.141	714.1		
✓ <b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	Usage (gal):	<b>39.3</b>	VOC Content (wt%):	<b>0.308</b>	VOCs (lbs):	<b>67.8</b>
	Usage (lbs):	<b>418.0</b>	HAP Content (wt%):	<b>0.308</b>	HAPs (lbs):	<b>67.8</b>
			Density (lb/gal):	<b>10.63</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.17%	0.053	21.9		
100-42-5	Styrene	24.66%	0.110	45.9		
✓ <b>MBG02a</b> Armorcote Marble Gelcoat (991AK139)	Usage (gal):	<b>9.6</b>	VOC Content (wt%):	<b>0.320</b>	VOCs (lbs):	<b>16.7</b>
	Usage (lbs):	<b>100.0</b>	HAP Content (wt%):	<b>0.320</b>	HAPs (lbs):	<b>16.7</b>
			Density (lb/gal):	<b>10.44</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.28%	0.053	5.2		
100-42-5	Styrene	25.73%	0.115	11.4		
✓ <b>MBG02b</b> Armorcote Charcoal Gelcoat (991AK140)	Usage (gal):	<b>15.0</b>	VOC Content (wt%):	<b>0.328</b>	VOCs (lbs):	<b>26.4</b>
	Usage (lbs):	<b>155.0</b>	HAP Content (wt%):	<b>0.328</b>	HAPs (lbs):	<b>26.4</b>
			Density (lb/gal):	<b>10.30</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.33%	0.053	8.1		
100-42-5	Styrene	26.43%	0.118	18.2		
✓ <b>MBG03</b> Armorcote Black Gelcoat (991BK139)	Usage (gal):	<b>8.9</b>	VOC Content (wt%):	<b>0.326</b>	VOCs (lbs):	<b>16.6</b>
	Usage (lbs):	<b>93.0</b>	HAP Content (wt%):	<b>0.326</b>	HAPs (lbs):	<b>16.6</b>
			Density (lb/gal):	<b>10.45</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	9.32%	0.075	7.0		
100-42-5	Styrene	23.29%	0.104	9.6		
✓ <b>MBG04</b> Armorcote Vapor Blue Gelcoat (991LK123)	Usage (gal):	<b>19.1</b>	VOC Content (wt%):	<b>0.305</b>	VOCs (lbs):	<b>30.7</b>
	Usage (lbs):	<b>199.0</b>	HAP Content (wt%):	<b>0.305</b>	HAPs (lbs):	<b>30.7</b>
			Density (lb/gal):	<b>10.43</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.98%	0.045	9.0		
100-42-5	Styrene	24.56%	0.109	21.8		
✓ <b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	Usage (gal):	<b>79.2</b>	VOC Content (wt%):	<b>0.304</b>	VOCs (lbs):	<b>135.6</b>
	Usage (lbs):	<b>842.0</b>	HAP Content (wt%):	<b>0.304</b>	HAPs (lbs):	<b>135.6</b>
			Density (lb/gal):	<b>10.63</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.07%	0.053	44.2		
100-42-5	Styrene	24.37%	0.109	91.4		

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**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **April 2007**

<b>MBG06</b>	Usage (gal): <b>893.6</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>1,674.5</b>
Armorcote White Gelcoat (991WH423)	Usage (lbs): <b>9,860.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>1,674.2</b>
		Density (lb/gal): <b>11.03</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.50%	0.053
100-42-5	Styrene	26.36%	0.117
			HAP/TAP Lbs
			<b>517.6</b>
			<b>1,156.6</b>
<b>MBG07</b>	Usage (gal): <b>67.7</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>113.1</b>
Armorcote CA Yellow Gelcoat (991YK125)	Usage (lbs): <b>701.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>113.1</b>
		Density (lb/gal): <b>10.35</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.46%	0.109
			HAP/TAP Lbs
			<b>36.8</b>
			<b>76.3</b>
<b>MBG07a</b>	Usage (gal): <b>44.6</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>72.1</b>
Armorcote Orange Gelcoat (991YK132)	Usage (lbs): <b>461.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>72.1</b>
		Density (lb/gal): <b>10.33</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.58%	0.045
100-42-5	Styrene	25.03%	0.111
			HAP/TAP Lbs
			<b>20.7</b>
			<b>51.3</b>
<b>MBM01</b>	Usage (gal): <b>300.0</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>102.4</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>2,752.0</b>	HAP Content (wt%): <b>0.450</b>	HAPs (lbs): <b>102.4</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
78-93-3	Methyl Ethyl Ketone	2.00%	0.020
			HAP/TAP Lbs
			<b>47.3</b>
			<b>55.0</b>
<b>MBM02</b>	Usage (gal): <b>21.2</b>	VOC Content (wt%): <b>0.008</b>	VOCs (lbs): <b>1.5</b>
Aquawash (095-0040)	Usage (lbs): <b>180.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>8.51</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			<b>0.0</b>
<b>MBM03</b>	Usage (gal): <b>1.9</b>	VOC Content (wt%): <b>0.575</b>	VOCs (lbs): <b>1.8</b>
Patchaid (970XJ037)	Usage (lbs): <b>16.0</b>	HAP Content (wt%): <b>0.575</b>	HAPs (lbs): <b>1.8</b>
		Density (lb/gal): <b>8.57</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	57.48%	0.112
			HAP/TAP Lbs
			<b>1.8</b>
<b>MBP01</b>	Usage (gal): <b>184.5</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>52.9</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>1,400.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>52.9</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs
			<b>52.9</b>

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **April 2007**

<b>MBR02</b> Resin (LHPC3523)	Usage (gal): <b>4,411.2</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,432.8</b>
	Usage (lbs): <b>41,020.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,386.5</b>
		Density (lb/gal): <b>9.30</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 31.62%	E-Factor 0.034
			HAP/TAP Lbs <b>1,386.5</b>

<b>MBR02a</b> Resin (LHPC4121)	Usage (gal): <b>8,443.8</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>2,741.9</b>
	Usage (lbs): <b>78,520.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>2,654.0</b>
		Density (lb/gal): <b>9.30</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 31.62%	E-Factor 0.034
			HAP/TAP Lbs <b>2,654.0</b>

<b>VLER-4000</b> VE Resin (VLER-4000)	Usage (gal): <b>565.3</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>169.5</b>
	Usage (lbs): <b>4,950.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>169.5</b>
		Density (lb/gal): <b>8.76</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 32.00%	E-Factor 0.034
			HAP/TAP Lbs <b>169.5</b>

	Month (lbs)	Month (tons)
<b>VOCs:</b>	11,244	5.62
<b>HAPs:</b>	10,378	5.19

**Mallbu Boats Merced Plant: Usage & Emissions**Month of: **April 2007**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	47	0.02
78-93-3	Methyl Ethyl Ketone	55	0.03
80-62-6	Methyl Methacrylate	1,746	0.87
	No reportable HAPs	0	0.00
100-42-5	Styrene	8,531	4.27
	<b>Total</b>	<b>10,378</b>	<b>5.19</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	25,298	0	0	0.00
Total:		25,298		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	20,573	159	3,271	1.64
953LK160	Dark Blue Gelcoat (953LK160)	4,100	159	652	0.33
963LK188	Midnight Blue Gelcoat (963LK188)	1,160	159	184	0.09
963RK139	Rueben Gelcoat (963RK139)	514	159	82	0.04
963RK140	Regal Gelcoat (963RK140)	1,671	159	266	0.13
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,687	159	427	0.21
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	768	159	122	0.06
991NH788	Brown Gelcoat (991NH788)	1,937	159	308	0.15
MBG01	Black Barrier Gelcoat (967BJ244)	82,061	159	13,048	6.52
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,906	159	939	0.47
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,035	159	324	0.16
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,375	159	855	0.43
MBG03	Armorcote Black Gelcoat (991BK139)	1,205	159	192	0.10
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,200	159	350	0.17
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	4,533	159	721	0.36
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	7,114	159	1,131	0.57
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,570	159	1,204	0.60
MBG05a	Armorcote Platinum Gelcoat (991NK124)	3,934	159	626	0.31

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending:</b>	<b>April 2007</b>
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MBG05b	Armorcote Sandstone Gelcoat (991NK125)	2,518	159	400	0.20
MBG05c	Armorcote Suede Gelcoat (991NK130)	259	159	41	0.02
MBG06	Armorcote White Gelcoat (991WH423)	119,014	159	18,923	9.46
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	8,772	159	1,395	0.70
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,889	159	459	0.23
MBG08	Armorcote Ruben Gelcoat (991RK111)	5,322	159	846	0.42
MBG08a	Armorcote Regal Gelcoat (991RK112)	12,681	159	2,016	1.01
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	855	159	136	0.07
MBG08c	Armorcote Pink Gelcoat (991RK124)	809	159	129	0.06
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	53,674	159	8,534	4.27
<b>Total:</b>		<b>363,711</b>		<b>57,830</b>	<b>28.92</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	73,560	46	3,384	1.69
MBR02	Resin (LHPC3523)	534,240	46	24,575	12.29
MBR02a	Resin (LHPC4121)	706,506	46	32,499	16.25
VLER-4000	VE Resin (VLER-4000)	35,250	46	1,622	0.81
<b>Total:</b>		<b>1,349,556</b>		<b>62,080</b>	<b>31.04</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBG0a	Polycor HG Green Tooling (945GA104)	3,552	214	760	0.38
<b>Total:</b>		<b>3,552</b>		<b>760</b>	<b>0.38</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	30,000	54	1,620	0.81
945B023	Polycor Conductive Tooling (945B023)	1,300	54	70	0.04
Total:		31,300		1,690	0.85

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	122,360	61.18

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	25,298	0.000	0.0	0
Total:		25,298			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	20,573	0.416	229.0	4,712
953LK160	Dark Blue Gelcoat (953LK160)	4,100	0.362	181.8	745
963LK188	Midnight Blue Gelcoat (963LK188)	1,160	0.291	126.1	146
963RK139	Rueben Gelcoat (963RK139)	514	0.290	125.2	64
963RK140	Regal Gelcoat (963RK140)	1,671	0.288	123.7	207
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,687	0.449	260.3	700
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	768	0.325	151.7	117
991NH788	Brown Gelcoat (991NH788)	1,937	0.318	146.4	284
MBG01	Black Barrier Gelcoat (967BJ244)	82,061	0.318	146.0	11,978
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,906	0.308	138.8	820
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,035	0.320	147.8	301
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,375	0.328	153.7	826
MBG03	Armorcote Black Gelcoat (991BK139)	1,205	0.326	152.5	184
MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending:**      **April 2007**

MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,200	0.305	136.6	301
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	4,533	0.322	149.4	677
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	7,114	0.319	147.0	1,045
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,570	0.304	135.9	1,029
MBG05a	Armorcote Platinum Gelcoat (991NK124)	3,934	0.302	133.7	526
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	2,518	0.310	140.2	353
MBG05c	Armorcote Suede Gelcoat (991NK130)	259	0.300	132.5	34
MBG06	Armorcote White Gelcoat (991WH423)	119,014	0.329	154.4	18,381
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	8,772	0.306	137.3	1,205
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,889	0.306	137.1	396
MBG08	Armorcote Ruben Gelcoat (991RK111)	5,322	0.309	139.7	743
MBG08a	Armorcote Regal Gelcoat (991RK112)	12,681	0.311	140.5	1,781
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	855	0.308	138.8	119
MBG08c	Armorcote Pink Gelcoat (991RK124)	809	0.314	143.2	116
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	53,674	0.416	229.5	12,317
<b>Total:</b>		<b>363,711</b>			<b>60,412</b>
Weighted Average MACT Model Point Value:		166.1			
Intermediate MACT Model Point Value (lbs):		60,412			



*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	73,560	0.348	45.1	3,317
MBR02	Resin (LHPC3523)	534,240	0.316	36.2	19,332
MBR02a	Resin (LHPC4121)	706,506	0.316	36.2	25,566
VLER-4000	VE Resin (VLER-4000)	35,250	0.320	37.2	1,311
Total:		1,349,556			49,526
Weighted Average MACT Model Point Value:		36.7			
Intermediate MACT Model Point Value (lbs):		49,526			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBG0a	Polycor HG Green Tooling (945GA104)	3,552	0.472	283.7	1,008
Total:		3,552			1,008
Weighted Average MACT Model Point Value:		283.7			
Intermediate MACT Model Point Value (lbs):		1,008			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	30,000	0.300	32.1	963
945B023	Polycor Conductive Tooling (945B023)	1,300	0.469	88.8	115
Total:		31,300			1,079
Weighted Average MACT Model Point Value:		34.5			
Intermediate MACT Model Point Value (lbs):		1,079			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	112,024	56.01

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>May 2007</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
June 2006	5.24	49.67	5.06	48.26	4.36	41.37
July 2006	3.42	50.50	3.29	48.96	2.74	42.00
August 2006	4.61	50.27	4.38	48.60	3.90	41.90
September 2006	4.38	50.52	4.12	48.64	3.55	41.93
October 2006	5.02	52.05	4.84	50.09	4.07	43.33
November 2006	5.17	53.77	4.94	51.58	4.30	44.46
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **May 2007**

<b>1055</b> Tooling Resin (1055)	Usage (gal): <b>200.5</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>67.1</b>
	Usage (lbs): <b>2,090.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>67.1</b>
		Density (lb/gal): <b>10.43</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.032	67.1

<b>945B023</b> Plycor Conductive Tooling (945B023)	Usage (gal): <b>49.6</b>	VOC Content (wt%): <b>0.469</b>	VOCs (lbs): <b>25.9</b>
	Usage (lbs): <b>450.0</b>	HAP Content (wt%): <b>0.469</b>	HAPs (lbs): <b>25.9</b>
		Density (lb/gal): <b>9.07</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	46.92%	0.058	25.9

450

<b>953BK162</b> Black Gelcoat (953BK162)	Usage (gal): <b>468.8</b>	VOC Content (wt%): <b>0.416</b>	VOCs (lbs): <b>940.3</b>
	Usage (lbs): <b>4,430.0</b>	HAP Content (wt%): <b>0.416</b>	HAPs (lbs): <b>940.3</b>
		Density (lb/gal): <b>9.45</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	9.05%	0.068	299.0
100-42-5	Styrene	32.53%	0.145	641.3

6351  
4430  
10781

<b>953LK160</b> Dark Blue Gelcoat (953LK160)	Usage (gal): <b>39.9</b>	VOC Content (wt%): <b>0.362</b>	VOCs (lbs): <b>73.8</b>
	Usage (lbs): <b>390.0</b>	HAP Content (wt%): <b>0.362</b>	HAPs (lbs): <b>73.8</b>
		Density (lb/gal): <b>9.77</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	8.86%	0.068	26.3
100-42-5	Styrene	27.37%	0.122	47.5

<b>963LK188</b> Midnight Blue Gelcoat (963LK188)	Usage (gal): <b>22.7</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>35.8</b>
	Usage (lbs): <b>241.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>35.8</b>
		Density (lb/gal): <b>10.63</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	10.8
100-42-5	Styrene	23.24%	0.103	24.9

<b>963RK139</b> Rueben Gelcoat (963RK139)	Usage (gal): <b>14.3</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>22.3</b>
	Usage (lbs): <b>151.0</b>	HAP Content (wt%): <b>0.290</b>	HAPs (lbs): <b>22.3</b>
		Density (lb/gal): <b>10.57</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	6.8
100-42-5	Styrene	23.11%	0.103	15.5

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>164.4</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>258.3</b>
	Usage (lbs): <b>1,744.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>258.3</b>
		Density (lb/gal): <b>10.61</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	78.5
100-42-5	Styrene	23.16%	0.103	179.8

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **May 2007**

320  
400  

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720

✓ <b>963XA220</b> Armorflex Marine Clear Gelcoat (963XA220)	Usage (gal):	<b>45.5</b>	VOC Content (wt%):	<b>0.449</b>	VOCs (lbs):	<b>100.2</b>
	Usage (lbs):	<b>400.0</b>	HAP Content (wt%):	<b>0.449</b>	HAPs (lbs):	<b>100.2</b>
			Density (lb/gal):	<b>8.79</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	10.25%	0.083	33.0		
100-42-5	Styrene	34.63%	0.168	67.2		
✓ <b>991GH369</b> Brite Green Gelcoat (991GH369)	Usage (gal):	<b>14.5</b>	VOC Content (wt%):	<b>0.325</b>	VOCs (lbs):	<b>24.4</b>
	Usage (lbs):	<b>148.0</b>	HAP Content (wt%):	<b>0.325</b>	HAPs (lbs):	<b>24.4</b>
			Density (lb/gal):	<b>10.22</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.62%	0.045	6.7		
100-42-5	Styrene	26.89%	0.120	17.7		
✓ <b>991NH788</b> Brown Gelcoat (991NH788)	Usage (gal):	<b>38.9</b>	VOC Content (wt%):	<b>0.318</b>	VOCs (lbs):	<b>67.6</b>
	Usage (lbs):	<b>406.0</b>	HAP Content (wt%):	<b>0.318</b>	HAPs (lbs):	<b>67.6</b>
			Density (lb/gal):	<b>10.45</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.23%	0.053	21.3		
100-42-5	Styrene	25.60%	0.114	46.2		
✓ <b>ADH4011</b> Conbond (ADH4011)	Usage (gal):	<b>0.4</b>	VOC Content (wt%):	<b>0.549</b>	VOCs (lbs):	<b>1.5</b>
	Usage (lbs):	<b>2.7</b>	HAP Content (wt%):	<b>0.000</b>	HAPs (lbs):	<b>0.0</b>
			Density (lb/gal):	<b>7.11</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		
✓ <b>FB100</b> Fastbond Foam Adhesive 100, Lavender	Usage (gal):	<b>55.0</b>	VOC Content (wt%):	<b>0.012</b>	VOCs (lbs):	<b>6.0</b>
	Usage (lbs):	<b>504.6</b>	HAP Content (wt%):	<b>0.000</b>	HAPs (lbs):	<b>0.0</b>
			Density (lb/gal):	<b>9.17</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		
✓ <b>IPSAdh</b> IPS Adhesive & Activator	Usage (gal):	<b>378.0</b>	VOC Content (wt%):	<b>0.600</b>	VOCs (lbs):	<b>236.3</b>
	Usage (lbs):	<b>3,426.4</b>	HAP Content (wt%):	<b>0.600</b>	HAPs (lbs):	<b>236.0</b>
			Density (lb/gal):	<b>9.07</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	60.00%	0.069	236.0		
✓ <b>LSPK-2221</b> Polyester Resin (LSPK-2221)	Usage (gal):	<b>1,030.7</b>	VOC Content (wt%):	<b>0.348</b>	VOCs (lbs):	<b>351.1</b>
	Usage (lbs):	<b>9,120.0</b>	HAP Content (wt%):	<b>0.348</b>	HAPs (lbs):	<b>351.1</b>
			Density (lb/gal):	<b>8.85</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	34.83%	0.039	351.1		

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **May 2007**

Product ID	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)
<b>MA300</b> ITW Plexus Adhesive (MA300)	6.6	56.8	0.600	0.600	8.59	2.8	2.8
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		60.00%	0.048	2.8		
<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	850.1	5,671.7	0.100	0.000	6.67	566.2	0.0
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs		0.00%	0.000	0.0		
<b>MBG01</b> Black Barrier Gelcoat (967BJ244)	846.1	8,080.0	0.358	0.318	9.55	1,385.1	1,142.5
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene		31.77%	0.141	1,142.5		
<b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	54.6	581.0	0.308	0.308	10.63	94.2	94.2
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		6.17%	0.053	30.5		
100-42-5	Styrene		24.66%	0.110	63.7		
<b>MBG02a</b> Armorcote Marble Gelcoat (991AK139)	44.0	459.0	0.320	0.320	10.44	76.6	76.7
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		6.28%	0.053	24.1		
100-42-5	Styrene		25.73%	0.115	52.6		
<b>MBG02b</b> Armorcote Charcoal Gelcoat (991AK140)	44.5	458.0	0.328	0.328	10.30	77.9	77.9
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		6.33%	0.053	24.0		
100-42-5	Styrene		26.43%	0.118	53.9		
<b>MBG04</b> Armorcote Vapor Blue Gelcoat (991LK123)	34.1	355.0	0.305	0.305	10.43	54.8	54.8
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		5.98%	0.045	16.0		
100-42-5	Styrene		24.56%	0.109	38.8		

5,050  
8,080  

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13,130

100.0  
459.0  

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559.0

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **May 2007**

<b>MBG04b</b>	Usage (gal): <b>9.9</b>	VOC Content (wt%): <b>0.319</b>	VOCs (lbs): <b>18.7</b>
Armorcote Dark Blue Gelcoat (991LK142)	Usage (lbs): <b>106.0</b>	HAP Content (wt%): <b>0.319</b>	HAPs (lbs): <b>18.7</b>
		Density (lb/gal): <b>10.71</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	9.12%	0.075
100-42-5	Styrene	22.78%	0.101
			HAP/TAP Lbs
			<b>8.0</b>
			<b>10.7</b>
<b>MBG05</b>	Usage (gal): <b>24.4</b>	VOC Content (wt%): <b>0.304</b>	VOCs (lbs): <b>41.7</b>
Armorcote Light Graphite Gelcoat (991NK123)	Usage (lbs): <b>259.0</b>	HAP Content (wt%): <b>0.304</b>	HAPs (lbs): <b>41.7</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.07%	0.053
100-42-5	Styrene	24.37%	0.109
			HAP/TAP Lbs
			<b>13.6</b>
			<b>28.1</b>
<b>MBG06</b>	Usage (gal): <b>841.1</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>1,576.0</b>
Armorcote White Gelcoat (991WH423)	Usage (lbs): <b>9,280.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>1,575.7</b>
		Density (lb/gal): <b>11.03</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.50%	0.053
100-42-5	Styrene	26.36%	0.117
			HAP/TAP Lbs
			<b>487.2</b>
			<b>1,088.5</b>
<b>MBG07</b>	Usage (gal): <b>58.4</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>97.5</b>
Armorcote CA Yellow Gelcoat (991YK125)	Usage (lbs): <b>604.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>97.5</b>
		Density (lb/gal): <b>10.35</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.46%	0.109
			HAP/TAP Lbs
			<b>31.7</b>
			<b>65.7</b>
<b>MBG08</b>	Usage (gal): <b>14.8</b>	VOC Content (wt%): <b>0.309</b>	VOCs (lbs): <b>23.8</b>
Armorcote Ruben Gelcoat (991RK111)	Usage (lbs): <b>151.0</b>	HAP Content (wt%): <b>0.309</b>	HAPs (lbs): <b>23.8</b>
		Density (lb/gal): <b>10.22</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.57%	0.045
100-42-5	Styrene	25.38%	0.113
			HAP/TAP Lbs
			<b>6.8</b>
			<b>17.1</b>
<b>MBG08c</b>	Usage (gal): <b>9.8</b>	VOC Content (wt%): <b>0.314</b>	VOCs (lbs): <b>17.3</b>
Armorcote Pink Gelcoat (991RK124)	Usage (lbs): <b>103.0</b>	HAP Content (wt%): <b>0.314</b>	HAPs (lbs): <b>17.3</b>
		Density (lb/gal): <b>10.52</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	7.12%	0.060
100-42-5	Styrene	24.29%	0.108
			HAP/TAP Lbs
			<b>6.2</b>
			<b>11.1</b>

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **May 2007**

<b>MBM01</b> MEKP9 (Clear & Red)	Usage (gal): <b>436.0</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>148.8</b>
	Usage (lbs): <b>4,000.0</b>	HAP Content (wt%): <b>0.450</b>	HAPs (lbs): <b>148.8</b>
		Density (lb/gal): <b>9.17</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
131-11-3	Dimethyl Phthalate	43.00%	0.017	68.8
78-93-3	Methyl Ethyl Ketone	2.00%	0.020	80.0

<b>MBM02</b> Aquawash (095-0040)	Usage (gal): <b>52.9</b>	VOC Content (wt%): <b>0.008</b>	VOCs (lbs): <b>3.7</b>
	Usage (lbs): <b>450.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>8.51</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

<b>MBM02a</b> Flex-Z 1, 2, 3, 4, 5 & 6	Usage (gal): <b>16.0</b>	VOC Content (wt%): <b>1.000</b>	VOCs (lbs): <b>93.4</b>
	Usage (lbs): <b>93.4</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>5.84</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

<b>MBM03</b> Patchaid (970XJ037)	Usage (gal): <b>0.1</b>	VOC Content (wt%): <b>0.575</b>	VOCs (lbs): <b>0.1</b>
	Usage (lbs): <b>1.0</b>	HAP Content (wt%): <b>0.575</b>	HAPs (lbs): <b>0.1</b>
		Density (lb/gal): <b>8.57</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	57.48%	0.112	0.1

16  
-  
17

<b>MBP01</b> EZ Bond Adhesive (5787W00077)	Usage (gal): <b>184.5</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>52.9</b>
	Usage (lbs): <b>1,400.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>52.9</b>
		Density (lb/gal): <b>7.59</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.038	52.9

<b>MBR02</b> Resin (LHPC3523)	Usage (gal): <b>4,191.8</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,361.6</b>
	Usage (lbs): <b>38,980.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,317.5</b>
		Density (lb/gal): <b>9.30</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	31.62%	0.034	1,317.5

4,020  
38,980  
0  
-----  
80,000

<b>MBR02a</b> Resin (LHPC4121)	Usage (gal): <b>13,257.2</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>4,304.9</b>
	Usage (lbs): <b>123,280.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>4,166.9</b>
		Density (lb/gal): <b>9.30</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	31.62%	0.034	4,166.9

<b>Malibu Boats Merced Plant: Usage and VOC &amp; HAP Emissions</b>	<b>Month of: May 2007</b>
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<b>VLER-4000</b>	<b>Usage (gal): 256.9</b>	<b>VOC Content (wt%): 0.320</b>	<b>VOCs (lbs): 77.0</b>
VE Resin (VLER-4000)	<b>Usage (lbs): 2,250.0</b>	<b>HAP Content (wt%): 0.320</b>	<b>HAPs (lbs): 77.0</b>
		<b>Density (lb/gal): 8.76</b>	



CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.00%	0.034	<b>77.0</b>

	Month (lbs)	Month (tons)
<b>VOCs:</b>	12,285	6.14
<b>HAPs:</b>	11,190	5.59



**Malibu Boats Merced Plant: Usage & Emissions****Month of: May 2007**

<b>CAS No</b>	<b>Chemical</b>	<b>Emissions (lbs)</b>	<b>Emissions (tons)</b>
131-11-3	Dimethyl Phthalate	69	0.03
78-93-3	Methyl Ethyl Ketone	80	0.04
80-62-6	Methyl Methacrylate	1,369	0.68
	No reportable HAPs	0	0.00
100-42-5	Styrene	9,671	4.84
	<b>Total</b>	<b>11,190</b>	<b>5.59</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	30,969	0	0	0.00
Total:		30,969		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	4,490	159	714	0.36
963LK188	Midnight Blue Gelcoat (963LK188)	1,401	159	223	0.11
963RK139	Rueben Gelcoat (963RK139)	665	159	106	0.05
963RK140	Regal Gelcoat (963RK140)	3,415	159	543	0.27
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,087	159	491	0.25
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	916	159	146	0.07
991NH788	Brown Gelcoat (991NH788)	2,343	159	373	0.19
MBG01	Black Barrier Gelcoat (967BJ244)	83,311	159	13,246	6.62
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	6,228	159	990	0.50
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,494	159	397	0.20
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,286	159	840	0.42
MBG03	Armorcote Black Gelcoat (991BK139)	1,106	159	176	0.09
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,555	159	406	0.20
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	4,223	159	671	0.34
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	6,091	159	968	0.48
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,619	159	1,211	0.61
MBG05a	Armorcote Platinum Gelcoat (991NK124)	3,619	159	575	0.29

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>			<b>12 Months Ending:</b>		<b>May 2007</b>
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Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	2,277	159	362	0.18
MBG05c	Armorcote Suede Gelcoat (991NK130)	259	159	41	0.02
MBG06	Armorcote White Gelcoat (991WH423)	119,154	159	18,945	9.47
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	8,377	159	1,332	0.67
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,792	159	444	0.22
MBG08	Armorcote Ruben Gelcoat (991RK111)	5,175	159	823	0.41
MBG08a	Armorcote Regal Gelcoat (991RK112)	11,714	159	1,863	0.93
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	159	129	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	811	159	129	0.06
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	47,795	159	7,599	3.80
<b>Total:</b>		<b>364,592</b>		<b>57,970</b>	<b>28.99</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	82,680	46	3,803	1.90
MBR02	Resin (LHPC3523)	573,220	46	26,368	13.18
MBR02a	Resin (LHPC4121)	750,586	46	34,527	17.26
VLER-4000	VE Resin (VLER-4000)	37,500	46	1,725	0.86
<b>Total:</b>		<b>1,443,986</b>		<b>66,423</b>	<b>33.21</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBG0a	Polycor HG Green Tooling (945GA104)	3,423	214	733	0.37
<b>Total:</b>		<b>3,423</b>		<b>733</b>	<b>0.37</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	32,090	54	1,733	0.87
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		33,840		1,827	0.91

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	126,953	63.48

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	30,969	0.000	0.0	0
Total:		30,969			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	4,490	0.362	181.8	816
963LK188	Midnight Blue Gelcoat (963LK188)	1,401	0.291	126.1	177
963RK139	Rueben Gelcoat (963RK139)	665	0.290	125.2	83
963RK140	Regal Gelcoat (963RK140)	3,415	0.288	123.7	422
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,087	0.449	260.3	804
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	916	0.325	151.7	139
991NH788	Brown Gelcoat (991NH788)	2,343	0.318	146.4	343
MBG01	Black Barrier Gelcoat (967BJ244)	83,311	0.318	146.0	12,160
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	6,228	0.308	138.8	864
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,494	0.320	147.8	369
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,286	0.328	153.7	812
MBG03	Armorcote Black Gelcoat (991BK139)	1,106	0.326	152.5	169
MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>May 2007</b>
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MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,555	0.305	136.6	349
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	4,223	0.322	149.4	631
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	6,091	0.319	147.0	895
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,619	0.304	135.9	1,035
MBG05a	Armorcote Platinum Gelcoat (991NK124)	3,619	0.302	133.7	484
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	2,277	0.310	140.2	319
MBG05c	Armorcote Suede Gelcoat (991NK130)	259	0.300	132.5	34
MBG06	Armorcote White Gelcoat (991WH423)	119,154	0.329	154.4	18,403
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	8,377	0.306	137.3	1,151
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,792	0.306	137.1	383
MBG08	Armorcote Ruben Gelcoat (991RK111)	5,175	0.309	139.7	723
MBG08a	Armorcote Regal Gelcoat (991RK112)	11,714	0.311	140.5	1,645
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	0.308	138.8	113
MBG08c	Armorcote Pink Gelcoat (991RK124)	811	0.314	143.2	116
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	47,795	0.416	229.5	10,968
<b>Total:</b>		<b>364,592</b>			<b>60,440</b>
Weighted Average MACT Model Point Value:		165.8			
Intermediate MACT Model Point Value (lbs):		60,440			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	82,680	0.348	45.1	3,729
MBR02	Resin (LHPC3523)	573,220	0.316	36.2	20,743
MBR02a	Resin (LHPC4121)	750,586	0.316	36.2	27,161
VLER-4000	VE Resin (VLER-4000)	37,500	0.320	37.2	1,394
Total:		1,443,986			53,026
Weighted Average MACT Model Point Value:		36.7			
Intermediate MACT Model Point Value (lbs):		53,026			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBG0a	Polycor HG Green Tooling (945GA104)	3,423	0.472	283.7	971
Total:		3,423			971
Weighted Average MACT Model Point Value:		283.7			
Intermediate MACT Model Point Value (lbs):		971			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	32,090	0.300	32.1	1,030
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		33,840			1,186
Weighted Average MACT Model Point Value:		35.0			
Intermediate MACT Model Point Value (lbs):		1,186			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	115,623	57.81

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>June 2007</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
July 2006	3.42	50.50	3.29	48.96	2.74	42.00
August 2006	4.61	50.27	4.38	48.60	3.90	41.90
September 2006	4.38	50.52	4.12	48.64	3.55	41.93
October 2006	5.02	52.05	4.84	50.09	4.07	43.33
November 2006	5.17	53.77	4.94	51.58	4.30	44.46
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19



5500  
2090

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **June 2007**

<b>1055</b> Tooling Resin (1055)	Usage (gal): <b>239.8</b>	VOC Content (wt%): <b>0.280</b>	VOCs (lbs): <b>74.9</b>	
	Usage (lbs): <b>2,500.0</b>	HAP Content (wt%): <b>0.280</b>	HAPs (lbs): <b>74.9</b>	
		Density (lb/gal): <b>10.43</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.00%	0.001	2.7
100-42-5	Styrene	27.00%	0.029	72.2

Q1 2007  
5500  
2090  
2500  
10,090.6

<b>953LK160</b> Dark Blue Gelcoat (953LK160)	Usage (gal): <b>150.5</b>	VOC Content (wt%): <b>0.362</b>	VOCs (lbs): <b>278.4</b>	
	Usage (lbs): <b>1,471.0</b>	HAP Content (wt%): <b>0.362</b>	HAPs (lbs): <b>278.4</b>	
		Density (lb/gal): <b>9.77</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	8.86%	0.068	99.3
100-42-5	Styrene	27.37%	0.122	179.1

1430  
390  
1471  
3291

<b>963LK188</b> Midnight Blue Gelcoat (963LK188)	Usage (gal): <b>44.4</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>70.0</b>	
	Usage (lbs): <b>472.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>70.0</b>	
		Density (lb/gal): <b>10.63</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	21.2
100-42-5	Styrene	23.24%	0.103	48.8

524  
241  
472  
1237

<b>963RK139</b> Rueben Gelcoat (963RK139)	Usage (gal): <b>86.5</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>138.0</b>	
	Usage (lbs): <b>914.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>135.1</b>	
		Density (lb/gal): <b>10.57</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.57%	0.045	41.1
100-42-5	Styrene	23.11%	0.103	94.0

514  
151  
914  
1579

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>79.3</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>124.5</b>	
	Usage (lbs): <b>841.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>124.5</b>	
		Density (lb/gal): <b>10.61</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	37.8
100-42-5	Styrene	23.16%	0.103	86.7

1671  
1744  
841  
4,256

<b>965BK183</b> Black VE Tooling (965BK183)	Usage (gal): <b>48.8</b>	VOC Content (wt%): <b>0.409</b>	VOCs (lbs): <b>99.2</b>	
	Usage (lbs): <b>450.0</b>	HAP Content (wt%): <b>0.358</b>	HAPs (lbs): <b>80.1</b>	
		Density (lb/gal): <b>9.23</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	35.84%	0.178	80.1

<b>967BK150</b> Black Barrier Coat (967BK150)	Usage (gal): <b>1,248.5</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>2,167.4</b>	
	Usage (lbs): <b>12,120.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>1,733.2</b>	
		Density (lb/gal): <b>9.71</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.14%	0.143	1,733.2

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **June 2007**

<b>991GH369</b> Brite Green Gelcoat (991GH369)	Usage (gal): <b>9.9</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>16.6</b>
	Usage (lbs): <b>101.0</b>	HAP Content (wt%): <b>0.325</b>	HAPs (lbs): <b>16.6</b>
		Density (lb/gal): <b>10.22</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.62%	0.045
100-42-5	Styrene	26.89%	0.120
			HAP/TAP Lbs
			4.5
			12.1

148  
107  
249

<b>991NH788</b> Brown Gelcoat (991NH788)	Usage (gal): <b>24.9</b>	VOC Content (wt%): <b>0.318</b>	VOCs (lbs): <b>43.3</b>
	Usage (lbs): <b>260.0</b>	HAP Content (wt%): <b>0.318</b>	HAPs (lbs): <b>43.3</b>
		Density (lb/gal): <b>10.45</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.23%	0.053
100-42-5	Styrene	25.60%	0.114
			HAP/TAP Lbs
			13.7
			29.6

416  
406  
260  
1,082

<b>991PK105</b> Black Iris Gelcoat (991PK105)	Usage (gal): <b>4.3</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>8.0</b>
	Usage (lbs): <b>45.0</b>	HAP Content (wt%): <b>0.312</b>	HAPs (lbs): <b>7.3</b>
		Density (lb/gal): <b>10.37</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.81%	0.053
100-42-5	Styrene	24.41%	0.109
			HAP/TAP Lbs
			2.4
			4.9

<b>ADH4011</b> Conbond (ADH4011)	Usage (gal): <b>17.7</b>	VOC Content (wt%): <b>0.549</b>	VOCs (lbs): <b>69.1</b>
	Usage (lbs): <b>125.8</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>7.11</b>	
CAS No	Chemical	Weight %	E-Factor
7-11 46 370 3785 X 1.5 (1.54)	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0

0.4 gal  
17.7 gal  
18.1 gal

<b>FB100</b> Fastbond Foam Adhesive 100, Lavender	Usage (gal): <b>15.0</b>	VOC Content (wt%): <b>0.012</b>	VOCs (lbs): <b>1.6</b>
	Usage (lbs): <b>137.6</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0

100 gal  
55 gal  
15 gal  
170 gal

<b>Flex-Z</b> Flex-Z 1, 2, 3, 4, 5 & 6	Usage (gal): <b>12.0</b>	VOC Content (wt%): <b>0.900</b>	VOCs (lbs): <b>63.1</b>
	Usage (lbs): <b>70.1</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>5.84</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0

0  
93.4 lb  
70.1 lb  
163.5 lb

<b>IPSAth</b> IPS Adhesive & Activator	Usage (gal): <b>193.8</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>121.1</b>
	Usage (lbs): <b>1,756.5</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>121.0</b>
		Density (lb/gal): <b>9.07</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	60.00%	0.069
			HAP/TAP Lbs
			121.0

600.4  
378.0  
193.8  
1172.2

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **June 2007**

Product ID	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)	HAP/TAP Lbs
<b>LSPK-2221</b> Polyester Resin (LSPK-2221)	1,084.9	9,600.0	0.348	0.348	8.85	369.6	369.6	
CAS No: 100-42-5	Chemical: Styrene	Weight %: 34.83%	E-Factor: 0.039	HAP/TAP Lbs: 369.6				
								10,560 9,120 9,600 <u>29,280</u>
<b>MA300</b> ITW Plexus Adhesive (MA300)	4.5	39.0	0.600	0.600	8.59	1.9	1.9	
CAS No: 80-62-6	Chemical: Methyl Methacrylate	Weight %: 60.00%	E-Factor: 0.048	HAP/TAP Lbs: 1.9				
								6.6 gal 4.5 gal <u>11.1 gal</u>
<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	485.8	3,241.0	0.100	0.000	6.67	323.6	0.0	
CAS No	Chemical: No reportable HAPs	Weight %: 0.00%	E-Factor: 0.000	HAP/TAP Lbs: 0.0				
								850.1 gal 850.1 gal 485.8 <u>2,186 gal</u>
<b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	58.9	626.0	0.308	0.308	10.63	101.5	101.5	
CAS No: 80-62-6, 100-42-5	Chemical: Methyl Methacrylate, Styrene	Weight %: 6.17%, 24.66%	E-Factor: 0.053, 0.110	HAP/TAP Lbs: 32.9, 68.7				
								418 581 626 <u>1,625</u>
<b>MBG02b</b> Armorcote Charcoal Gelcoat (991AK140)	28.9	298.0	0.328	0.328	10.30	50.7	50.7	
CAS No: 80-62-6, 100-42-5	Chemical: Methyl Methacrylate, Styrene	Weight %: 6.33%, 26.43%	E-Factor: 0.053, 0.118	HAP/TAP Lbs: 15.6, 35.0				
								155.0 458.0 298.0 <u>911.0</u>
<b>MBG04</b> Armorcote Vapor Blue Gelcoat (991LK123)	15.0	156.0	0.305	0.305	10.43	24.1	24.1	
CAS No: 80-62-6, 100-42-5	Chemical: Methyl Methacrylate, Styrene	Weight %: 5.98%, 24.56%	E-Factor: 0.045, 0.109	HAP/TAP Lbs: 7.0, 17.1				
								199.0 355.0 156.0 <u>710.0</u>
<b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	24.9	265.0	0.304	0.304	10.63	42.7	42.7	
CAS No: 80-62-6, 100-42-5	Chemical: Methyl Methacrylate, Styrene	Weight %: 6.07%, 24.37%	E-Factor: 0.053, 0.109	HAP/TAP Lbs: 13.9, 28.8				
								842 259 265 <u>4366</u>

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **June 2007**

<b>MBG05a</b>	Usage (gal): <b>9.7</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>16.6</b>
Armorcote Platinum Gelcoat (991NK124)	Usage (lbs): <b>104.0</b>	HAP Content (wt%): <b>0.302</b>	HAPs (lbs): <b>16.6</b>
		Density (lb/gal): <b>10.73</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.10%	0.053
100-42-5	Styrene	24.05%	0.107
			HAP/TAP Lbs
			5.5
			11.1
<b>MBG06</b>	Usage (gal): <b>788.5</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>1,477.5</b>
Armorcote White Gelcoat (991WH423)	Usage (lbs): <b>8,700.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>1,477.3</b>
		Density (lb/gal): <b>11.03</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.50%	0.053
100-42-5	Styrene	26.36%	0.117
			HAP/TAP Lbs
			456.8
			1,020.5
<b>MBG07</b>	Usage (gal): <b>34.6</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>57.8</b>
Armorcote CA Yellow Gelcoat (991YK125)	Usage (lbs): <b>358.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>57.8</b>
		Density (lb/gal): <b>10.35</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.46%	0.109
			HAP/TAP Lbs
			18.8
			39.0
<b>MBG07a</b>	Usage (gal): <b>29.6</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>47.9</b>
Armorcote Orange Gelcoat (991YK132)	Usage (lbs): <b>306.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>47.9</b>
		Density (lb/gal): <b>10.33</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.58%	0.045
100-42-5	Styrene	25.03%	0.111
			HAP/TAP Lbs
			13.8
			34.1
<b>MBM01</b>	Usage (gal): <b>242.4</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>82.7</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>2,224.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>38.3</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
			HAP/TAP Lbs
			38.3
<b>MBM02</b>	Usage (gal): <b>20.7</b>	VOC Content (wt%): <b>0.008</b>	VOCs (lbs): <b>1.4</b>
Aquawash (095-0040)	Usage (lbs): <b>176.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>8.51</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0
<b>MBP01</b>	Usage (gal): <b>184.5</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>52.9</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>1,400.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>52.9</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs
			52.9

9860  
9280  
8700  
27,840

701  
604  
358  
1,663

461  
306  
767

2752  
4000  
2224  
8976

21.2 gal  
52.9 gal  
20.7 gal  
94.8 gal

184.5 gal  
184.5 gal  
184.5 gal  
553.5

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **June 2007**

<b>MBR02a</b>	Usage (gal): <b>8,635.2</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>2,804.1</b>
Resin (LHPC4121)	Usage (lbs): <b>80,300.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>2,714.1</b>
		Density (lb/gal): <b>9.30</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	31.62%	0.034
			HAP/TAP Lbs
			2,714.1

<b>VLER-4000</b>	Usage (gal): <b>256.9</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>77.0</b>
VE Resin (VLER-4000)	Usage (lbs): <b>2,250.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>77.0</b>
		Density (lb/gal): <b>8.76</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	32.00%	0.034
			HAP/TAP Lbs
			77.0

78,520  
123,280  
80,300  
282,100

4950  
2250  
2250

Month (lbs) Month (tons) 9,450

<b>VOCs:</b>	8,807	4.40
<b>HAPs:</b>	7,757	3.88

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **June 2007**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	38	0.02
80-62-6	Methyl Methacrylate	910	0.45
	No reportable HAPs	0	0.00
100-42-5	Styrene	6,809	3.40
	<b>Total</b>	<b>7,757</b>	<b>3.88</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	34,210	0	0	0.00
Total:		34,210		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	5,961	159	948	0.47
963LK188	Midnight Blue Gelcoat (963LK188)	1,873	159	298	0.15
963RK139	Rueben Gelcoat (963RK139)	1,579	159	251	0.13
963RK140	Regal Gelcoat (963RK140)	4,256	159	677	0.34
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,087	159	491	0.25
967BK150	Black Barrier Coat (967BK150)	12,120	159	1,927	0.96
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,017	159	162	0.08
991NH788	Brown Gelcoat (991NH788)	2,603	159	414	0.21
991PK105	Black Iris Gelcoat (991PK105)	45	159	7	0.00
MBG01	Black Barrier Gelcoat (967BJ244)	75,853	159	12,061	6.03
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	6,182	159	983	0.49
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,494	159	397	0.20
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,028	159	799	0.40
MBG03	Armorcote Black Gelcoat (991BK139)	922	159	147	0.07
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,509	159	399	0.20
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	3,567	159	567	0.28
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	5,237	159	833	0.42

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending: June 2007</b>	
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MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,208	159	1,146	0.57
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,883	159	458	0.23
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	159	256	0.13
MBG05c	Armorcote Suede Gelcoat (991NK130)	100	159	16	0.01
MBG06	Armorcote White Gelcoat (991WH423)	118,574	159	18,853	9.43
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,522	159	1,196	0.60
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,592	159	412	0.21
MBG08	Armorcote Ruben Gelcoat (991RK111)	4,254	159	676	0.34
MBG08a	Armorcote Regal Gelcoat (991RK112)	10,444	159	1,661	0.83
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	159	129	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	707	159	112	0.06
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	41,400	159	6,583	3.29
<b>Total:</b>		<b>359,016</b>		<b>57,084</b>	<b>28.54</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	92,280	46	4,245	2.12
MBR02	Resin (LHPC3523)	573,220	46	26,368	13.18
MBR02a	Resin (LHPC4121)	707,260	46	32,534	16.27
VLER-4000	VE Resin (VLER-4000)	39,750	46	1,829	0.91
<b>Total:</b>		<b>1,412,510</b>		<b>64,975</b>	<b>32.49</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	450	214	96	0.05
MBG0a	Polycor HG Green Tooling (945GA104)	3,215	214	688	0.34



Total:	3,665	784	0.39
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*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	34,590	54	1,868	0.93
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		36,340		1,962	0.98

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	124,806	62.40

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	34,210	0.000	0.0	0
Total:		34,210			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	5,961	0.362	181.8	1,084
963LK188	Midnight Blue Gelcoat (963LK188)	1,873	0.291	126.1	236
963RK139	Rueben Gelcoat (963RK139)	1,579	0.287	123.0	194
963RK140	Regal Gelcoat (963RK140)	4,256	0.288	123.7	526
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,087	0.449	260.3	804
967BK150	Black Barrier Coat (967BK150)	12,120	0.321	148.8	1,803
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	1,017	0.325	151.7	154
991NH788	Brown Gelcoat (991NH788)	2,603	0.318	146.4	381
991PK105	Black Iris Gelcoat (991PK105)	45	0.312	141.8	6
MBG01	Black Barrier Gelcoat (967BJ244)	75,853	0.318	146.0	11,072
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	6,182	0.308	138.8	858
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,494	0.320	147.8	369
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,028	0.328	153.7	773
MBG03	Armorcote Black Gelcoat (991BK139)	922	0.326	152.5	141

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>June 2007</b>
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MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,509	0.305	136.6	343
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	3,567	0.322	149.4	533
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	5,237	0.319	147.0	770
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,208	0.304	135.9	979
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,883	0.302	133.7	385
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	0.310	140.2	226
MBG05c	Armorcote Suede Gelcoat (991NK130)	100	0.300	132.5	13
MBG06	Armorcote White Gelcoat (991WH423)	118,574	0.329	154.4	18,313
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,522	0.306	137.3	1,033
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,592	0.306	137.1	355
MBG08	Armorcote Ruben Gelcoat (991RK111)	4,254	0.309	139.7	594
MBG08a	Armorcote Regal Gelcoat (991RK112)	10,444	0.311	140.5	1,467
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	0.308	138.8	113
MBG08c	Armorcote Pink Gelcoat (991RK124)	707	0.314	143.2	101
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	41,400	0.416	229.5	9,500
<b>Total:</b>		<b>359,016</b>			<b>59,160</b>
Weighted Average MACT Model Point Value:		164.8			
Intermediate MACT Model Point Value (lbs):		59,160			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	92,280	0.348	45.1	4,162
MBR02	Resin (LHPC3523)	573,220	0.316	36.2	20,743
MBR02a	Resin (LHPC4121)	707,260	0.316	36.2	25,593
VLER-4000	VE Resin (VLER-4000)	39,750	0.320	37.2	1,478
Total:		1,412,510			51,975
Weighted Average MACT Model Point Value:		36.8			
Intermediate MACT Model Point Value (lbs):		51,975			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	450	0.358	178.7	80
MBG0a	Polycor HG Green Tooling (945GA104)	3,215	0.472	283.7	912
Total:		3,665			992
Weighted Average MACT Model Point Value:		270.8			
Intermediate MACT Model Point Value (lbs):		992			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	34,590	0.280	27.4	949
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		36,340			1,105
Weighted Average MACT Model Point Value:		30.4			
Intermediate MACT Model Point Value (lbs):		1,105			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	113,232	56.62

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>July 2007</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
August 2006	4.61	50.27	4.38	48.60	3.90	41.90
September 2006	4.38	50.52	4.12	48.64	3.55	41.93
October 2006	5.02	52.05	4.84	50.09	4.07	43.33
November 2006	5.17	53.77	4.94	51.58	4.30	44.46
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **July 2007**

<b>1055</b> Tooling Resin (1055)	Usage (gal): <b>143.9</b>	VOC Content (wt%): <b>0.280</b>	VOCs (lbs): <b>44.9</b>
	Usage (lbs): <b>1,500.0</b>	HAP Content (wt%): <b>0.280</b>	HAPs (lbs): <b>44.9</b>
		Density (lb/gal): <b>10.43</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.00%	0.001	1.6
100-42-5	Styrene	27.00%	0.029	43.3

<b>953LK160</b> Dark Blue Gelcoat (953LK160)	Usage (gal): <b>63.4</b>	VOC Content (wt%): <b>0.362</b>	VOCs (lbs): <b>117.4</b>
	Usage (lbs): <b>620.0</b>	HAP Content (wt%): <b>0.362</b>	HAPs (lbs): <b>117.4</b>
		Density (lb/gal): <b>9.77</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	8.86%	0.068	41.8
100-42-5	Styrene	27.37%	0.122	75.5

<b>963LK188</b> Midnight Blue Gelcoat (963LK188)	Usage (gal): <b>29.7</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>46.9</b>
	Usage (lbs): <b>316.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>46.9</b>
		Density (lb/gal): <b>10.63</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	14.2
100-42-5	Styrene	23.24%	0.103	32.7

<b>963RK139</b> Rueben Gelcoat (963RK139)	Usage (gal): <b>9.1</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>14.5</b>
	Usage (lbs): <b>96.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>14.2</b>
		Density (lb/gal): <b>10.57</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.57%	0.045	4.3
100-42-5	Styrene	23.11%	0.103	9.9

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>117.7</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>185.0</b>
	Usage (lbs): <b>1,249.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>185.0</b>
		Density (lb/gal): <b>10.61</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	56.2
100-42-5	Styrene	23.16%	0.103	128.7

<b>963XA220</b> Armorflex Marine Clear Gelcoat (963XA220)	Usage (gal): <b>67.5</b>	VOC Content (wt%): <b>0.449</b>	VOCs (lbs): <b>148.5</b>
	Usage (lbs): <b>593.0</b>	HAP Content (wt%): <b>0.449</b>	HAPs (lbs): <b>148.5</b>
		Density (lb/gal): <b>8.79</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	10.25%	0.083	48.9
100-42-5	Styrene	34.63%	0.168	99.6

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **July 2007**

✓ 967BK150 Black Barrier Coat (967BK150)	Usage (gal):	208.1	VOC Content (wt%):	0.364	VOCs (lbs):	361.2
	Usage (lbs):	2,020.0	HAP Content (wt%):	0.321	HAPs (lbs):	288.9
			Density (lb/gal):	9.71		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	32.14%	0.143	288.9		
✓ 970XJ037 Patchaid (970XJ037)	Usage (gal):	1.9	VOC Content (wt%):	0.583	VOCs (lbs):	1.9
	Usage (lbs):	16.0	HAP Content (wt%):	0.574	HAPs (lbs):	1.8
			Density (lb/gal):	8.56		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	57.40%	0.111	1.8		
✓ 991NH788 Brown Gelcoat (991NH788)	Usage (gal):	24.2	VOC Content (wt%):	0.318	VOCs (lbs):	42.1
	Usage (lbs):	253.0	HAP Content (wt%):	0.318	HAPs (lbs):	42.1
			Density (lb/gal):	10.45		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.23%	0.053	13.3		
100-42-5	Styrene	25.60%	0.114	28.8		
✓ ADH4011 Conbond (ADH4011)	Usage (gal):	0.4	VOC Content (wt%):	0.549	VOCs (lbs):	1.7
	Usage (lbs):	3.1	HAP Content (wt%):	0.000	HAPs (lbs):	0.0
			Density (lb/gal):	7.11		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		
✓ Flex-Z Flex-Z 1, 2, 3, 4, 5 & 6	Usage (gal):	4.0	VOC Content (wt%):	0.900	VOCs (lbs):	21.0
	Usage (lbs):	23.4	HAP Content (wt%):	0.000	HAPs (lbs):	0.0
			Density (lb/gal):	5.84		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		
✓ IPSAdh IPS Adhesive & Activator	Usage (gal):	193.8	VOC Content (wt%):	0.600	VOCs (lbs):	121.1
	Usage (lbs):	1,756.5	HAP Content (wt%):	0.600	HAPs (lbs):	121.0
			Density (lb/gal):	9.07		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	60.00%	0.069	121.0		
✓ LSPK-2221 Polyester Resin (LSPK-2221)	Usage (gal):	542.5	VOC Content (wt%):	0.348	VOCs (lbs):	184.8
	Usage (lbs):	4,800.0	HAP Content (wt%):	0.348	HAPs (lbs):	184.8
			Density (lb/gal):	8.85		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	34.83%	0.039	184.8		

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **July 2007**

<b>MA300</b> ITW Plexus Adhesive (MA300)	Usage (gal):	<b>1.2</b>	VOC Content (wt%):	<b>0.600</b>	VOCs (lbs):	<b>0.5</b>
	Usage (lbs):	<b>10.3</b>	HAP Content (wt%):	<b>0.600</b>	HAPs (lbs):	<b>0.5</b>
			Density (lb/gal):	<b>8.59</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	60.00%	0.048			0.5
<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	Usage (gal):	<b>485.8</b>	VOC Content (wt%):	<b>0.100</b>	VOCs (lbs):	<b>323.6</b>
	Usage (lbs):	<b>3,241.0</b>	HAP Content (wt%):	<b>0.000</b>	HAPs (lbs):	<b>0.0</b>
			Density (lb/gal):	<b>6.67</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000			0.0
<b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	Usage (gal):	<b>28.2</b>	VOC Content (wt%):	<b>0.308</b>	VOCs (lbs):	<b>48.7</b>
	Usage (lbs):	<b>300.0</b>	HAP Content (wt%):	<b>0.308</b>	HAPs (lbs):	<b>48.7</b>
			Density (lb/gal):	<b>10.63</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.17%	0.053			15.8
100-42-5	Styrene	24.66%	0.110			32.9
<b>MBG02a</b> Armorcote Marble Gelcoat (991AK139)	Usage (gal):	<b>14.9</b>	VOC Content (wt%):	<b>0.320</b>	VOCs (lbs):	<b>26.0</b>
	Usage (lbs):	<b>156.0</b>	HAP Content (wt%):	<b>0.320</b>	HAPs (lbs):	<b>26.1</b>
			Density (lb/gal):	<b>10.44</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.28%	0.053			8.2
100-42-5	Styrene	25.73%	0.115			17.9
<b>MBG02b</b> Armorcote Charcoal Gelcoat (991AK140)	Usage (gal):	<b>19.2</b>	VOC Content (wt%):	<b>0.328</b>	VOCs (lbs):	<b>33.7</b>
	Usage (lbs):	<b>198.0</b>	HAP Content (wt%):	<b>0.328</b>	HAPs (lbs):	<b>33.7</b>
			Density (lb/gal):	<b>10.30</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.33%	0.053			10.4
100-42-5	Styrene	26.43%	0.118			23.3
<b>MBG04</b> Armorcote Vapor Blue Gelcoat (991LK123)	Usage (gal):	<b>9.9</b>	VOC Content (wt%):	<b>0.305</b>	VOCs (lbs):	<b>15.9</b>
	Usage (lbs):	<b>103.0</b>	HAP Content (wt%):	<b>0.305</b>	HAPs (lbs):	<b>15.9</b>
			Density (lb/gal):	<b>10.43</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.98%	0.045			4.6
100-42-5	Styrene	24.56%	0.109			11.3
<b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	Usage (gal):	<b>29.2</b>	VOC Content (wt%):	<b>0.304</b>	VOCs (lbs):	<b>50.1</b>
	Usage (lbs):	<b>311.0</b>	HAP Content (wt%):	<b>0.304</b>	HAPs (lbs):	<b>50.1</b>
			Density (lb/gal):	<b>10.63</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.07%	0.053			16.3
100-42-5	Styrene	24.37%	0.109			33.7



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **July 2007**

<b>MBG05a</b> Armorcote Platinum Gelcoat (991NK124)	Usage (gal):	<b>39.1</b>	VOC Content (wt%):	<b>0.301</b>	VOCs (lbs):	<b>66.9</b>
	Usage (lbs):	<b>420.0</b>	HAP Content (wt%):	<b>0.302</b>	HAPs (lbs):	<b>67.0</b>
			Density (lb/gal):	<b>10.73</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.10%	0.053	22.0		
100-42-5	Styrene	24.05%	0.107	44.9		
<b>MBG06</b> Armorcote White Gelcoat (991WH423)	Usage (gal):	<b>422.3</b>	VOC Content (wt%):	<b>0.329</b>	VOCs (lbs):	<b>791.4</b>
	Usage (lbs):	<b>4,660.0</b>	HAP Content (wt%):	<b>0.329</b>	HAPs (lbs):	<b>791.3</b>
			Density (lb/gal):	<b>11.03</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.50%	0.053	244.7		
100-42-5	Styrene	26.36%	0.117	546.6		
<b>MBG07</b> Armorcote CA Yellow Gelcoat (991YK125)	Usage (gal):	<b>38.9</b>	VOC Content (wt%):	<b>0.306</b>	VOCs (lbs):	<b>65.0</b>
	Usage (lbs):	<b>403.0</b>	HAP Content (wt%):	<b>0.306</b>	HAPs (lbs):	<b>65.0</b>
			Density (lb/gal):	<b>10.35</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.17%	0.053	21.2		
100-42-5	Styrene	24.46%	0.109	43.9		
<b>MBG07a</b> Armorcote Orange Gelcoat (991YK132)	Usage (gal):	<b>34.3</b>	VOC Content (wt%):	<b>0.306</b>	VOCs (lbs):	<b>55.4</b>
	Usage (lbs):	<b>354.0</b>	HAP Content (wt%):	<b>0.306</b>	HAPs (lbs):	<b>55.4</b>
			Density (lb/gal):	<b>10.33</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.58%	0.045	15.9		
100-42-5	Styrene	25.03%	0.111	39.4		
<b>MBM01</b> MEKP9 (Clear & Red)	Usage (gal):	<b>153.5</b>	VOC Content (wt%):	<b>0.450</b>	VOCs (lbs):	<b>52.4</b>
	Usage (lbs):	<b>1,408.0</b>	HAP Content (wt%):	<b>0.430</b>	HAPs (lbs):	<b>24.2</b>
			Density (lb/gal):	<b>9.17</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
131-11-3	Dimethyl Phthalate	43.00%	0.017	24.2		
<b>MBP01</b> EZ Bond Adhesive (5787W00077)	Usage (gal):	<b>92.2</b>	VOC Content (wt%):	<b>0.300</b>	VOCs (lbs):	<b>26.5</b>
	Usage (lbs):	<b>700.0</b>	HAP Content (wt%):	<b>0.300</b>	HAPs (lbs):	<b>26.5</b>
			Density (lb/gal):	<b>7.59</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	30.00%	0.038	26.5		
<b>MBR02a</b> Resin (LHPC4121)	Usage (gal):	<b>8,955.7</b>	VOC Content (wt%):	<b>0.326</b>	VOCs (lbs):	<b>2,908.1</b>
	Usage (lbs):	<b>83,280.0</b>	HAP Content (wt%):	<b>0.316</b>	HAPs (lbs):	<b>2,814.9</b>
			Density (lb/gal):	<b>9.30</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	31.62%	0.034	2,814.9		

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **July 2007**

<b>VLER-4000</b> VE Resin (VLER-4000)	Usage (gal):	<b>205.5</b>	VOC Content (wt%):	<b>0.320</b>	VOCs (lbs):	<b>61.6</b>
	Usage (lbs):	<b>1,800.0</b>	HAP Content (wt%):	<b>0.320</b>	HAPs (lbs):	<b>61.6</b>
			Density (lb/gal):	<b>8.76</b>		

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.00%	0.034	61.6

	Month (lbs)	Month (tons)
<b>VOCs:</b>	5,817	2.91
<b>HAPs:</b>	5,276	2.64

**Malibu Boats Merced Plant: Usage & Emissions****Month of: July 2007**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	24	0.01
80-62-6	Methyl Methacrylate	661	0.33
	No reportable HAPs	0	0.00
100-42-5	Styrene	4,591	2.30
	<b>Total</b>	<b>5,276</b>	<b>2.64</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	37,451	0	0	0.00
Total:		37,451		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	6,581	159	1,046	0.52
963LK188	Midnight Blue Gelcoat (963LK188)	2,189	159	348	0.17
963RK139	Rueben Gelcoat (963RK139)	1,675	159	266	0.13
963RK140	Regal Gelcoat (963RK140)	5,505	159	875	0.44
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,280	159	522	0.26
967BK150	Black Barrier Coat (967BK150)	14,140	159	2,248	1.12
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,017	159	162	0.08
991NH788	Brown Gelcoat (991NH788)	2,856	159	454	0.23
991PK105	Black Iris Gelcoat (991PK105)	45	159	7	0.00
MBG01	Black Barrier Gelcoat (967BJ244)	71,963	159	11,442	5.72
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,551	159	883	0.44
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,650	159	421	0.21
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,028	159	799	0.40
MBG03	Armorcote Black Gelcoat (991BK139)	922	159	147	0.07
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,512	159	399	0.20
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	3,164	159	503	0.25
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	4,399	159	699	0.35

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>			<b>12 Months Ending:</b>		<b>July 2007</b>
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MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,095	159	1,128	0.56
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,991	159	476	0.24
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	159	256	0.13
MBG06	Armorcote White Gelcoat (991WH423)	114,534	159	18,211	9.11
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,126	159	1,133	0.57
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,797	159	445	0.22
MBG08	Armorcote Ruben Gelcoat (991RK111)	4,254	159	676	0.34
MBG08a	Armorcote Regal Gelcoat (991RK112)	9,503	159	1,511	0.76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	159	129	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	707	159	112	0.06
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	36,010	159	5,726	2.86
<b>Total:</b>		<b>347,493</b>		<b>55,251</b>	<b>27.63</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	97,080	46	4,466	2.23
MBR02	Resin (LHPC3523)	573,220	46	26,368	13.18
MBR02a	Resin (LHPC4121)	732,940	46	33,715	16.86
VLER-4000	VE Resin (VLER-4000)	41,550	46	1,911	0.96
<b>Total:</b>		<b>1,444,790</b>		<b>66,460</b>	<b>33.23</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	450	214	96	0.05
MBG0a	Polycor HG Green Tooling (945GA104)	2,000	214	428	0.21

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending:</b>	<b>July 2007</b>
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Total:	2,450	524	0.26
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*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	36,090	54	1,949	0.97
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		37,840		2,043	1.02

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	124,279	62.14

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	37,451	0.000	0.0	0
Total:		37,451			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	6,581	0.362	181.8	1,197
963LK188	Midnight Blue Gelcoat (963LK188)	2,189	0.291	126.1	276
963RK139	Rueben Gelcoat (963RK139)	1,675	0.287	123.0	206
963RK140	Regal Gelcoat (963RK140)	5,505	0.288	123.7	681
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,280	0.449	260.3	854
967BK150	Black Barrier Coat (967BK150)	14,140	0.321	148.8	2,104
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	1,017	0.325	151.7	154
991NH788	Brown Gelcoat (991NH788)	2,856	0.318	146.4	418
991PK105	Black Iris Gelcoat (991PK105)	45	0.312	141.8	6
MBG01	Black Barrier Gelcoat (967BJ244)	71,963	0.318	146.0	10,504
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,551	0.308	138.8	770
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,650	0.320	147.8	392
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,028	0.328	153.7	773
MBG03	Armorcote Black Gelcoat (991BK139)	922	0.326	152.5	141

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: July 2007**

MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,512	0.305	136.6	343
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	3,164	0.322	149.4	473
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	4,399	0.319	147.0	646
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,095	0.304	135.9	964
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,991	0.302	133.7	400
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	0.310	140.2	226
MBG06	Armorcote White Gelcoat (991WH423)	114,534	0.329	154.4	17,689
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,126	0.306	137.3	979
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,797	0.306	137.1	383
MBG08	Armorcote Ruben Gelcoat (991RK111)	4,254	0.309	139.7	594
MBG08a	Armorcote Regal Gelcoat (991RK112)	9,503	0.311	140.5	1,335
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	0.308	138.8	113
MBG08c	Armorcote Pink Gelcoat (991RK124)	707	0.314	143.2	101
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	36,010	0.416	229.5	8,264
<b>Total:</b>		<b>347,493</b>			<b>57,018</b>
Weighted Average MACT Model Point Value:		<b>164.1</b>			
Intermediate MACT Model Point Value (lbs):		<b>57,018</b>			



*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	97,080	0.348	45.1	4,378
MBR02	Resin (LHPC3523)	573,220	0.316	36.2	20,743
MBR02a	Resin (LHPC4121)	732,940	0.316	36.2	26,522
VLER-4000	VE Resin (VLER-4000)	41,550	0.320	37.2	1,545
<b>Total:</b>		<b>1,444,790</b>			<b>53,188</b>
Weighted Average MACT Model Point Value:		36.8			
Intermediate MACT Model Point Value (lbs):		53,188			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	450	0.358	178.7	80
MBG0a	Polycor HG Green Tooling (945GA104)	2,000	0.472	283.7	567
<b>Total:</b>		<b>2,450</b>			<b>648</b>
Weighted Average MACT Model Point Value:		264.4			
Intermediate MACT Model Point Value (lbs):		648			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	36,090	0.280	27.4	990
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
<b>Total:</b>		<b>37,840</b>			<b>1,146</b>
Weighted Average MACT Model Point Value:		30.3			
Intermediate MACT Model Point Value (lbs):		1,146			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	112,000	56.00

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending: August 2007</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
September 2006	4.38	50.52	4.12	48.64	3.55	41.93
October 2006	5.02	52.05	4.84	50.09	4.07	43.33
November 2006	5.17	53.77	4.94	51.58	4.30	44.46
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **August 2007**

<b>1055</b> Tooling Resin (1055)	Usage (gal): <b>239.8</b>	VOC Content (wt%): <b>0.280</b>	VOCs (lbs): <b>74.9</b>
	Usage (lbs): <b>2,500.0</b>	HAP Content (wt%): <b>0.280</b>	HAPs (lbs): <b>74.9</b>
		Density (lb/gal): <b>10.43</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.00%	0.001	2.7
100-42-5	Styrene	27.00%	0.029	72.2

<b>953LK160</b> Dark Blue Gelcoat (953LK160)	Usage (gal): <b>54.0</b>	VOC Content (wt%): <b>0.362</b>	VOCs (lbs): <b>99.9</b>
	Usage (lbs): <b>528.0</b>	HAP Content (wt%): <b>0.362</b>	HAPs (lbs): <b>99.9</b>
		Density (lb/gal): <b>9.77</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	8.86%	0.068	35.6
100-42-5	Styrene	27.37%	0.122	64.3

<b>963LK188</b> Midnight Blue Gelcoat (963LK188)	Usage (gal): <b>53.5</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>84.3</b>
	Usage (lbs): <b>568.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>84.3</b>
		Density (lb/gal): <b>10.63</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	25.6
100-42-5	Styrene	23.24%	0.103	58.7

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>117.8</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>185.1</b>
	Usage (lbs): <b>1,250.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>185.1</b>
		Density (lb/gal): <b>10.61</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	56.3
100-42-5	Styrene	23.16%	0.103	128.8

<b>963XA220</b> Armorflex Marine Clear Gelcoat (963XA220)	Usage (gal): <b>58.4</b>	VOC Content (wt%): <b>0.449</b>	VOCs (lbs): <b>128.5</b>
	Usage (lbs): <b>513.0</b>	HAP Content (wt%): <b>0.449</b>	HAPs (lbs): <b>128.5</b>
		Density (lb/gal): <b>8.79</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	10.25%	0.083	42.3
100-42-5	Styrene	34.63%	0.168	86.2

<b>967BK150</b> Black Barrier Coat (967BK150)	Usage (gal): <b>208.1</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>361.2</b>
	Usage (lbs): <b>2,020.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>288.9</b>
		Density (lb/gal): <b>9.71</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.14%	0.143	288.9

<b>970XJ037</b> Patchaid (970XJ037)	Usage (gal): <b>1.9</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>1.9</b>
	Usage (lbs): <b>16.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>1.8</b>
		Density (lb/gal): <b>8.56</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	57.40%	0.111	1.8

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **August 2007**

<b>991GH369</b>	Usage (gal): <b>9.5</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>16.0</b>
Brite Green Gelcoat (991GH369)	Usage (lbs): <b>97.0</b>	HAP Content (wt%): <b>0.325</b>	HAPs (lbs): <b>16.0</b>
		Density (lb/gal): <b>10.22</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	4.4
100-42-5	Styrene	26.89%	0.120	11.6

<b>991NH788</b>	Usage (gal): <b>19.6</b>	VOC Content (wt%): <b>0.318</b>	VOCs (lbs): <b>34.1</b>
Brown Gelcoat (991NH788)	Usage (lbs): <b>205.0</b>	HAP Content (wt%): <b>0.318</b>	HAPs (lbs): <b>34.1</b>
		Density (lb/gal): <b>10.45</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.23%	0.053	10.8
100-42-5	Styrene	25.60%	0.114	23.4

<b>ADH4011</b>	Usage (gal): <b>8.8</b>	VOC Content (wt%): <b>0.549</b>	VOCs (lbs): <b>34.3</b>
Conbond (ADH4011)	Usage (lbs): <b>62.5</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>7.11</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

*0.4 gal  
8.8 gal  
9.2 gal*

<b>IPSAdh</b>	Usage (gal): <b>387.5</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>242.2</b>
IPS Adhesive & Activator	Usage (lbs): <b>3,513.0</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>242.0</b>
		Density (lb/gal): <b>9.07</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.069	242.0

<b>LSPK-2221</b>	Usage (gal): <b>976.4</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>332.6</b>
Polyester Resin (LSPK-2221)	Usage (lbs): <b>8,640.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>332.6</b>
		Density (lb/gal): <b>8.85</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	34.83%	0.039	332.6

<b>MA300</b>	Usage (gal): <b>6.0</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>2.5</b>
ITW Plexus Adhesive (MA300)	Usage (lbs): <b>51.2</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>2.5</b>
		Density (lb/gal): <b>8.59</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.048	2.5

<b>MBA01</b>	Usage (gal): <b>485.8</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>323.6</b>
Westech HS-MAC18, HP-MAC18 & MPEA	Usage (lbs): <b>3,241.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **August 2007**

<b>MBG02</b>	Usage (gal): <b>29.7</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>51.3</b>
Armorcote Moonbeam Gelcoat (991AK138)	Usage (lbs): <b>316.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>51.3</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.66%	0.110
			HAP/TAP Lbs
			16.6
			34.7
<b>MBG02a</b>	Usage (gal): <b>29.9</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>52.1</b>
Armorcote Marble Gelcoat (991AK139)	Usage (lbs): <b>312.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>52.1</b>
		Density (lb/gal): <b>10.44</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.28%	0.053
100-42-5	Styrene	25.73%	0.115
			HAP/TAP Lbs
			16.4
			35.7
<b>MBG02b</b>	Usage (gal): <b>34.3</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>60.1</b>
Armorcote Charcoal Gelcoat (991AK140)	Usage (lbs): <b>353.0</b>	HAP Content (wt%): <b>0.328</b>	HAPs (lbs): <b>60.0</b>
		Density (lb/gal): <b>10.30</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.33%	0.053
100-42-5	Styrene	26.43%	0.118
			HAP/TAP Lbs
			18.5
			41.5
<b>MBG04</b>	Usage (gal): <b>9.4</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>15.1</b>
Armorcote Vapor Blue Gelcoat (991LK123)	Usage (lbs): <b>98.0</b>	HAP Content (wt%): <b>0.305</b>	HAPs (lbs): <b>15.1</b>
		Density (lb/gal): <b>10.43</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.98%	0.045
100-42-5	Styrene	24.56%	0.109
			HAP/TAP Lbs
			4.4
			10.7
<b>MBG05</b>	Usage (gal): <b>59.2</b>	VOC Content (wt%): <b>0.304</b>	VOCs (lbs): <b>101.4</b>
Armorcote Light Graphite Gelcoat (991NK123)	Usage (lbs): <b>630.0</b>	HAP Content (wt%): <b>0.304</b>	HAPs (lbs): <b>101.4</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.07%	0.053
100-42-5	Styrene	24.37%	0.109
			HAP/TAP Lbs
			33.1
			68.4
<b>MBG06</b>	Usage (gal): <b>630.8</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>1,182.0</b>
Armorcote White Gelcoat (991WH423)	Usage (lbs): <b>6,960.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>1,181.8</b>
		Density (lb/gal): <b>11.03</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.50%	0.053
100-42-5	Styrene	26.36%	0.117
			HAP/TAP Lbs
			365.4
			816.4

**Maiibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **August 2007**

<b>MBG07</b>	Usage (gal): <b>53.5</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>89.4</b>
Armorcote CA Yellow Gelcoat (991YK125)	Usage (lbs): <b>554.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>89.4</b>
		Density (lb/gal): <b>10.35</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.46%	0.109
			HAP/TAP Lbs
			29.1
			60.3
<b>MBM01</b>	Usage (gal): <b>265.1</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>90.5</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>2,432.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>41.8</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
			HAP/TAP Lbs
			41.8
<b>MBP01</b>	Usage (gal): <b>138.4</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>39.7</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>1,050.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>39.7</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs
			39.7
<b>MBR02a</b>	Usage (gal): <b>8,555.7</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>2,778.2</b>
Resin (LHPC4121)	Usage (lbs): <b>79,560.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>2,689.1</b>
		Density (lb/gal): <b>9.30</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	31.62%	0.034
			HAP/TAP Lbs
			2,689.1
<b>VLER-4000</b>	Usage (gal): <b>359.7</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>107.9</b>
VE Resin (VLER-4000)	Usage (lbs): <b>3,150.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>107.9</b>
		Density (lb/gal): <b>8.76</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	32.00%	0.034
			HAP/TAP Lbs
			107.9

	Month (lbs)	Month (tons)
<b>VOCs:</b>	6,489	3.24
<b>HAPs:</b>	5,920	2.96

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **August 2007**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	42	0.02
80-62-6	Methyl Methacrylate	906	0.45
	No reportable HAPs	0	0.00
100-42-5	Styrene	4,973	2.49
	<b>Total</b>	<b>5,920</b>	<b>2.96</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	40,692	0	0	0.00
Total:		40,692		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	7,109	159	1,130	0.57
963LK188	Midnight Blue Gelcoat (963LK188)	2,757	159	438	0.22
963RK139	Rueben Gelcoat (963RK139)	1,675	159	266	0.13
963RK140	Regal Gelcoat (963RK140)	6,755	159	1,074	0.54
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,933	159	466	0.23
967BK150	Black Barrier Coat (967BK150)	16,160	159	2,569	1.28
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,114	159	177	0.09
991NH788	Brown Gelcoat (991NH788)	3,061	159	487	0.24
991PK105	Black Iris Gelcoat (991PK105)	45	159	7	0.00
MBG01	Black Barrier Gelcoat (967BJ244)	65,903	159	10,479	5.24
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,611	159	892	0.45
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,617	159	416	0.21
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,885	159	777	0.39
MBG03	Armorcote Black Gelcoat (991BK139)	779	159	124	0.06
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,360	159	375	0.19
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,958	159	470	0.24
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	3,779	159	601	0.30



<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>			<b>12 Months Ending: August 2007</b>		
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MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,671	159	1,061	0.53
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,729	159	434	0.22
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	159	256	0.13
MBG06	Armorcote White Gelcoat (991WH423)	115,694	159	18,395	9.20
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,077	159	1,125	0.56
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,495	159	397	0.20
MBG08	Armorcote Ruben Gelcoat (991RK111)	3,529	159	561	0.28
MBG08a	Armorcote Regal Gelcoat (991RK112)	8,533	159	1,357	0.68
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	159	129	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	608	159	97	0.05
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	32,090	159	5,102	2.55
<b>Total:</b>		<b>338,926</b>		<b>53,889</b>	<b>26.94</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	105,720	46	4,863	2.43
MBR02	Resin (LHPC3523)	573,220	46	26,368	13.18
MBR02a	Resin (LHPC4121)	685,100	46	31,515	15.76
VLER-4000	VE Resin (VLER-4000)	39,300	46	1,808	0.90
<b>Total:</b>		<b>1,403,340</b>		<b>64,554</b>	<b>32.28</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	450	214	96	0.05
MBG0a	Polycor HG Green Tooling (945GA104)	2,000	214	428	0.21

<b>Mallbu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: August 2007</b>
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Total:	2,450	524	0.26
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*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	34,590	54	1,868	0.93
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		36,340		1,962	0.98

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	120,930	60.46

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	40,692	0.000	0.0	0
Total:		40,692			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	7,109	0.362	181.8	1,293
963LK188	Midnight Blue Gelcoat (963LK188)	2,757	0.291	126.1	348
963RK139	Rueben Gelcoat (963RK139)	1,675	0.287	123.0	206
963RK140	Regal Gelcoat (963RK140)	6,755	0.288	123.7	836
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,933	0.449	260.3	764
967BK150	Black Barrier Coat (967BK150)	16,160	0.321	148.8	2,404
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	1,114	0.325	151.7	169
991NH788	Brown Gelcoat (991NH788)	3,061	0.318	146.4	448
991PK105	Black Iris Gelcoat (991PK105)	45	0.312	141.8	6
MBG01	Black Barrier Gelcoat (967BJ244)	65,903	0.318	146.0	9,619
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,611	0.308	138.8	779
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,617	0.320	147.8	387
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,885	0.328	153.7	751
MBG03	Armorcote Black Gelcoat (991BK139)	779	0.326	152.5	119

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: August 2007**

MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,360	0.305	136.6	322
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,958	0.322	149.4	442
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	3,779	0.319	147.0	555
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,671	0.304	135.9	906
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,729	0.302	133.7	365
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	0.310	140.2	226
MBG06	Armorcote White Gelcoat (991WH423)	115,694	0.329	154.4	17,869
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,077	0.306	137.3	972
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,495	0.306	137.1	342
MBG08	Armorcote Ruben Gelcoat (991RK111)	3,529	0.309	139.7	493
MBG08a	Armorcote Regal Gelcoat (991RK112)	8,533	0.311	140.5	1,199
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	0.308	138.8	113
MBG08c	Armorcote Pink Gelcoat (991RK124)	608	0.314	143.2	87
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	32,090	0.416	229.5	7,364
<b>Total:</b>		<b>338,926</b>			<b>55,415</b>
Weighted Average MACT Model Point Value:		163.5			
Intermediate MACT Model Point Value (lbs):		55,415			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	105,720	0.348	45.1	4,768
MBR02	Resin (LHPC3523)	573,220	0.316	36.2	20,743
MBR02a	Resin (LHPC4121)	685,100	0.316	36.2	24,791
VLER-4000	VE Resin (VLER-4000)	39,300	0.320	37.2	1,461
Total:		1,403,340			51,763
Weighted Average MACT Model Point Value:		36.9			
Intermediate MACT Model Point Value (lbs):		51,763			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	450	0.358	178.7	80
MBG0a	Polycor HG Green Tooling (945GA104)	2,000	0.472	283.7	567
Total:		2,450			648
Weighted Average MACT Model Point Value:		264.4			
Intermediate MACT Model Point Value (lbs):		648			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	34,590	0.280	27.4	949
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		36,340			1,105
Weighted Average MACT Model Point Value:		30.4			
Intermediate MACT Model Point Value (lbs):		1,105			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	108,930	54.47

**Malibu Boats Merced Plant: Monthly & 12 Month Rolling Emissions Summary**
**Year Ending: September 2007**

<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
October 2006	5.02	52.05	4.84	50.09	4.07	43.33
November 2006	5.17	53.77	4.94	51.58	4.30	44.46
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: September 2007

<b>1055</b> Tooling Resin (1055)	Usage (gal): <b>143.9</b>	VOC Content (wt%): <b>0.280</b>	VOCs (lbs): <b>44.9</b>	
	Usage (lbs): <b>1,500.0</b>	HAP Content (wt%): <b>0.280</b>	HAPs (lbs): <b>44.9</b>	
		Density (lb/gal): <b>10.43</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.00%	0.001	1.6
100-42-5	Styrene	27.00%	0.029	43.3

1500  
3500  
1500  

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5,500

<b>5788C90008</b> Patch Booster (5788C90008)	Usage (gal): <b>5.0</b>	VOC Content (wt%): <b>0.650</b>	VOCs (lbs): <b>5.4</b>	
	Usage (lbs): <b>40.8</b>	HAP Content (wt%): <b>0.650</b>	HAPs (lbs): <b>5.4</b>	
		Density (lb/gal): <b>8.16</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	65.00%	0.133	5.4

<b>953LK160</b> Dark Blue Gelcoat (953LK160)	Usage (gal): <b>111.4</b>	VOC Content (wt%): <b>0.362</b>	VOCs (lbs): <b>206.1</b>	
	Usage (lbs): <b>1,089.0</b>	HAP Content (wt%): <b>0.362</b>	HAPs (lbs): <b>206.1</b>	
		Density (lb/gal): <b>9.77</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	8.86%	0.068	73.5
100-42-5	Styrene	27.37%	0.122	132.6

620  
528  
1089  

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2,237

<b>963LK188</b> Midnight Blue Gelcoat (963LK188)	Usage (gal): <b>48.8</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>77.0</b>	
	Usage (lbs): <b>519.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>77.0</b>	
		Density (lb/gal): <b>10.63</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	23.4
100-42-5	Styrene	23.24%	0.103	53.7

316  
568  
519  

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1,403

<b>963RK139</b> Rueben Gelcoat (963RK139)	Usage (gal): <b>9.5</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>15.1</b>	
	Usage (lbs): <b>100.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>14.8</b>	
		Density (lb/gal): <b>10.57</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.57%	0.045	4.5
100-42-5	Styrene	23.11%	0.103	10.3

96  
100  

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196

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>83.9</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>131.8</b>	
	Usage (lbs): <b>890.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>131.8</b>	
		Density (lb/gal): <b>10.61</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	40.0
100-42-5	Styrene	23.16%	0.103	91.7

1,249  
1250  
890  

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3,389

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: September 2007

✓ 963XA220 Armorflex Marine Clear Gelcoat (963XA220)	Usage (gal):	22.8	VOC Content (wt%):	0.449	VOCs (lbs):	50.1
	Usage (lbs):	200.0	HAP Content (wt%):	0.449	HAPs (lbs):	50.1
			Density (lb/gal):	8.79		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	10.25%	0.083	16.5		
100-42-5	Styrene	34.63%	0.168	33.6		
						593 513 200 <hr/> 1,306
✓ 965BK183 Black VE Tooling (965BK183)	Usage (gal):	50.8	VOC Content (wt%):	0.409	VOCs (lbs):	103.4
	Usage (lbs):	469.0	HAP Content (wt%):	0.358	HAPs (lbs):	83.5
			Density (lb/gal):	9.23		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	35.84%	0.178	83.5		
						469
✓ 967BK150 Black Barrier Coat (967BK150)	Usage (gal):	832.4	VOC Content (wt%):	0.364	VOCs (lbs):	1,445.0
	Usage (lbs):	8,080.0	HAP Content (wt%):	0.321	HAPs (lbs):	1,155.5
			Density (lb/gal):	9.71		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	32.14%	0.143	1,155.5		
						2,020 2,020 8080 <hr/> 12,120
✓ 970XJ037 Patchaid (970XJ037)	Usage (gal):	0.9	VOC Content (wt%):	0.583	VOCs (lbs):	1.0
	Usage (lbs):	8.0	HAP Content (wt%):	0.574	HAPs (lbs):	0.9
			Density (lb/gal):	8.56		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	57.40%	0.111	0.9		
						16 16 8 <hr/> 40 16 patch 100% 100%
✓ 991GH369 Brite Green Gelcoat (991GH369)	Usage (gal):	79.7	VOC Content (wt%):	0.325	VOCs (lbs):	134.0
	Usage (lbs):	814.0	HAP Content (wt%):	0.325	HAPs (lbs):	134.0
			Density (lb/gal):	10.22		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.62%	0.045	36.6		
100-42-5	Styrene	26.89%	0.120	97.4		
						97 814 <hr/> 911
✓ 991NH788 Brown Gelcoat (991NH788)	Usage (gal):	47.9	VOC Content (wt%):	0.318	VOCs (lbs):	83.4
	Usage (lbs):	501.0	HAP Content (wt%):	0.318	HAPs (lbs):	83.4
			Density (lb/gal):	10.45		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.23%	0.053	26.3		
100-42-5	Styrene	25.60%	0.114	57.1		
						253 205 501 <hr/> 959
✓ 991PK105 Black Iris Gelcoat (991PK105)	Usage (gal):	4.5	VOC Content (wt%):	0.328	VOCs (lbs):	8.3
	Usage (lbs):	47.0	HAP Content (wt%):	0.312	HAPs (lbs):	7.6
			Density (lb/gal):	10.37		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.81%	0.053	2.5		
100-42-5	Styrene	24.41%	0.109	5.1		
						47



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: September 2007

<b>Flex-Z</b> Flex-Z 1, 2, 3, 4, 5 & 6	Usage (gal): <b>16.0</b>	VOC Content (wt%): <b>0.900</b>	VOCs (lbs): <b>84.1</b>
	Usage (lbs): <b>93.4</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>5.84</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0

23.4 lb  
0  
16.0 lb  
39.4 lb

<b>IPSAth</b> IPS Adhesive & Activator	Usage (gal): <b>198.5</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>124.1</b>
	Usage (lbs): <b>1,799.8</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>124.0</b>
		Density (lb/gal): <b>9.07</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	60.00%	0.069
			HAP/TAP Lbs
			124.0

193.8 gal  
387.5 gal  
198.5 gal  
779.8

<b>LSPK-2221</b> Polyester Resin (LSPK-2221)	Usage (gal): <b>922.2</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>314.2</b>
	Usage (lbs): <b>8,160.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>314.2</b>
		Density (lb/gal): <b>8.85</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	34.83%	0.039
			HAP/TAP Lbs
			314.2

4800  
8640  
8160  
21,600

<b>MA300</b> ITW Plexus Adhesive (MA300)	Usage (gal): <b>6.6</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>2.7</b>
	Usage (lbs): <b>56.6</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>2.7</b>
		Density (lb/gal): <b>8.59</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	60.00%	0.048
			HAP/TAP Lbs
			2.7

11.2 gal  
6.0 gal  
6.6 gal  
13,8 gal

<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	Usage (gal): <b>242.9</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>161.8</b>
	Usage (lbs): <b>1,620.5</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0

gal lb  
485.8 3241  
485.8 3241  
242.9 1620.5  
1214.5 8102.5

<b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	Usage (gal): <b>24.5</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>42.2</b>
	Usage (lbs): <b>260.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>42.2</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.66%	0.110
			HAP/TAP Lbs
			13.6
			28.5

300  
316  
260  
876

<b>MBG02a</b> Armorcote Marble Gelcoat (991AK139)	Usage (gal): <b>60.0</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>104.5</b>
	Usage (lbs): <b>626.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>104.5</b>
		Density (lb/gal): <b>10.44</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.28%	0.053
100-42-5	Styrene	25.73%	0.115
			HAP/TAP Lbs
			32.9
			71.7

156  
312  
626  
1,094

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** **Month of: September 2007**

Product Name	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)
<b>MBG02b</b> Armorcote Charcoal Gelcoat (991AK140)	28.5	294.0	0.328	0.328	10.30	50.0	50.0
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.33%	0.053	15.4			
100-42-5	Styrene	26.43%	0.118	34.6			
<b>MBG04</b> Armorcote Vapor Blue Gelcoat (991LK123)	24.7	257.0	0.305	0.305	10.43	39.6	39.7
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	5.98%	0.045	11.6			
100-42-5	Styrene	24.56%	0.109	28.1			
<b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	29.8	317.0	0.304	0.304	10.63	51.0	51.0
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.07%	0.053	16.6			
100-42-5	Styrene	24.37%	0.109	34.4			
<b>MBG05a</b> Armorcote Platinum Gelcoat (991NK124)	9.5	102.0	0.301	0.302	10.73	16.3	16.3
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.10%	0.053	5.4			
100-42-5	Styrene	24.05%	0.107	10.9			
<b>MBG06</b> Armorcote White Gelcoat (991WH423)	841.1	9,280.0	0.329	0.329	11.03	1,576.0	1,575.7
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.50%	0.053	487.2			
100-42-5	Styrene	26.36%	0.117	1,088.5			
<b>MBG07</b> Armorcote CA Yellow Gelcoat (991YK125)	19.1	198.0	0.306	0.306	10.35	31.9	31.9
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.17%	0.053	10.4			
100-42-5	Styrene	24.46%	0.109	21.6			

198  
353  
294  
845

103  
98  
257  
458

311  
630  
317  
1258

420  
0  
102  
522

4660  
6960  
9280  
20,900

403  
554  
198  
1155

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: September 2007

<b>MBG07a</b>	Usage (gal): <b>58.9</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>95.2</b>
Armorcote Orange Gelcoat (991YK132)	Usage (lbs): <b>609.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>95.2</b>
		Density (lb/gal): <b>10.33</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.58%	0.045
100-42-5	Styrene	25.03%	0.111
			HAP/TAP Lbs
			27.4
			67.8
<b>MBM01</b>	Usage (gal): <b>205.8</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>70.2</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>1,888.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>32.5</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
			HAP/TAP Lbs
			32.5
<b>MBM02</b>	Usage (gal): <b>31.7</b>	VOC Content (wt%): <b>0.008</b>	VOCs (lbs): <b>2.2</b>
Aquawash (095-0040)	Usage (lbs): <b>270.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>8.51</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0
<b>MBP01</b>	Usage (gal): <b>92.2</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>26.5</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>700.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>26.5</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs
			26.5
<b>MBR02</b>	Usage (gal): <b>4,329.5</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,406.3</b>
Resin (LHPC3523)	Usage (lbs): <b>40,260.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,360.8</b>
		Density (lb/gal): <b>9.30</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	31.62%	0.034
			HAP/TAP Lbs
			1,360.8
<b>MBR02a</b>	Usage (gal): <b>4,237.0</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,375.8</b>
Resin (LHPC4121)	Usage (lbs): <b>39,400.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,331.7</b>
		Density (lb/gal): <b>9.30</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	31.62%	0.034
			HAP/TAP Lbs
			1,331.7
<b>VLER-4000</b>	Usage (gal): <b>154.2</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>46.2</b>
VE Resin (VLER-4000)	Usage (lbs): <b>1,350.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>46.2</b>
		Density (lb/gal): <b>8.76</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	32.00%	0.034
			HAP/TAP Lbs
			46.2

354  
 0  
 609  
 963  
  
 1408  
 2432  
 1888  
 5,728  
 0  
 31,780  
 31,780 gal  
  
 92.2 gal  
 138.47 gal  
 92.2 gal  
 322.8 gal  
 0  
 0  
 4329.5  
 4329.5  
  
 83,280  
 79,560  
 39,400  
 202,240  
  
 1800  
 3150  
 1350  
 6300

	Month (lbs)	Month (tons)
VOCs:	7,927	3.96
HAPs:	7,240	3.62

**Malibu Boats Merced Plant: Usage & Emissions****Month of: September 2007**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	32	0.02
80-62-6	Methyl Methacrylate	972	0.49
	No reportable HAPs	0	0.00
100-42-5	Styrene	6,236	3.12
	<b>Total</b>	<b>7,240</b>	<b>3.62</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	41,713	0	0	0.00
Total:		41,713		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	8,198	159	1,303	0.65
963LK188	Midnight Blue Gelcoat (963LK188)	3,276	159	521	0.26
963RK139	Rueben Gelcoat (963RK139)	1,775	159	282	0.14
963RK140	Regal Gelcoat (963RK140)	7,645	159	1,216	0.61
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,133	159	498	0.25
967BK150	Black Barrier Coat (967BK150)	24,240	159	3,854	1.93
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,928	159	307	0.15
991NH788	Brown Gelcoat (991NH788)	3,562	159	566	0.28
991PK105	Black Iris Gelcoat (991PK105)	92	159	15	0.01
MBG01	Black Barrier Gelcoat (967BJ244)	56,860	159	9,041	4.52
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,718	159	909	0.45
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,894	159	460	0.23
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,576	159	728	0.36
MBG03	Armorcote Black Gelcoat (991BK139)	470	159	75	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,411	159	383	0.19
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,701	159	429	0.21
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	3,025	159	481	0.24
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,458	159	1,027	0.51

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending September 2007</b>	
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MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,732	159	434	0.22
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	159	256	0.13
MBG06	Armorcote White Gelcoat (991WH423)	116,274	159	18,488	9.24
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,577	159	1,046	0.52
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,950	159	469	0.23
MBG08	Armorcote Ruben Gelcoat (991RK111)	2,804	159	446	0.22
MBG08a	Armorcote Regal Gelcoat (991RK112)	7,926	159	1,260	0.63
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	500	159	79	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	519	159	83	0.04
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	27,190	159	4,323	2.16
<b>Total:</b>		<b>334,427</b>		<b>53,174</b>	<b>26.59</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	106,200	46	4,885	2.44
MBR02	Resin (LHPC3523)	613,480	46	28,220	14.11
MBR02a	Resin (LHPC4121)	644,000	46	29,624	14.81
VLER-4000	VE Resin (VLER-4000)	38,850	46	1,787	0.89
<b>Total:</b>		<b>1,402,530</b>		<b>64,516</b>	<b>32.26</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	919	214	197	0.10
MBG0a	Polycor HG Green Tooling (945GA104)	1,550	214	332	0.17
<b>Total:</b>		<b>2,469</b>		<b>528</b>	<b>0.26</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	36,090	54	1,949	0.97
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
<b>Total:</b>		<b>37,840</b>		<b>2,043</b>	<b>1.02</b>

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	120,262	60.13

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	41,713	0.000	0.0	0
Total:		41,713			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	8,198	0.362	181.8	1,491
963LK188	Midnight Blue Gelcoat (963LK188)	3,276	0.291	126.1	413
963RK139	Rueben Gelcoat (963RK139)	1,775	0.287	123.0	218
963RK140	Regal Gelcoat (963RK140)	7,645	0.288	123.7	946
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,133	0.449	260.3	816
967BK150	Black Barrier Coat (967BK150)	24,240	0.321	148.8	3,607
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	1,928	0.325	151.7	292
991NH788	Brown Gelcoat (991NH788)	3,562	0.318	146.4	522
991PK105	Black Iris Gelcoat (991PK105)	92	0.312	141.8	13
MBG01	Black Barrier Gelcoat (967BJ244)	56,860	0.318	146.0	8,299
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,718	0.308	138.8	794
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,894	0.320	147.8	428
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,576	0.328	153.7	703
MBG03	Armorcote Black Gelcoat (991BK139)	470	0.326	152.5	72



<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: September 2007</b>
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Product Number	Product Name	Usage (lbs)	HAP Content	MACT PV	Usage * MACT PV/1000
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,411	0.305	136.6	329
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,701	0.322	149.4	403
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	3,025	0.319	147.0	445
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,458	0.304	135.9	877
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,732	0.302	133.7	365
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	0.310	140.2	226
MBG06	Armorcote White Gelcoat (991WH423)	116,274	0.329	154.4	17,958
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,577	0.306	137.3	903
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,950	0.306	137.1	404
MBG08	Armorcote Ruben Gelcoat (991RK111)	2,804	0.309	139.7	392
MBG08a	Armorcote Regal Gelcoat (991RK112)	7,926	0.311	140.5	1,113
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	500	0.308	138.8	69
MBG08c	Armorcote Pink Gelcoat (991RK124)	519	0.314	143.2	74
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	27,190	0.416	229.5	6,240
<b>Total:</b>		<b>334,427</b>			<b>54,416</b>
Weighted Average MACT Model Point Value:		162.7			
Intermediate MACT Model Point Value (lbs):		54,416			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs)	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	106,200	0.348	45.1	4,789

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: September 2007</b>
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MBR02	Resin (LHPC3523)	613,480	0.316	36.2	22,199
MBR02a	Resin (LHPC4121)	644,000	0.316	36.2	23,304
VLER-4000	VE Resin (VLER-4000)	38,850	0.320	37.2	1,445
<b>Total:</b>		<b>1,402,530</b>			<b>51,737</b>
Weighted Average MACT Model Point Value:		36.9			
Intermediate MACT Model Point Value (lbs):		51,737			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	919	0.358	178.7	164
MBG0a	Polycor HG Green Tooling (945GA104)	1,550	0.472	283.7	440
<b>Total:</b>		<b>2,469</b>			<b>604</b>
Weighted Average MACT Model Point Value:		244.6			
Intermediate MACT Model Point Value (lbs):		604			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	36,090	0.280	27.4	990
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
<b>Total:</b>		<b>37,840</b>			<b>1,146</b>
Weighted Average MACT Model Point Value:		30.3			
Intermediate MACT Model Point Value (lbs):		1,146			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	107,903	53.95

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending: October 2007</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
November 2006	5.17	53.77	4.94	51.58	4.30	44.46
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **October 2007**

<b>1055</b>	Usage (gal): <b>143.9</b>		VOC Content (wt%): <b>0.280</b>		VOCs (lbs): <b>44.9</b>	
Tooling Resin (1055)	Usage (lbs): <b>1,500.0</b>		HAP Content (wt%): <b>0.280</b>		HAPs (lbs): <b>44.9</b>	
			Density (lb/gal): <b>10.43</b>			
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	1.00%	0.001	1.6		
100-42-5	Styrene	27.00%	0.029	43.3		
<hr/>						
<b>953LK160</b>	Usage (gal): <b>145.3</b>		VOC Content (wt%): <b>0.362</b>		VOCs (lbs): <b>268.8</b>	
Dark Blue Gelcoat (953LK160)	Usage (lbs): <b>1,420.0</b>		HAP Content (wt%): <b>0.362</b>		HAPs (lbs): <b>268.8</b>	
			Density (lb/gal): <b>9.77</b>			
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	8.86%	0.068	95.9		
100-42-5	Styrene	27.37%	0.122	172.9		
<hr/>						
<b>963LK188</b>	Usage (gal): <b>59.9</b>		VOC Content (wt%): <b>0.291</b>		VOCs (lbs): <b>94.4</b>	
Midnight Blue Gelcoat (963LK188)	Usage (lbs): <b>636.0</b>		HAP Content (wt%): <b>0.291</b>		HAPs (lbs): <b>94.4</b>	
			Density (lb/gal): <b>10.63</b>			
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.88%	0.045	28.6		
100-42-5	Styrene	23.24%	0.103	65.8		
<hr/>						
<b>963RK139</b>	Usage (gal): <b>37.9</b>		VOC Content (wt%): <b>0.290</b>		VOCs (lbs): <b>60.4</b>	
Rueben Gelcoat (963RK139)	Usage (lbs): <b>400.0</b>		HAP Content (wt%): <b>0.287</b>		HAPs (lbs): <b>59.1</b>	
			Density (lb/gal): <b>10.57</b>			
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.57%	0.045	18.0		
100-42-5	Styrene	23.11%	0.103	41.1		
<hr/>						
<b>963RK140</b>	Usage (gal): <b>148.4</b>		VOC Content (wt%): <b>0.288</b>		VOCs (lbs): <b>233.1</b>	
Regal Gelcoat (963RK140)	Usage (lbs): <b>1,574.0</b>		HAP Content (wt%): <b>0.288</b>		HAPs (lbs): <b>233.1</b>	
			Density (lb/gal): <b>10.61</b>			
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.62%	0.045	70.8		
100-42-5	Styrene	23.16%	0.103	162.2		
<hr/>						
<b>967BK150</b>	Usage (gal): <b>832.4</b>		VOC Content (wt%): <b>0.364</b>		VOCs (lbs): <b>1,445.0</b>	
Black Barrier Coat (967BK150)	Usage (lbs): <b>8,080.0</b>		HAP Content (wt%): <b>0.321</b>		HAPs (lbs): <b>1,155.5</b>	
			Density (lb/gal): <b>9.71</b>			
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	32.14%	0.143	1,155.5		
<hr/>						
<b>970XJ037</b>	Usage (gal): <b>1.9</b>		VOC Content (wt%): <b>0.583</b>		VOCs (lbs): <b>1.9</b>	
Patchaid (970XJ037)	Usage (lbs): <b>16.0</b>		HAP Content (wt%): <b>0.574</b>		HAPs (lbs): <b>1.8</b>	
			Density (lb/gal): <b>8.56</b>			
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	57.40%	0.111	1.8		

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **October 2007**

<b>991GH369</b> Brite Green Gelcoat (991GH369)	Usage (gal): <b>48.5</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>81.5</b>
	Usage (lbs): <b>495.0</b>	HAP Content (wt%): <b>0.325</b>	HAPs (lbs): <b>81.5</b>
		Density (lb/gal): <b>10.22</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	22.3
100-42-5	Styrene	26.89%	0.120	59.2

<b>991PK105</b> Black Iris Gelcoat (991PK105)	Usage (gal): <b>18.6</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>34.2</b>
	Usage (lbs): <b>193.0</b>	HAP Content (wt%): <b>0.312</b>	HAPs (lbs): <b>31.1</b>
		Density (lb/gal): <b>10.37</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.81%	0.053	10.1
100-42-5	Styrene	24.41%	0.109	21.0

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<b>ADH4011</b> Conbond (ADH4011)	Usage (gal): <b>6.0</b>	VOC Content (wt%): <b>0.549</b>	VOCs (lbs): <b>23.4</b>
	Usage (lbs): <b>42.7</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>7.11</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

<b>Flex-Z</b> Flex-Z 1, 2, 3, 4, 5 & 6	Usage (gal): <b>16.0</b>	VOC Content (wt%): <b>0.900</b>	VOCs (lbs): <b>84.1</b>
	Usage (lbs): <b>93.4</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>5.84</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

<b>IPSAth</b> IPS Adhesive & Activator	Usage (gal): <b>227.2</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>142.0</b>
	Usage (lbs): <b>2,059.6</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>141.9</b>
		Density (lb/gal): <b>9.07</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.069	141.9

<b>LSPK-2221</b> Polyester Resin (LSPK-2221)	Usage (gal): <b>1,084.9</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>369.6</b>
	Usage (lbs): <b>9,600.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>369.6</b>
		Density (lb/gal): <b>8.85</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	34.83%	0.039	369.6

<b>MA300</b> ITW Plexus Adhesive (MA300)	Usage (gal): <b>2.4</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>1.0</b>
	Usage (lbs): <b>20.7</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>1.0</b>
		Density (lb/gal): <b>8.59</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.048	1.0

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **October 2007**

<b>MBA01</b>	Usage (gal): <b>485.8</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>323.6</b>
Westech HS-MAC18, HP-MAC18 & MPEA	Usage (lbs): <b>3,241.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0
<b>MBG02</b>	Usage (gal): <b>9.4</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>16.2</b>
Armorcote Moonbeam Gelcoat (991AK138)	Usage (lbs): <b>100.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>16.2</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.66%	0.110
			HAP/TAP Lbs
			5.3
			11.0
<b>MBG02b</b>	Usage (gal): <b>48.3</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>84.7</b>
Armorcote Charcoal Gelcoat (991AK140)	Usage (lbs): <b>498.0</b>	HAP Content (wt%): <b>0.328</b>	HAPs (lbs): <b>84.7</b>
		Density (lb/gal): <b>10.30</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.33%	0.053
100-42-5	Styrene	26.43%	0.118
			HAP/TAP Lbs
			26.1
			58.6
<b>MBG04</b>	Usage (gal): <b>9.8</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>15.7</b>
Armorcote Vapor Blue Gelcoat (991LK123)	Usage (lbs): <b>102.0</b>	HAP Content (wt%): <b>0.305</b>	HAPs (lbs): <b>15.7</b>
		Density (lb/gal): <b>10.43</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.98%	0.045
100-42-5	Styrene	24.56%	0.109
			HAP/TAP Lbs
			4.6
			11.1
<b>MBG05</b>	Usage (gal): <b>39.9</b>	VOC Content (wt%): <b>0.304</b>	VOCs (lbs): <b>68.3</b>
Armorcote Light Graphite Gelcoat (991NK123)	Usage (lbs): <b>424.0</b>	HAP Content (wt%): <b>0.304</b>	HAPs (lbs): <b>68.3</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.07%	0.053
100-42-5	Styrene	24.37%	0.109
			HAP/TAP Lbs
			22.3
			46.0
<b>MBG06</b>	Usage (gal): <b>841.1</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>1,576.0</b>
Armorcote White Gelcoat (991WH423)	Usage (lbs): <b>9,280.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>1,575.7</b>
		Density (lb/gal): <b>11.03</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.50%	0.053
100-42-5	Styrene	26.36%	0.117
			HAP/TAP Lbs
			487.2
			1,088.5
<b>MBG07</b>	Usage (gal): <b>53.7</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>89.7</b>
Armorcote CA Yellow Gelcoat (991YK125)	Usage (lbs): <b>556.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>89.7</b>
		Density (lb/gal): <b>10.35</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.46%	0.109
			HAP/TAP Lbs
			29.2
			60.5

498  
0  
498

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **October 2007**

<b>MBG08b</b>	Usage (gal): <b>9.3</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>15.3</b>
Armorcote Sangrial Gelcoat (991RK118)	Usage (lbs): <b>97.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>15.3</b>
		Density (lb/gal): <b>10.45</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.55%	0.045
100-42-5	Styrene	25.28%	0.113
			HAP/TAP Lbs
			4.4
			10.9
<b>MBG0a</b>	Usage (gal): <b>5.0</b>	VOC Content (wt%): <b>0.472</b>	VOCs (lbs): <b>13.0</b>
Plycor HG Green Tooling (945GA104)	Usage (lbs): <b>45.0</b>	HAP Content (wt%): <b>0.472</b>	HAPs (lbs): <b>13.0</b>
		Density (lb/gal): <b>9.06</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	4.95%	0.038
100-42-5	Styrene	42.29%	0.251
			HAP/TAP Lbs
			1.7
			11.3
<b>MBM01</b>	Usage (gal): <b>334.0</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>114.0</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>3,064.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>52.7</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
			HAP/TAP Lbs
			52.7
<b>MBM02</b>	Usage (gal): <b>31.7</b>	VOC Content (wt%): <b>0.008</b>	VOCs (lbs): <b>2.2</b>
Aquawash (095-0040)	Usage (lbs): <b>270.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>8.51</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0
<b>MBP01</b>	Usage (gal): <b>138.4</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>39.7</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>1,050.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>39.7</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs
			39.7
<b>MBR02a</b>	Usage (gal): <b>8,514.8</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>2,765.0</b>
Resin (LHPC4121)	Usage (lbs): <b>79,180.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>2,676.3</b>
		Density (lb/gal): <b>9.30</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	31.62%	0.034
			HAP/TAP Lbs
			2,676.3
<b>VLER-4000</b>	Usage (gal): <b>154.2</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>46.2</b>
VE Resin (VLER-4000)	Usage (lbs): <b>1,350.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>46.2</b>
		Density (lb/gal): <b>8.76</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	32.00%	0.034
			HAP/TAP Lbs
			46.2

45

1,350  
0  
0  
1,350

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **October 2007**

**VSXH-2200**

VE Resin (VSXH-2200)

Usage (gal):	<b>109.4</b>
Usage (lbs):	<b>1,000.0</b>

VOC Content (wt%):	<b>0.364</b>
HAP Content (wt%):	<b>0.349</b>
Density (lb/gal):	<b>9.14</b>

VOCs (lbs):	<b>54.0</b>
HAPs (lbs):	<b>38.5</b>



CAS No  
100-42-5

Chemical  
Styrene

Weight %  
34.89%

E-Factor  
0.039

HAP/TAP Lbs  
38.5

	Month (lbs)	Month (tons)
VOCs:	8,108	4.05
HAPs:	7,215	3.61



**Malibu Boats Merced Plant: Usage & Emissions****Month of: October 2007**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	53	0.03
80-62-6	Methyl Methacrylate	971	0.49
	No reportable HAPs	0	0.00
100-42-5	Styrene	6,191	3.10
	<b>Total</b>	<b>7,215</b>	<b>3.61</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	44,353	0	0	0.00
Total:		44,353		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	9,618	159	1,529	0.76
963LK188	Midnight Blue Gelcoat (963LK188)	3,912	159	622	0.31
963RK139	Rueben Gelcoat (963RK139)	2,175	159	346	0.17
963RK140	Regal Gelcoat (963RK140)	9,219	159	1,466	0.73
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,133	159	498	0.25
967BK150	Black Barrier Coat (967BK150)	32,320	159	5,139	2.57
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	2,423	159	385	0.19
991NH788	Brown Gelcoat (991NH788)	3,562	159	566	0.28
991PK105	Black Iris Gelcoat (991PK105)	285	159	45	0.02
MBG01	Black Barrier Gelcoat (967BJ244)	51,305	159	8,157	4.08
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,248	159	834	0.42
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,792	159	444	0.22
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,266	159	678	0.34
MBG03	Armorcote Black Gelcoat (991BK139)	470	159	75	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,414	159	384	0.19
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,237	159	356	0.18
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	1,360	159	216	0.11
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,407	159	1,019	0.51

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: October 2007</b>
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,411	159	383	0.19
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	159	0	0.00
MBG06	Armorcote White Gelcoat (991WH423)	113,954	159	18,119	9.06
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,679	159	1,062	0.53
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,902	159	461	0.23
MBG08	Armorcote Ruben Gelcoat (991RK111)	2,703	159	430	0.21
MBG08a	Armorcote Regal Gelcoat (991RK112)	5,931	159	943	0.47
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	553	159	88	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	519	159	83	0.04
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	19,350	159	3,077	1.54
<b>Total:</b>		<b>324,531</b>		<b>51,600</b>	<b>25.80</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	107,520	46	4,946	2.47
MBR02	Resin (LHPC3523)	573,160	46	26,365	13.18
MBR02a	Resin (LHPC4121)	683,120	46	31,424	15.71
VLER-4000	VE Resin (VLER-4000)	35,700	46	1,642	0.82
VSXH-2200	VE Resin (VSXH-2200)	1,000	46	46	0.02
<b>Total:</b>		<b>1,400,500</b>		<b>64,423</b>	<b>32.21</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	919	214	197	0.10
MBG0a	Polycor HG Green Tooling (945GA104)	1,145	214	245	0.12
<b>Total:</b>		<b>2,064</b>		<b>442</b>	<b>0.22</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	31,590	54	1,706	0.85
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		33,340		1,800	0.90

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	118,265	59.13

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	44,353	0.000	0.0	0
Total:		44,353			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	9,618	0.362	181.8	1,749
963LK188	Midnight Blue Gelcoat (963LK188)	3,912	0.291	126.1	493
963RK139	Rueben Gelcoat (963RK139)	2,175	0.287	123.0	268
963RK140	Regal Gelcoat (963RK140)	9,219	0.288	123.7	1,140
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,133	0.449	260.3	816
967BK150	Black Barrier Coat (967BK150)	32,320	0.321	148.8	4,809
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	2,423	0.325	151.7	368
991NH788	Brown Gelcoat (991NH788)	3,562	0.318	146.4	522
991PK105	Black Iris Gelcoat (991PK105)	285	0.312	141.8	40
MBG01	Black Barrier Gelcoat (967BJ244)	51,305	0.318	146.0	7,489
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,248	0.308	138.8	728
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,792	0.320	147.8	413
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,266	0.328	153.7	656
MBG03	Armorcote Black Gelcoat (991BK139)	470	0.326	152.5	72

<b>Mallbu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending:</b>	<b>October 2007</b>
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Product ID	Product Name	Usage (lbs)	HAP Content	MACT PV	Usage * MACT PV/1000
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,414	0.305	136.6	330
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,237	0.322	149.4	334
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	1,360	0.319	147.0	200
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,407	0.304	135.9	871
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,411	0.302	133.7	322
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	0.310	140.2	0
MBG06	Armorcote White Gelcoat (991WH423)	113,954	0.329	154.4	17,600
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,679	0.306	137.3	917
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,902	0.306	137.1	398
MBG08	Armorcote Ruben Gelcoat (991RK111)	2,703	0.309	139.7	378
MBG08a	Armorcote Regal Gelcoat (991RK112)	5,931	0.311	140.5	833
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	553	0.308	138.8	77
MBG08c	Armorcote Pink Gelcoat (991RK124)	519	0.314	143.2	74
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	19,350	0.416	229.5	4,440
<b>Total:</b>		<b>324,531</b>			<b>52,338</b>
Weighted Average MACT Model Point Value:		161.3			
Intermediate MACT Model Point Value (lbs):		52,338			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs)	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	107,520	0.348	45.1	4,849

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>October 2007</b>
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MBR02	Resin (LHPC3523)	573,160	0.316	36.2	20,740
MBR02a	Resin (LHPC4121)	683,120	0.316	36.2	24,719
VLER-4000	VE Resin (VLER-4000)	35,700	0.320	37.2	1,327
VSXH-2200	VE Resin (VSXH-2200)	1,000	0.349	45.3	45
<b>Total:</b>		<b>1,400,500</b>			<b>51,681</b>
Weighted Average MACT Model Point Value:		36.9			
Intermediate MACT Model Point Value (lbs):		51,681			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	919	0.358	178.7	164
MBG0a	Polycor HG Green Tooling (945GA104)	1,145	0.472	283.7	325
<b>Total:</b>		<b>2,064</b>			<b>489</b>
Weighted Average MACT Model Point Value:		236.9			
Intermediate MACT Model Point Value (lbs):		489			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	31,590	0.280	27.4	867
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
<b>Total:</b>		<b>33,340</b>			<b>1,022</b>
Weighted Average MACT Model Point Value:		30.7			
Intermediate MACT Model Point Value (lbs):		1,022			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	105,531	52.77

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending: November 2007</b>
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Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

**Month of: November 2007**

<b>1055</b> Tooling Resin (1055)	Usage (gal): <b>287.8</b>	VOC Content (wt%): <b>0.280</b>	VOCs (lbs): <b>89.9</b>
	Usage (lbs): <b>3,000.0</b>	HAP Content (wt%): <b>0.280</b>	HAPs (lbs): <b>89.9</b>
		Density (lb/gal): <b>10.43</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.00%	0.001	3.2
100-42-5	Styrene	27.00%	0.029	86.7

<b>953LK160</b> Dark Blue Gelcoat (953LK160)	Usage (gal): <b>15.9</b>	VOC Content (wt%): <b>0.362</b>	VOCs (lbs): <b>29.3</b>
	Usage (lbs): <b>155.0</b>	HAP Content (wt%): <b>0.362</b>	HAPs (lbs): <b>29.3</b>
		Density (lb/gal): <b>9.77</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	8.86%	0.068	10.5
100-42-5	Styrene	27.37%	0.122	18.9

<b>963LK188</b> Midnight Blue Gelcoat (963LK188)	Usage (gal): <b>15.0</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>23.6</b>
	Usage (lbs): <b>159.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>23.6</b>
		Density (lb/gal): <b>10.63</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	7.2
100-42-5	Styrene	23.24%	0.103	16.4

636  
159  

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795

<b>963RK139</b> Rueben Gelcoat (963RK139)	Usage (gal): <b>28.5</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>45.4</b>
	Usage (lbs): <b>301.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>44.5</b>
		Density (lb/gal): <b>10.57</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.57%	0.045	13.5
100-42-5	Styrene	23.11%	0.103	31.0

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>89.6</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>140.8</b>
	Usage (lbs): <b>951.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>140.8</b>
		Density (lb/gal): <b>10.61</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	42.8
100-42-5	Styrene	23.16%	0.103	98.0

<b>963XA220</b> Armorflex Marine Clear Gelcoat (963XA220)	Usage (gal): <b>54.6</b>	VOC Content (wt%): <b>0.449</b>	VOCs (lbs): <b>120.2</b>
	Usage (lbs): <b>480.0</b>	HAP Content (wt%): <b>0.449</b>	HAPs (lbs): <b>120.2</b>
		Density (lb/gal): <b>8.79</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	10.25%	0.083	39.6
100-42-5	Styrene	34.63%	0.168	80.6

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **November 2007**

✓ 965BK183 Black VE Tooling (965BK183)	Usage (gal):	48.7	VOC Content (wt%):	0.409	VOCs (lbs):	99.0
	Usage (lbs):	449.0	HAP Content (wt%):	0.358	HAPs (lbs):	79.9
			Density (lb/gal):	9.23		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	35.84%	0.178	79.9		
0 449 0 <hr/> 449						
✓ 967BK150 Black Barrier Coat (967BK150)	Usage (gal):	832.4	VOC Content (wt%):	0.364	VOCs (lbs):	1,445.0
	Usage (lbs):	8,080.0	HAP Content (wt%):	0.321	HAPs (lbs):	1,155.5
			Density (lb/gal):	9.71		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	32.14%	0.143	1,155.5		
✓ 970XJ037 Patchaid (970XJ037)	Usage (gal):	1.9	VOC Content (wt%):	0.583	VOCs (lbs):	1.9
	Usage (lbs):	16.0	HAP Content (wt%):	0.574	HAPs (lbs):	1.8
			Density (lb/gal):	8.56		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	57.40%	0.111	1.8		
✓ 991GH369 Brite Green Gelcoat (991GH369)	Usage (gal):	24.2	VOC Content (wt%):	0.325	VOCs (lbs):	40.7
	Usage (lbs):	247.0	HAP Content (wt%):	0.325	HAPs (lbs):	40.7
			Density (lb/gal):	10.22		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.62%	0.045	11.1		
100-42-5	Styrene	26.89%	0.120	29.6		
495 247 <hr/> 742						
✓ 991NH788 Brown Gelcoat (991NH788)	Usage (gal):	34.2	VOC Content (wt%):	0.318	VOCs (lbs):	59.4
	Usage (lbs):	357.0	HAP Content (wt%):	0.318	HAPs (lbs):	59.4
			Density (lb/gal):	10.45		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.23%	0.053	18.7		
100-42-5	Styrene	25.60%	0.114	40.7		
✓ Flex-Z Flex-Z 1, 2, 3, 4, 5 & 6	Usage (gal):	8.0	VOC Content (wt%):	0.900	VOCs (lbs):	42.0
	Usage (lbs):	46.7	HAP Content (wt%):	0.000	HAPs (lbs):	0.0
			Density (lb/gal):	5.84		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		
16 lbs 8 0 <hr/> 24 lbs						
✓ IPSAth IPS Adhesive & Activator	Usage (gal):	198.5	VOC Content (wt%):	0.600	VOCs (lbs):	124.1
	Usage (lbs):	1,799.8	HAP Content (wt%):	0.600	HAPs (lbs):	124.0
			Density (lb/gal):	9.07		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	60.00%	0.069	124.0		

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **November 2007**

<b>LSPK-2221</b> Polyester Resin (LSPK-2221)	Usage (gal): <b>922.2</b> Usage (lbs): <b>8,160.0</b>	VOC Content (wt%): <b>0.348</b> HAP Content (wt%): <b>0.348</b> Density (lb/gal): <b>8.85</b>	VOCs (lbs): <b>314.2</b> HAPs (lbs): <b>314.2</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 34.83%	E-Factor 0.039	HAP/TAP Lbs 314.2
<b>MA300</b> ITW Plexus Adhesive (MA300)	Usage (gal): <b>5.2</b> Usage (lbs): <b>44.7</b>	VOC Content (wt%): <b>0.600</b> HAP Content (wt%): <b>0.600</b> Density (lb/gal): <b>8.59</b>	VOCs (lbs): <b>2.2</b> HAPs (lbs): <b>2.2</b>	
CAS No 80-62-6	Chemical Methyl Methacrylate	Weight % 60.00%	E-Factor 0.048	HAP/TAP Lbs 2.2
<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	Usage (gal): <b>485.8</b> Usage (lbs): <b>3,241.0</b>	VOC Content (wt%): <b>0.100</b> HAP Content (wt%): <b>0.000</b> Density (lb/gal): <b>6.67</b>	VOCs (lbs): <b>323.6</b> HAPs (lbs): <b>0.0</b>	
CAS No	Chemical No reportable HAPs	Weight % 0.00%	E-Factor 0.000	HAP/TAP Lbs 0.0
<b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	Usage (gal): <b>24.6</b> Usage (lbs): <b>262.0</b>	VOC Content (wt%): <b>0.308</b> HAP Content (wt%): <b>0.308</b> Density (lb/gal): <b>10.63</b>	VOCs (lbs): <b>42.5</b> HAPs (lbs): <b>42.5</b>	
CAS No 80-62-6 100-42-5	Chemical Methyl Methacrylate Styrene	Weight % 6.17% 24.66%	E-Factor 0.053 0.110	HAP/TAP Lbs 13.8 28.7
<b>MBG04</b> Armorcote Vapor Blue Gelcoat (991LK123)	Usage (gal): <b>24.5</b> Usage (lbs): <b>255.0</b>	VOC Content (wt%): <b>0.305</b> HAP Content (wt%): <b>0.305</b> Density (lb/gal): <b>10.43</b>	VOCs (lbs): <b>39.3</b> HAPs (lbs): <b>39.3</b>	
CAS No 80-62-6 100-42-5	Chemical Methyl Methacrylate Styrene	Weight % 5.98% 24.56%	E-Factor 0.045 0.109	HAP/TAP Lbs 11.5 27.9
<b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	Usage (gal): <b>45.0</b> Usage (lbs): <b>479.0</b>	VOC Content (wt%): <b>0.304</b> HAP Content (wt%): <b>0.304</b> Density (lb/gal): <b>10.63</b>	VOCs (lbs): <b>77.1</b> HAPs (lbs): <b>77.1</b>	
CAS No 80-62-6 100-42-5	Chemical Methyl Methacrylate Styrene	Weight % 6.07% 24.37%	E-Factor 0.053 0.109	HAP/TAP Lbs 25.1 52.0
<b>MBG06</b> Armorcote White Gelcoat (991WH423)	Usage (gal): <b>630.5</b> Usage (lbs): <b>6,957.0</b>	VOC Content (wt%): <b>0.329</b> HAP Content (wt%): <b>0.329</b> Density (lb/gal): <b>11.03</b>	VOCs (lbs): <b>1,181.5</b> HAPs (lbs): <b>1,181.3</b>	
CAS No 80-62-6 100-42-5	Chemical Methyl Methacrylate Styrene	Weight % 6.50% 26.36%	E-Factor 0.053 0.117	HAP/TAP Lbs 365.2 816.1

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **November 2007**

**MBG07**

Armorcote CA Yellow Gelcoat  
(991YK125)

Usage (gal):	<b>49.3</b>
Usage (lbs):	<b>510.0</b>

VOC Content (wt%):	<b>0.306</b>
HAP Content (wt%):	<b>0.306</b>
Density (lb/gal):	<b>10.35</b>

VOCs (lbs):	<b>82.3</b>
HAPs (lbs):	<b>82.3</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.17%	0.053	26.8
100-42-5	Styrene	24.46%	0.109	55.5

556  
510  
0  
1066

**MBG08b**

Armorcote Sangrial Gelcoat  
(991RK118)

Usage (gal):	<b>14.6</b>
Usage (lbs):	<b>153.0</b>

VOC Content (wt%):	<b>0.308</b>
HAP Content (wt%):	<b>0.308</b>
Density (lb/gal):	<b>10.45</b>

VOCs (lbs):	<b>24.1</b>
HAPs (lbs):	<b>24.1</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.55%	0.045	6.9
100-42-5	Styrene	25.28%	0.113	17.2

**MBM01**

MEKP9 (Clear & Red)

Usage (gal):	<b>177.9</b>
Usage (lbs):	<b>1,632.0</b>

VOC Content (wt%):	<b>0.450</b>
HAP Content (wt%):	<b>0.430</b>
Density (lb/gal):	<b>9.17</b>

VOCs (lbs):	<b>60.7</b>
HAPs (lbs):	<b>28.1</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
131-11-3	Dimethyl Phthalate	43.00%	0.017	28.1

**MBM02**

Aquawash (095-0040)

Usage (gal):	<b>54.9</b>
Usage (lbs):	<b>467.0</b>

VOC Content (wt%):	<b>0.008</b>
HAP Content (wt%):	<b>0.000</b>
Density (lb/gal):	<b>8.51</b>

VOCs (lbs):	<b>3.8</b>
HAPs (lbs):	<b>0.0</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

31.7 gal  
54.9 gal  
0  
86.6 gal

**MBP01**

EZ Bond Adhesive  
(5787W00077)

Usage (gal):	<b>138.4</b>
Usage (lbs):	<b>1,050.0</b>

VOC Content (wt%):	<b>0.300</b>
HAP Content (wt%):	<b>0.300</b>
Density (lb/gal):	<b>7.59</b>

VOCs (lbs):	<b>39.7</b>
HAPs (lbs):	<b>39.7</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.038	39.7

**MBR02a**

Resin (LHPC4121)

Usage (gal):	<b>8,523.4</b>
Usage (lbs):	<b>79,260.0</b>

VOC Content (wt%):	<b>0.326</b>
HAP Content (wt%):	<b>0.316</b>
Density (lb/gal):	<b>9.30</b>

VOCs (lbs):	<b>2,767.8</b>
HAPs (lbs):	<b>2,679.0</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	31.62%	0.034	2,679.0

79,180  
79,260  
0  
158,440

**VSXH-2200**

VE Resin (VSXH-2200)

Usage (gal):	<b>437.5</b>
Usage (lbs):	<b>4,000.0</b>

VOC Content (wt%):	<b>0.364</b>
HAP Content (wt%):	<b>0.349</b>
Density (lb/gal):	<b>9.14</b>

VOCs (lbs):	<b>215.9</b>
HAPs (lbs):	<b>154.0</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	34.89%	0.039	154.0

1,000  
4,000  
0  
5,000

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: November 2007

*90% per MSDS  
(by wt)*

<b>Zyv GP</b>	Usage (gal): <b>18.0</b>	VOC Content (wt%): <b>0.900</b>	VOCs (lbs): <b>118.4</b>
✓ Zyvox Sealer GP	Usage (lbs): <b>131.5</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>7.31</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000

0  
131.5  
0  

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131.5

	Month (lbs)	Month (tons)
VOCs:	7,554	3.78
HAPs:	6,573	3.29

**Malibu Boats Merced Plant: Usage & Emissions****Month of: November 2007**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	28	0.01
80-62-6	Methyl Methacrylate	722	0.36
	No reportable HAPs	0	0.00
100-42-5	Styrene	5,823	2.91
	<b>Total</b>	<b>6,573</b>	<b>3.29</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	46,994	0	0	0.00
Total:		46,994		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	9,773	159	1,554	0.78
963LK188	Midnight Blue Gelcoat (963LK188)	4,071	159	647	0.32
963RK139	Rueben Gelcoat (963RK139)	2,476	159	394	0.20
963RK140	Regal Gelcoat (963RK140)	10,170	159	1,617	0.81
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,613	159	574	0.29
967BK150	Black Barrier Coat (967BK150)	40,400	159	6,424	3.21
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	2,670	159	425	0.21
991NH788	Brown Gelcoat (991NH788)	3,919	159	623	0.31
991PK105	Black Iris Gelcoat (991PK105)	285	159	45	0.02
MBG01	Black Barrier Gelcoat (967BJ244)	45,245	159	7,194	3.60
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,355	159	851	0.43
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,688	159	427	0.21
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,666	159	583	0.29
MBG03	Armorcote Black Gelcoat (991BK139)	470	159	75	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,364	159	376	0.19
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	1,605	159	255	0.13
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	778	159	124	0.06
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	5,838	159	928	0.46

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending November 2007</b>	
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MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,724	159	274	0.14
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	159	0	0.00
MBG06	Armorcote White Gelcoat (991WH423)	109,891	159	17,473	8.74
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,481	159	1,030	0.52
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,902	159	461	0.23
MBG08	Armorcote Ruben Gelcoat (991RK111)	1,940	159	308	0.15
MBG08a	Armorcote Regal Gelcoat (991RK112)	4,565	159	726	0.36
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	605	159	96	0.05
MBG08c	Armorcote Pink Gelcoat (991RK124)	205	159	33	0.02
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	14,450	159	2,298	1.15
<b>Total:</b>		<b>314,532</b>		<b>50,011</b>	<b>25.01</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	108,480	46	4,990	2.50
MBR02	Resin (LHPC3523)	573,160	46	26,365	13.18
MBR02a	Resin (LHPC4121)	642,780	46	29,568	14.78
VLER-4000	VE Resin (VLER-4000)	31,650	46	1,456	0.73
VSXH-2200	VE Resin (VSXH-2200)	5,000	46	230	0.12
<b>Total:</b>		<b>1,361,070</b>		<b>62,609</b>	<b>31.30</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,368	214	293	0.15
MBG0a	Polycor HG Green Tooling (945GA104)	695	214	149	0.07
<b>Total:</b>		<b>2,063</b>		<b>441</b>	<b>0.22</b>



*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	31,090	54	1,679	0.84
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		32,840		1,773	0.89

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	114,835	57.42

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	46,994	0.000	0.0	0
Total:		46,994			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	9,773	0.362	181.8	1,777
963LK188	Midnight Blue Gelcoat (963LK188)	4,071	0.291	126.1	513
963RK139	Rueben Gelcoat (963RK139)	2,476	0.287	123.0	305
963RK140	Regal Gelcoat (963RK140)	10,170	0.288	123.7	1,258
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,613	0.449	260.3	941
967BK150	Black Barrier Coat (967BK150)	40,400	0.321	148.8	6,011
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	2,670	0.325	151.7	405
991NH788	Brown Gelcoat (991NH788)	3,919	0.318	146.4	574
991PK105	Black Iris Gelcoat (991PK105)	285	0.312	141.8	40
MBG01	Black Barrier Gelcoat (967BJ244)	45,245	0.318	146.0	6,604
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,355	0.308	138.8	743
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,688	0.320	147.8	397
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,666	0.328	153.7	563
MBG03	Armorcote Black Gelcoat (991BK139)	470	0.326	152.5	72

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: November 2007**

MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,364	0.305	136.6	323
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	1,605	0.322	149.4	240
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	778	0.319	147.0	114
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	5,838	0.304	135.9	793
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,724	0.302	133.7	231
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	0.310	140.2	0
MBG06	Armorcote White Gelcoat (991WH423)	109,891	0.329	154.4	16,972
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,481	0.306	137.3	890
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,902	0.306	137.1	398
MBG08	Armorcote Ruben Gelcoat (991RK111)	1,940	0.309	139.7	271
MBG08a	Armorcote Regal Gelcoat (991RK112)	4,565	0.311	140.5	641
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	605	0.308	138.8	84
MBG08c	Armorcote Pink Gelcoat (991RK124)	205	0.314	143.2	29
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	14,450	0.416	229.5	3,316
<b>Total:</b>		<b>314,532</b>			<b>50,509</b>
Weighted Average MACT Model Point Value:		160.6			
Intermediate MACT Model Point Value (lbs):		50,509			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	108,480	0.348	45.1	4,892

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: November 2007**

MBR02	Resin (LHPC3523)	573,160	0.316	36.2	20,740
MBR02a	Resin (LHPC4121)	642,780	0.316	36.2	23,260
VLER-4000	VE Resin (VLER-4000)	31,650	0.320	37.2	1,177
VSXH-2200	VE Resin (VSXH-2200)	5,000	0.349	45.3	226
<b>Total:</b>		<b>1,361,070</b>			<b>50,295</b>
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		50,295			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,368	0.358	178.7	244
MBG0a	Polycor HG Green Tooling (945GA104)	695	0.472	283.7	197
<b>Total:</b>		<b>2,063</b>			<b>442</b>
Weighted Average MACT Model Point Value:		214.0			
Intermediate MACT Model Point Value (lbs):		442			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	31,090	0.280	27.4	853
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
<b>Total:</b>		<b>32,840</b>			<b>1,009</b>
Weighted Average MACT Model Point Value:		30.7			
Intermediate MACT Model Point Value (lbs):		1,009			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	102,255	51.13

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending: December 2007</b>
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Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **December 2007**

Product ID	Product Name	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)
100RH540	Regal Gelcoat (100RH540)	62.7	568.0	0.359	0.320	9.05	109.5	88.2
✓	CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
	80-62-6	Methyl Methacrylate	3.83%	0.030	17.0			
	100-42-5	Styrene	28.16%	0.125	71.2			
100YH895	California Yellow Gelcoat (100YH895)	76.7	693.0	0.361	0.323	9.04	133.9	108.5
✓	CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
	80-62-6	Methyl Methacrylate	3.88%	0.030	20.8			
	100-42-5	Styrene	28.46%	0.127	87.8			
1055	Tooling Resin (1055)	191.8	2,000.0	0.280	0.280	10.43	59.9	59.9
✓	CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
	80-62-6	Methyl Methacrylate	1.00%	0.001	2.1			
	100-42-5	Styrene	27.00%	0.029	57.8			
953LK160	Dark Blue Gelcoat (953LK160)	32.2	315.0	0.362	0.362	9.77	59.6	59.6
✓	CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
	80-62-6	Methyl Methacrylate	8.86%	0.068	21.3			
	100-42-5	Styrene	27.37%	0.122	38.4			
963RK139	Rueben Gelcoat (963RK139)	19.3	204.0	0.290	0.287	10.57	30.8	30.2
✓	CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
	80-62-6	Methyl Methacrylate	5.57%	0.045	9.2			
	100-42-5	Styrene	23.11%	0.103	21.0			
963RK140	Regal Gelcoat (963RK140)	39.0	414.0	0.288	0.288	10.61	61.3	61.3
✓	CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
	80-62-6	Methyl Methacrylate	5.62%	0.045	18.6			
	100-42-5	Styrene	23.16%	0.103	42.7			

0  
0  
568  
568

0  
0  
693  
693

1500  
3000  
2000  
6500

1420  
155  
315  
1890

400  
301  
204  
905

1574  
951  
414  
2,939

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **December 2007**

✓ 963XA220 Armorflex Marine Clear Gelcoat (963XA220)	Usage (gal):	68.3	VOC Content (wt%):	0.449	VOCs (lbs):	150.3
	Usage (lbs):	600.0	HAP Content (wt%):	0.449	HAPs (lbs):	150.3
			Density (lb/gal):	8.79		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	10.25%	0.083	49.5		
100-42-5	Styrene	34.63%	0.168	100.8		
<div style="text-align: right;"> <p>0 480 600 <hr/>1080</p> </div>						
✓ 967BK150 Black Barrier Coat (967BK150)	Usage (gal):	416.2	VOC Content (wt%):	0.364	VOCs (lbs):	722.5
	Usage (lbs):	4,040.0	HAP Content (wt%):	0.321	HAPs (lbs):	577.7
			Density (lb/gal):	9.71		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	32.14%	0.143	577.7		
<div style="text-align: right;"> <p>8080 8080 4040 <hr/>20,200</p> </div>						
✓ 970XJ037 Patchaid (970XJ037)	Usage (gal):	1.9	VOC Content (wt%):	0.583	VOCs (lbs):	1.9
	Usage (lbs):	16.0	HAP Content (wt%):	0.574	HAPs (lbs):	1.8
			Density (lb/gal):	8.56		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	57.40%	0.111	1.8		
<div style="text-align: right;"> <p>16 16 16 <hr/>48</p> </div>						
✓ 991GH359 Polo Green Gelcoat (991GH359)	Usage (gal):	14.9	VOC Content (wt%):	0.328	VOCs (lbs):	25.4
	Usage (lbs):	153.0	HAP Content (wt%):	0.328	HAPs (lbs):	25.4
			Density (lb/gal):	10.24		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.54%	0.045	6.9		
100-42-5	Styrene	27.21%	0.121	18.5		
<div style="text-align: right;"> <p>0 0 153 <hr/>153</p> </div>						
✓ 991NH788 Brown Gelcoat (991NH788)	Usage (gal):	14.9	VOC Content (wt%):	0.318	VOCs (lbs):	26.0
	Usage (lbs):	156.0	HAP Content (wt%):	0.318	HAPs (lbs):	26.0
			Density (lb/gal):	10.45		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.23%	0.053	8.2		
100-42-5	Styrene	25.60%	0.114	17.8		
<div style="text-align: right;"> <p>0 357 156 <hr/>513</p> </div>						
✓ ADH4011 Conbond (ADH4011)	Usage (gal):	6.0	VOC Content (wt%):	0.549	VOCs (lbs):	23.4
	Usage (lbs):	42.7	HAP Content (wt%):	0.000	HAPs (lbs):	0.0
			Density (lb/gal):	7.11		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		
<div style="text-align: right;"> <p>6 gal 0 gal 6 gal <hr/>12 gal</p> </div>						
✓ IPSAdh IPS Adhesive & Activator	Usage (gal):	392.3	VOC Content (wt%):	0.600	VOCs (lbs):	245.2
	Usage (lbs):	3,556.3	HAP Content (wt%):	0.600	HAPs (lbs):	245.0
			Density (lb/gal):	9.07		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	60.00%	0.069	245.0		
<div style="text-align: right;"> <p>227.2 gal 1799.8 gal 3556.3 gal <hr/>5583.3</p> </div>						

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **December 2007**

Product Name	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)	CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
<b>LSPK-2221</b> Polyester Resin (LSPK-2221)	759.4	6,720.0	0.348	0.348	8.85	258.7	258.7	100-42-5	Styrene	34.83%	0.039	258.7
<b>MA300</b> ITW Plexus Adhesive (MA300)	2.2	19.2	0.600	0.600	8.59	0.9	0.9	80-62-6	Methyl Methacrylate	60.00%	0.048	0.9
<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	485.8	3,241.0	0.100	0.000	6.67	323.6	0.0		No reportable HAPs	0.00%	0.000	0.0
<b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	44.6	474.0	0.308	0.308	10.63	76.9	76.9	80-62-6	Methyl Methacrylate	6.17%	0.053	24.9
								100-42-5	Styrene	24.66%	0.110	52.0
<b>MBG04</b> Armorcote Vapor Blue Gelcoat (991LK123)	20.0	208.0	0.305	0.305	10.43	32.1	32.1	80-62-6	Methyl Methacrylate	5.98%	0.045	9.4
								100-42-5	Styrene	24.56%	0.109	22.7
<b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	54.5	579.0	0.304	0.304	10.63	93.2	93.2	80-62-6	Methyl Methacrylate	6.07%	0.053	30.4
								100-42-5	Styrene	24.37%	0.109	62.8
<b>MBG06</b> Armorcote White Gelcoat (991WH423)	630.8	6,960.0	0.329	0.329	11.03	1,182.0	1,181.8	80-62-6	Methyl Methacrylate	6.50%	0.053	365.4
								100-42-5	Styrene	26.36%	0.117	816.4

9600  
8160  
6720  
            
24,480

2.4 gal  
5.2 gal  
2.2 gal  
            
9.8 gal

gal Lbs  
485.8 3241  
485.8 3241  
485.8 3241  
            
1457.4 9,723

100  
262  
474  
            
836

102  
255  
208  
            
565

424  
477  
579  
            
1,482

9280  
6957  
6960  
            
23,197



**Mallbu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: December 2007

<b>MBG08b</b> ✓ Armorcote Sangrial Gelcoat (991RK118)	Usage (gal):	9.7	VOC Content (wt%):	0.308	VOCs (lbs):	15.9
	Usage (lbs):	101.0	HAP Content (wt%):	0.308	HAPs (lbs):	15.9
			Density (lb/gal):	10.45		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.55%	0.045	4.5		
100-42-5	Styrene	25.28%	0.113	11.4		

97  
153  
101  

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351

<b>MBM01</b> ✓ MEKP9 (Clear & Red)	Usage (gal):	205.8	VOC Content (wt%):	0.450	VOCs (lbs):	70.2
	Usage (lbs):	1,888.0	HAP Content (wt%):	0.430	HAPs (lbs):	32.5
			Density (lb/gal):	9.17		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
131-11-3	Dimethyl Phthalate	43.00%	0.017	32.5		

3064  
1632  
1888  

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6,584

<b>MBP01</b> ✓ EZ Bond Adhesive (5787W00077)	Usage (gal):	92.2	VOC Content (wt%):	0.300	VOCs (lbs):	26.5
	Usage (lbs):	700.0	HAP Content (wt%):	0.300	HAPs (lbs):	26.5
			Density (lb/gal):	7.59		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	30.00%	0.038	26.5		

138.4 gal  
138.4 gal  
92.2 gal  

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369.0 gal

<b>MBR02</b> ✓ Resin (LHPC3523)	Usage (gal):	4,305.8	VOC Content (wt%):	0.326	VOCs (lbs):	1,398.6
	Usage (lbs):	40,040.0	HAP Content (wt%):	0.316	HAPs (lbs):	1,353.4
			Density (lb/gal):	9.30		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	31.62%	0.034	1,353.4		

0  
40,040  

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40,040

	Month (lbs)	Month (tons)
VOCs:	5,128	2.56
HAPs:	4,506	2.25

**Malibu Boats Merced Plant: Usage & Emissions****Month of: December 2007**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	32	0.02
80-62-6	Methyl Methacrylate	834	0.42
	No reportable HAPs	0	0.00
100-42-5	Styrene	3,639	1.82
	<b>Total</b>	<b>4,506</b>	<b>2.25</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	46,184	0	0	0.00
Total:		46,184		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100RH540	Regal Gelcoat (100RH540)	568	159	90	0.05
100YH895	California Yellow Gelcoat (100YH895)	693	159	110	0.06
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	10,088	159	1,604	0.80
963LK188	Midnight Blue Gelcoat (963LK188)	4,071	159	647	0.32
963RK139	Rueben Gelcoat (963RK139)	2,680	159	426	0.21
963RK140	Regal Gelcoat (963RK140)	10,584	159	1,683	0.84
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,983	159	633	0.32
967BK150	Black Barrier Coat (967BK150)	44,440	159	7,066	3.53
991GH359	Polo Green Gelcoat (991GH359)	357	159	57	0.03
991GH369	Brite Green Gelcoat (991GH369)	2,564	159	408	0.20
991NH788	Brown Gelcoat (991NH788)	3,907	159	621	0.31
991PK105	Black Iris Gelcoat (991PK105)	285	159	45	0.02
MBG01	Black Barrier Gelcoat (967BJ244)	39,855	159	6,337	3.17
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,509	159	876	0.44
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,526	159	402	0.20
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,359	159	534	0.27
MBG03	Armorcote Black Gelcoat (991BK139)	293	159	47	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,263	159	360	0.18
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	987	159	157	0.08
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit				12 Months Ending December 2007		
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Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,148	159	978	0.49
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,421	159	226	0.11
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	159	0	0.00
MBG06	Armorcote White Gelcoat (991WH423)	107,904	159	17,157	8.58
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,224	159	990	0.49
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,694	159	428	0.21
MBG08	Armorcote Ruben Gelcoat (991RK111)	1,627	159	259	0.13
MBG08a	Armorcote Regal Gelcoat (991RK112)	3,838	159	610	0.31
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	650	159	103	0.05
MBG08c	Armorcote Pink Gelcoat (991RK124)	205	159	33	0.02
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	6,380	159	1,014	0.51
<b>Total:</b>		<b>302,333</b>		<b>48,071</b>	<b>24.04</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	105,120	46	4,836	2.42
MBR02	Resin (LHPC3523)	519,700	46	23,906	11.95
MBR02a	Resin (LHPC4121)	642,780	46	29,568	14.78
VLER-4000	VE Resin (VLER-4000)	27,450	46	1,263	0.63
VSXH-2200	VE Resin (VSXH-2200)	5,000	46	230	0.12
<b>Total:</b>		<b>1,300,050</b>		<b>59,802</b>	<b>29.90</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,368	214	293	0.15
MBG0a	Polycor HG Green Tooling (945GA104)	445	214	95	0.05

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending December 2007</b>
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Total:	1,813	388	0.19
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*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	28,590	54	1,544	0.77
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		30,340		1,638	0.82

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	109,900	54.95

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	46,184	0.000	0.0	0
Total:		46,184			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100RH540	Regal Gelcoat (100RH540)	568	0.320	147.6	84
100YH895	California Yellow Gelcoat (100YH895)	693	0.323	150.3	104
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	10,088	0.362	181.8	1,834
963LK188	Midnight Blue Gelcoat (963LK188)	4,071	0.291	126.1	513
963RK139	Rueben Gelcoat (963RK139)	2,680	0.287	123.0	330
963RK140	Regal Gelcoat (963RK140)	10,584	0.288	123.7	1,309
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,983	0.449	260.3	1,037
967BK150	Black Barrier Coat (967BK150)	44,440	0.321	148.8	6,612
991GH359	Polo Green Gelcoat (991GH359)	357	0.328	153.6	55
991GH369	Brite Green Gelcoat (991GH369)	2,564	0.325	151.7	389
991NH788	Brown Gelcoat (991NH788)	3,907	0.318	146.4	572
991PK105	Black Iris Gelcoat (991PK105)	285	0.312	141.8	40
MBG01	Black Barrier Gelcoat (967BJ244)	39,855	0.318	146.0	5,817
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,509	0.308	138.8	765
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,526	0.320	147.8	373

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: December 2007</b>	
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MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,359	0.328	153.7	516
MBG03	Armorcote Black Gelcoat (991BK139)	293	0.326	152.5	45
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,263	0.305	136.6	309
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	987	0.322	149.4	147
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,148	0.304	135.9	835
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,421	0.302	133.7	190
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	0.310	140.2	0
MBG06	Armorcote White Gelcoat (991WH423)	107,904	0.329	154.4	16,665
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,224	0.306	137.3	855
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,694	0.306	137.1	369
MBG08	Armorcote Ruben Gelcoat (991RK111)	1,627	0.309	139.7	227
MBG08a	Armorcote Regal Gelcoat (991RK112)	3,838	0.311	140.5	539
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	650	0.308	138.8	90
MBG08c	Armorcote Pink Gelcoat (991RK124)	205	0.314	143.2	29
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	6,380	0.416	229.5	1,464
<b>Total:</b>		<b>302,333</b>			<b>48,097</b>
Weighted Average MACT Model Point Value:		159.1			
Intermediate MACT Model Point Value (lbs):		48,097			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	105,120	0.348	45.1	4,741
MBR02	Resin (LHPC3523)	519,700	0.316	36.2	18,806
MBR02a	Resin (LHPC4121)	642,780	0.316	36.2	23,260
VLER-4000	VE Resin (VLER-4000)	27,450	0.320	37.2	1,021
VSXH-2200	VE Resin (VSXH-2200)	5,000	0.349	45.3	226
Total:		1,300,050			48,053
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		48,053			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,368	0.358	178.7	244
MBG0a	Polycor HG Green Tooling (945GA104)	445	0.472	283.7	126
Total:		1,813			371
Weighted Average MACT Model Point Value:		204.4			
Intermediate MACT Model Point Value (lbs):		371			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	28,590	0.280	27.4	785
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		30,340			940
Weighted Average MACT Model Point Value:		31.0			
Intermediate MACT Model Point Value (lbs):		940			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	97,461	48.73



**Malibu Boats Merced Plant: Monthly & 12 Month Rolling Emissions Summary** Year Ending: **January 2008**

Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **January 2008**

<b>100BK201</b>	Usage (gal): <b>154.9</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>204.4</b>
Jet Black Gelcoat (100BK201)	Usage (lbs): <b>1,410.0</b>	HAP Content (wt%): <b>0.298</b>	HAPs (lbs): <b>196.9</b>
		Density (lb/gal): <b>9.11</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.80%	0.015	21.1
100-42-5	Styrene	28.01%	0.125	175.7

<b>100RH540</b>	Usage (gal): <b>63.2</b>	VOC Content (wt%): <b>0.359</b>	VOCs (lbs): <b>110.3</b>
Regal Gelcoat (100RH540)	Usage (lbs): <b>572.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>88.8</b>
		Density (lb/gal): <b>9.05</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	3.83%	0.030	17.2
100-42-5	Styrene	28.16%	0.125	71.7

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<b>100YH895</b>	Usage (gal): <b>87.6</b>	VOC Content (wt%): <b>0.361</b>	VOCs (lbs): <b>153.1</b>
California Yellow Gelcoat (100YH895)	Usage (lbs): <b>792.0</b>	HAP Content (wt%): <b>0.323</b>	HAPs (lbs): <b>124.1</b>
		Density (lb/gal): <b>9.04</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	3.88%	0.030	23.8
100-42-5	Styrene	28.46%	0.127	100.3

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<b>963LK160</b>	Usage (gal): <b>73.9</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>125.3</b>
Dark Blue Gelcoat (963LK160)	Usage (lbs): <b>783.0</b>	HAP Content (wt%): <b>0.286</b>	HAPs (lbs): <b>114.6</b>
		Density (lb/gal): <b>10.60</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.77%	0.045	35.2
100-42-5	Styrene	22.78%	0.101	79.4

<b>963LK188</b>	Usage (gal): <b>73.2</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>115.5</b>
Midnight Blue Gelcoat (963LK188)	Usage (lbs): <b>778.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>115.5</b>
		Density (lb/gal): <b>10.63</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	35.0
100-42-5	Styrene	23.24%	0.103	80.4

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<b>963RK139</b>	Usage (gal): <b>23.1</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>36.8</b>
Rueben Gelcoat (963RK139)	Usage (lbs): <b>244.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>36.1</b>
		Density (lb/gal): <b>10.57</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.57%	0.045	11.0
100-42-5	Styrene	23.11%	0.103	25.1

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**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **January 2008**

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>199.3</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>313.0</b>
	Usage (lbs): <b>2,114.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>313.0</b>
		Density (lb/gal): <b>10.61</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	95.1
100-42-5	Styrene	23.16%	0.103	217.9

<b>963XA221</b> Marine Clear Gelcoat (963XA221)	Usage (gal): <b>18.2</b>	VOC Content (wt%): <b>0.453</b>	VOCs (lbs): <b>39.7</b>
	Usage (lbs): <b>160.0</b>	HAP Content (wt%): <b>0.447</b>	HAPs (lbs): <b>38.9</b>
		Density (lb/gal): <b>8.78</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	10.00%	0.075	12.0
100-42-5	Styrene	34.73%	0.168	26.9

<b>965BK183</b> Black VE Tooling (965BK183)	Usage (gal): <b>43.9</b>	VOC Content (wt%): <b>0.409</b>	VOCs (lbs): <b>89.3</b>
	Usage (lbs): <b>405.0</b>	HAP Content (wt%): <b>0.358</b>	HAPs (lbs): <b>72.1</b>
		Density (lb/gal): <b>9.23</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	35.84%	0.178	72.1

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<b>967BK150</b> Black Barrier Coat (967BK150)	Usage (gal): <b>1,248.5</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>2,167.4</b>
	Usage (lbs): <b>12,120.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>1,733.2</b>
		Density (lb/gal): <b>9.71</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.14%	0.143	1,733.2

<b>970XJ037</b> Patchaid (970XJ037)	Usage (gal): <b>0.9</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>1.0</b>
	Usage (lbs): <b>8.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>0.9</b>
		Density (lb/gal): <b>8.56</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	57.40%	0.111	0.9

<b>ADH4011</b> Conbond (ADH4011)	Usage (gal): <b>3.8</b>	VOC Content (wt%): <b>0.549</b>	VOCs (lbs): <b>14.6</b>
	Usage (lbs): <b>26.7</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>7.11</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

<b>IPSAdh</b> IPS Adhesive & Activator	Usage (gal): <b>212.9</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>133.1</b>
	Usage (lbs): <b>1,929.7</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>132.9</b>
		Density (lb/gal): <b>9.07</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.069	132.9

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **January 2008**

✓ <b>LSPK-2221</b> Polyester Resin (LSPK-2221)	Usage (gal):	<b>1,091.7</b>	VOC Content (wt%):	<b>0.348</b>	VOCs (lbs):	<b>371.9</b>
	Usage (lbs):	<b>9,660.0</b>	HAP Content (wt%):	<b>0.348</b>	HAPs (lbs):	<b>371.9</b>
			Density (lb/gal):	<b>8.85</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	34.83%	0.039	371.9		
✓ <b>MA300</b> ITW Plexus Adhesive (MA300)	Usage (gal):	<b>1.6</b>	VOC Content (wt%):	<b>0.600</b>	VOCs (lbs):	<b>0.7</b>
	Usage (lbs):	<b>13.6</b>	HAP Content (wt%):	<b>0.600</b>	HAPs (lbs):	<b>0.7</b>
			Density (lb/gal):	<b>8.59</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	60.00%	0.048	0.7		
✓ <b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	Usage (gal):	<b>728.6</b>	VOC Content (wt%):	<b>0.100</b>	VOCs (lbs):	<b>485.3</b>
	Usage (lbs):	<b>4,861.5</b>	HAP Content (wt%):	<b>0.000</b>	HAPs (lbs):	<b>0.0</b>
			Density (lb/gal):	<b>6.67</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		
✓ <b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	Usage (gal):	<b>68.7</b>	VOC Content (wt%):	<b>0.308</b>	VOCs (lbs):	<b>118.4</b>
	Usage (lbs):	<b>730.0</b>	HAP Content (wt%):	<b>0.308</b>	HAPs (lbs):	<b>118.4</b>
			Density (lb/gal):	<b>10.63</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.17%	0.053	38.3		
100-42-5	Styrene	24.66%	0.110	80.1		
✓ <b>MBG02b</b> Armorcote Charcoal Gelcoat (991AK140)	Usage (gal):	<b>72.4</b>	VOC Content (wt%):	<b>0.328</b>	VOCs (lbs):	<b>126.9</b>
	Usage (lbs):	<b>746.0</b>	HAP Content (wt%):	<b>0.328</b>	HAPs (lbs):	<b>126.9</b>
			Density (lb/gal):	<b>10.30</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.33%	0.053	39.2		
100-42-5	Styrene	26.43%	0.118	87.7		
✓ <b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	Usage (gal):	<b>10.0</b>	VOC Content (wt%):	<b>0.304</b>	VOCs (lbs):	<b>17.1</b>
	Usage (lbs):	<b>106.0</b>	HAP Content (wt%):	<b>0.304</b>	HAPs (lbs):	<b>17.1</b>
			Density (lb/gal):	<b>10.63</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.07%	0.053	5.6		
100-42-5	Styrene	24.37%	0.109	11.5		
✓ <b>MBG06</b> Armorcote White Gelcoat (991WH423)	Usage (gal):	<b>576.0</b>	VOC Content (wt%):	<b>0.329</b>	VOCs (lbs):	<b>1,079.4</b>
	Usage (lbs):	<b>6,356.0</b>	HAP Content (wt%):	<b>0.329</b>	HAPs (lbs):	<b>1,079.2</b>
			Density (lb/gal):	<b>11.03</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.50%	0.053	333.7		
100-42-5	Styrene	26.36%	0.117	745.6		

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**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **January 2008**

**MBG07**

✓  
Armorcote CA Yellow Gelcoat  
(991YK125)

Usage (gal):	<b>72.7</b>
Usage (lbs):	<b>752.0</b>

VOC Content (wt%):	<b>0.306</b>
HAP Content (wt%):	<b>0.306</b>
Density (lb/gal):	<b>10.35</b>

VOCs (lbs):	<b>121.3</b>
HAPs (lbs):	<b>121.3</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.17%	0.053	39.5
100-42-5	Styrene	24.46%	0.109	81.9

752  
0  
—  
752

**MBG08a**

✓  
Armorcote Regal Gelcoat  
(991RK112)

Usage (gal):	<b>52.6</b>
Usage (lbs):	<b>540.0</b>

VOC Content (wt%):	<b>0.311</b>
HAP Content (wt%):	<b>0.311</b>
Density (lb/gal):	<b>10.26</b>

VOCs (lbs):	<b>85.4</b>
HAPs (lbs):	<b>85.4</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	24.3
100-42-5	Styrene	25.43%	0.113	61.1

540  
0  
—  
540

**MBG08b**

✓  
Armorcote Sangrial Gelcoat  
(991RK118)

Usage (gal):	<b>8.6</b>
Usage (lbs):	<b>90.0</b>

VOC Content (wt%):	<b>0.308</b>
HAP Content (wt%):	<b>0.308</b>
Density (lb/gal):	<b>10.45</b>

VOCs (lbs):	<b>14.2</b>
HAPs (lbs):	<b>14.2</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.55%	0.045	4.0
100-42-5	Styrene	25.28%	0.113	10.1

**MBM01**

✓  
MEKP9 (Clear & Red)

Usage (gal):	<b>300.0</b>
Usage (lbs):	<b>2,752.0</b>

VOC Content (wt%):	<b>0.450</b>
HAP Content (wt%):	<b>0.430</b>
Density (lb/gal):	<b>9.17</b>

VOCs (lbs):	<b>102.4</b>
HAPs (lbs):	<b>47.3</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
131-11-3	Dimethyl Phthalate	43.00%	0.017	47.3

**MBP01**

✓  
EZ Bond Adhesive  
(5787W00077)

Usage (gal):	<b>92.2</b>
Usage (lbs):	<b>700.0</b>

VOC Content (wt%):	<b>0.300</b>
HAP Content (wt%):	<b>0.300</b>
Density (lb/gal):	<b>7.59</b>

VOCs (lbs):	<b>26.5</b>
HAPs (lbs):	<b>26.5</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.038	26.5

**MBR02**

✓  
Resin (LHPC3523)

Usage (gal):	<b>17,051.1</b>
Usage (lbs):	<b>158,560.0</b>

VOC Content (wt%):	<b>0.326</b>
HAP Content (wt%):	<b>0.316</b>
Density (lb/gal):	<b>9.30</b>

VOCs (lbs):	<b>5,538.5</b>
HAPs (lbs):	<b>5,359.3</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	31.62%	0.034	5,359.3

**VSXH-2200**

✓  
VE Resin (VSXH-2200)

Usage (gal):	<b>109.4</b>
Usage (lbs):	<b>1,000.0</b>

VOC Content (wt%):	<b>0.364</b>
HAP Content (wt%):	<b>0.349</b>
Density (lb/gal):	<b>9.14</b>

VOCs (lbs):	<b>54.0</b>
HAPs (lbs):	<b>38.5</b>

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	34.89%	0.039	38.5

1,000  
0  
—  
1,000

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **January 2008**

<b>Zyv SC</b> Zyvax Surface Cleaner	Usage (gal):	<b>2.0</b>	VOC Content (wt%):	<b>1.000</b>	VOCs (lbs):	<b>14.1</b>
	Usage (lbs):	<b>14.1</b>	HAP Content (wt%):	<b>0.500</b>	HAPs (lbs):	<b>7.0</b>
			Density (lb/gal):	<b>7.05</b>		

✓	CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	108-88-3	Toluene	50.00%	0.500	7.0

	Month (lbs)	Month (tons)
VOCs:	11,660	5.83
HAPs:	10,381	5.19

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **January 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	47	0.02
80-62-6	Methyl Methacrylate	869	0.43
	No reportable HAPs	0	0.00
100-42-5	Styrene	9,458	4.73
108-88-3	Toluene	7	0.00
	<b>Total</b>	<b>10,381</b>	<b>5.19</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	49,055	0	0	0.00
Total:		49,055		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	1,410	159	224	0.11
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	10,088	159	1,604	0.80
963LK160	Dark Blue Gelcoat (963LK160)	783	159	124	0.06
963LK188	Midnight Blue Gelcoat (963LK188)	4,849	159	771	0.39
963RK139	Rueben Gelcoat (963RK139)	2,924	159	465	0.23
963RK140	Regal Gelcoat (963RK140)	12,698	159	2,019	1.01
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,456	159	550	0.27
963XA221	Marine Clear Gelcoat (963XA221)	160	159	25	0.01
967BK150	Black Barrier Coat (967BK150)	56,560	159	8,993	4.50
991GH359	Polo Green Gelcoat (991GH359)	357	159	57	0.03
991GH369	Brite Green Gelcoat (991GH369)	2,057	159	327	0.16
991NH788	Brown Gelcoat (991NH788)	3,283	159	522	0.26
991PK105	Black Iris Gelcoat (991PK105)	285	159	45	0.02
MBG01	Black Barrier Gelcoat (967BJ244)	31,775	159	5,052	2.53
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,233	159	832	0.42
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,917	159	305	0.15
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,462	159	550	0.28
MBG03	Armorcote Black Gelcoat (991BK139)	93	159	15	0.01
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,159	159	343	0.17



<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: January 2008</b>
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	514	159	82	0.04
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	5,022	159	798	0.40
MBG05a	Armorcote Platinum Gelcoat (991NK124)	965	159	153	0.08
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	159	0	0.00
MBG06	Armorcote White Gelcoat (991WH423)	103,290	159	16,423	8.21
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,159	159	979	0.49
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,145	159	341	0.17
MBG08	Armorcote Ruben Gelcoat (991RK111)	825	159	131	0.07
MBG08a	Armorcote Regal Gelcoat (991RK112)	3,367	159	535	0.27
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	490	159	78	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	103	159	16	0.01
<b>Total:</b>		<b>294,163</b>		<b>46,772</b>	<b>23.39</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	108,080	46	4,972	2.49
MBR02	Resin (LHPC3523)	561,980	46	25,851	12.93
MBR02a	Resin (LHPC4121)	642,780	46	29,568	14.78
VLER-4000	VE Resin (VLER-4000)	23,850	46	1,097	0.55
VSXH-2200	VE Resin (VSXH-2200)	6,000	46	276	0.14
<b>Total:</b>		<b>1,342,690</b>		<b>61,764</b>	<b>30.88</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,773	214	379	0.19
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: January 2008</b>
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Total:	1,818	389	0.19
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*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	24,190	54	1,306	0.65
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		25,940		1,401	0.70

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	110,325	55.16

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	49,055	0.000	0.0	0
Total:		49,055			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	1,410	0.298	131.2	185
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	10,088	0.362	181.8	1,834
963LK160	Dark Blue Gelcoat (963LK160)	783	0.286	122.1	96
963LK188	Midnight Blue Gelcoat (963LK188)	4,849	0.291	126.1	612
963RK139	Rueben Gelcoat (963RK139)	2,924	0.287	123.0	360
963RK140	Regal Gelcoat (963RK140)	12,698	0.288	123.7	1,571
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,456	0.449	260.3	900
963XA221	Marine Clear Gelcoat (963XA221)	160	0.447	258.9	41
967BK150	Black Barrier Coat (967BK150)	56,560	0.321	148.8	8,416
991GH359	Polo Green Gelcoat (991GH359)	357	0.328	153.6	55
991GH369	Brite Green Gelcoat (991GH369)	2,057	0.325	151.7	312
991NH788	Brown Gelcoat (991NH788)	3,283	0.318	146.4	481
991PK105	Black Iris Gelcoat (991PK105)	285	0.312	141.8	40
MBG01	Black Barrier Gelcoat (967BJ244)	31,775	0.318	146.0	4,638

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: January 2008</b>	
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MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,233	0.308	138.8	726
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,917	0.320	147.8	283
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,462	0.328	153.7	532
MBG03	Armorcote Black Gelcoat (991BK139)	93	0.326	152.5	14
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,159	0.305	136.6	295
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	514	0.322	149.4	77
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	5,022	0.304	135.9	682
MBG05a	Armorcote Platinum Gelcoat (991NK124)	965	0.302	133.7	129
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	0.310	140.2	0
MBG06	Armorcote White Gelcoat (991WH423)	103,290	0.329	154.4	15,953
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,159	0.306	137.3	846
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,145	0.306	137.1	294
MBG08	Armorcote Ruben Gelcoat (991RK111)	825	0.309	139.7	115
MBG08a	Armorcote Regal Gelcoat (991RK112)	3,367	0.311	140.5	473
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	490	0.308	138.8	68
MBG08c	Armorcote Pink Gelcoat (991RK124)	103	0.314	143.2	15

Total:	294,163	46,176
Weighted Average MACT Model Point Value:	157.0	
Intermediate MACT Model Point Value (lbs):	46,176	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	108,080	0.348	45.1	4,874
MBR02	Resin (LHPC3523)	561,980	0.316	36.2	20,336
MBR02a	Resin (LHPC4121)	642,780	0.316	36.2	23,260
VLER-4000	VE Resin (VLER-4000)	23,850	0.320	37.2	887
VSXH-2200	VE Resin (VSXH-2200)	6,000	0.349	45.3	272
Total:		1,342,690			49,628
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		49,628			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,773	0.358	178.7	317
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
Total:		1,818			330
Weighted Average MACT Model Point Value:		181.3			
Intermediate MACT Model Point Value (lbs):		330			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	24,190	0.280	27.4	664
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		25,940			819
Weighted Average MACT Model Point Value:		31.6			
Intermediate MACT Model Point Value (lbs):		819			

	Pounds	Tons
Final MACT Model Point Value:	96,952	48.48

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending: February 2008</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **February 2008**

<b>100BK201</b> Jet Black Gelcoat (100BK201)	Usage (gal): <b>403.1</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>532.0</b>
	Usage (lbs): <b>3,670.0</b>	HAP Content (wt%): <b>0.298</b>	HAPs (lbs): <b>512.4</b>
		Density (lb/gal): <b>9.11</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.80%	0.015	55.1
100-42-5	Styrene	28.01%	0.125	457.4

<b>5788C90008</b> Patch Booster (5788C90008)	Usage (gal): <b>5.0</b>	VOC Content (wt%): <b>0.650</b>	VOCs (lbs): <b>5.4</b>
	Usage (lbs): <b>40.8</b>	HAP Content (wt%): <b>0.650</b>	HAPs (lbs): <b>5.4</b>
		Density (lb/gal): <b>8.16</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	65.00%	0.133	5.4

0  
40.8  
0  
40.8

<b>963RK139</b> Rueben Gelcoat (963RK139)	Usage (gal): <b>43.0</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>68.5</b>
	Usage (lbs): <b>454.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>67.1</b>
		Density (lb/gal): <b>10.57</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.57%	0.045	20.4
100-42-5	Styrene	23.11%	0.103	46.7

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>95.9</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>150.6</b>
	Usage (lbs): <b>1,017.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>150.6</b>
		Density (lb/gal): <b>10.61</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	45.8
100-42-5	Styrene	23.16%	0.103	104.8

<b>963XA221</b> Marine Clear Gelcoat (963XA221)	Usage (gal): <b>263.2</b>	VOC Content (wt%): <b>0.453</b>	VOCs (lbs): <b>573.2</b>
	Usage (lbs): <b>2,310.0</b>	HAP Content (wt%): <b>0.447</b>	HAPs (lbs): <b>561.3</b>
		Density (lb/gal): <b>8.78</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	10.00%	0.075	173.2
100-42-5	Styrene	34.73%	0.168	388.1

<b>967BK150</b> Black Barrier Coat (967BK150)	Usage (gal): <b>416.2</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>722.5</b>
	Usage (lbs): <b>4,040.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>577.7</b>
		Density (lb/gal): <b>9.71</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.14%	0.143	577.7

<b>970XJ037</b> Patchaid (970XJ037)	Usage (gal): <b>3.7</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>3.9</b>
	Usage (lbs): <b>32.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>3.6</b>
		Density (lb/gal): <b>8.56</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	57.40%	0.111	3.6



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **February 2008**

✓ 991NH788 Brown Gelcoat (991NH788)	Usage (gal):	53.4	VOC Content (wt%):	0.318	VOCs (lbs):	92.9
	Usage (lbs):	558.0	HAP Content (wt%):	0.318	HAPs (lbs):	92.9
			Density (lb/gal):	10.45		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.23%	0.053	29.3		
100-42-5	Styrene	25.60%	0.114	63.6		
558 0 ----- 558						
✓ 991PK105 Black Iris Gelcoat (991PK105)	Usage (gal):	13.7	VOC Content (wt%):	0.328	VOCs (lbs):	25.2
	Usage (lbs):	142.0	HAP Content (wt%):	0.312	HAPs (lbs):	22.9
			Density (lb/gal):	10.37		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.81%	0.053	7.5		
100-42-5	Styrene	24.41%	0.109	15.4		
✓ 9EXFB379 Dark Blue Gelcoat (9EXFB379)	Usage (gal):	87.6	VOC Content (wt%):	0.315	VOCs (lbs):	127.6
	Usage (lbs):	828.0	HAP Content (wt%):	0.302	HAPs (lbs):	117.2
			Density (lb/gal):	9.45		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	1.71%	0.015	12.4		
100-42-5	Styrene	28.44%	0.127	104.8		
✓ 9EXFB385 Midnight Blue Gelcoat (9EXFB385)	Usage (gal):	117.7	VOC Content (wt%):	0.321	VOCs (lbs):	169.1
	Usage (lbs):	1,080.0	HAP Content (wt%):	0.307	HAPs (lbs):	155.2
			Density (lb/gal):	9.18		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	1.80%	0.015	16.2		
100-42-5	Styrene	28.93%	0.129	139.0		
0 1080 0 ----- 1,080						
✓ 9EXFB389 CA Yellow Gelcoat (9EXFB389)	Usage (gal):	77.8	VOC Content (wt%):	0.319	VOCs (lbs):	111.9
	Usage (lbs):	720.0	HAP Content (wt%):	0.305	HAPs (lbs):	102.8
			Density (lb/gal):	9.25		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	1.78%	0.015	10.8		
100-42-5	Styrene	28.71%	0.128	92.0		
✓ 9EXFB395 Charcoal Gelcoat (9EXFB395)	Usage (gal):	48.7	VOC Content (wt%):	0.322	VOCs (lbs):	69.3
	Usage (lbs):	450.0	HAP Content (wt%):	0.311	HAPs (lbs):	65.1
			Density (lb/gal):	9.24		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	1.98%	0.015	6.8		
100-42-5	Styrene	29.12%	0.130	58.3		
0 450 0 ----- 450						
✓ IPSAadh IPS Adhesive & Activator	Usage (gal):	193.8	VOC Content (wt%):	0.600	VOCs (lbs):	121.1
	Usage (lbs):	1,756.5	HAP Content (wt%):	0.600	HAPs (lbs):	121.0
			Density (lb/gal):	9.07		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	60.00%	0.069	121.0		

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **February 2008**

✓ <b>LSPK-2221</b> Polyester Resin (LSPK-2221)	Usage (gal): <b>847.6</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>288.7</b>
	Usage (lbs): <b>7,500.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>288.8</b>
		Density (lb/gal): <b>8.85</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 34.83%	E-Factor 0.039
			HAP/TAP Lbs <b>288.8</b>
✓ <b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	Usage (gal): <b>485.8</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>323.6</b>
	Usage (lbs): <b>3,241.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	
CAS No	Chemical No reportable HAPs	Weight % 0.00%	E-Factor 0.000
			HAP/TAP Lbs <b>0.0</b>
<i>820 LB</i> <i>728.6 4861.5</i> <i>485.8 3241</i> <i>1214.4 8102.5</i>			
✓ <b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	Usage (gal): <b>8.9</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>15.4</b>
	Usage (lbs): <b>95.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>15.4</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.66%	0.110
			HAP/TAP Lbs <b>5.0</b>
			<b>10.4</b>
✓ <b>MBG06</b> Armorcote White Gelcoat (991WH423)	Usage (gal): <b>632.8</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>1,185.8</b>
	Usage (lbs): <b>6,982.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>1,185.5</b>
		Density (lb/gal): <b>11.03</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.50%	0.053
100-42-5	Styrene	26.36%	0.117
			HAP/TAP Lbs <b>366.6</b>
			<b>819.0</b>
✓ <b>MBG08c</b> Armorcote Pink Gelcoat (991RK124)	Usage (gal): <b>4.4</b>	VOC Content (wt%): <b>0.314</b>	VOCs (lbs): <b>7.7</b>
	Usage (lbs): <b>46.0</b>	HAP Content (wt%): <b>0.314</b>	HAPs (lbs): <b>7.7</b>
		Density (lb/gal): <b>10.52</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	7.12%	0.060
100-42-5	Styrene	24.29%	0.108
			HAP/TAP Lbs <b>2.8</b>
			<b>5.0</b>
✓ <b>MBM01</b> MEKP9 (Clear & Red)	Usage (gal): <b>307.0</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>104.8</b>
	Usage (lbs): <b>2,816.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>48.4</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
			HAP/TAP Lbs <b>48.4</b>
✓ <b>MBP01</b> EZ Bond Adhesive (5787W00077)	Usage (gal): <b>92.2</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>26.5</b>
	Usage (lbs): <b>700.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>26.5</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs <b>26.5</b>

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **February 2008**

<b>MBR02</b> Resin (LHPC3523)	Usage (gal): <b>4,221.9</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,371.4</b>
	Usage (lbs): <b>39,260.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,327.0</b>
	Density (lb/gal): <b>9.30</b>		
CAS No 100-42-5	Chemical Styrene	Weight % 31.62%	E-Factor 0.034
			HAP/TAP Lbs <b>1,327.0</b>

158,560  
39,260  
0  
197,820

<b>MBR02a</b> Resin (LHPC4121)	Usage (gal): <b>4,239.1</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,376.5</b>
	Usage (lbs): <b>39,420.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,332.4</b>
	Density (lb/gal): <b>9.30</b>		
CAS No 100-42-5	Chemical Styrene	Weight % 31.62%	E-Factor 0.034
			HAP/TAP Lbs <b>1,332.4</b>

Stair

<b>Zyv SC</b> Zyvax Surface Cleaner	Usage (gal): <b>32.0</b>	VOC Content (wt%): <b>1.000</b>	VOCs (lbs): <b>225.5</b>
	Usage (lbs): <b>225.5</b>	HAP Content (wt%): <b>0.500</b>	HAPs (lbs): <b>112.8</b>
	Density (lb/gal): <b>7.05</b>		
CAS No 108-88-3	Chemical Toluene	Weight % 50.00%	E-Factor 0.500
			HAP/TAP Lbs <b>112.8</b>

14.125  
225.54  
239.665

	Month (lbs)	Month (tons)
<b>VOCs:</b>	7,699	3.85
<b>HAPs:</b>	6,900	3.45

**Mallbu Boats Merced Plant: Usage & Emissions**Month of: **February 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	48	0.02
80-62-6	Methyl Methacrylate	873	0.44
	No reportable HAPs	0	0.00
100-42-5	Styrene	5,866	2.93
108-88-3	Toluene	113	0.06
	<b>Total</b>	<b>6,900</b>	<b>3.45</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	45,003	0	0	0.00
Total:		45,003		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	5,080	159	808	0.40
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
953BK162	Black Gelcoat (953BK162)	18,633	159	2,963	1.48
953LK160	Dark Blue Gelcoat (953LK160)	9,052	159	1,439	0.72
963LK160	Dark Blue Gelcoat (963LK160)	783	159	124	0.06
963LK188	Midnight Blue Gelcoat (963LK188)	4,849	159	771	0.39
963RK139	Rueben Gelcoat (963RK139)	3,378	159	537	0.27
963RK140	Regal Gelcoat (963RK140)	13,715	159	2,181	1.09
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,456	159	550	0.27
963XA221	Marine Clear Gelcoat (963XA221)	2,470	159	393	0.20
967BK150	Black Barrier Coat (967BK150)	60,600	159	9,635	4.82
991GH359	Polo Green Gelcoat (991GH359)	357	159	57	0.03
991GH369	Brite Green Gelcoat (991GH369)	2,057	159	327	0.16
991NH788	Brown Gelcoat (991NH788)	3,235	159	514	0.26
991PK105	Black Iris Gelcoat (991PK105)	427	159	68	0.03
9EXFB379	Dark Blue Gelcoat (9EXFB379)	828	159	132	0.07
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	720	159	114	0.06
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG01	Black Barrier Gelcoat (967BJ244)	23,250	159	3,697	1.85
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,616	159	734	0.37
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,760	159	280	0.14

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending: February 2008</b>	
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MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,206	159	510	0.25
MBG03	Armorcote Black Gelcoat (991BK139)	93	159	15	0.01
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,941	159	309	0.15
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	4,810	159	765	0.38
MBG05a	Armorcote Platinum Gelcoat (991NK124)	965	159	153	0.08
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	50	159	8	0.00
MBG06	Armorcote White Gelcoat (991WH423)	98,095	159	15,597	7.80
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	5,255	159	836	0.42
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,890	159	301	0.15
MBG08	Armorcote Ruben Gelcoat (991RK111)	725	159	115	0.06
MBG08a	Armorcote Regal Gelcoat (991RK112)	1,739	159	277	0.14
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	490	159	78	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	149	159	24	0.01
<b>Total:</b>		<b>282,935</b>		<b>44,987</b>	<b>22.49</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	103,580	46	4,765	2.38
MBR02	Resin (LHPC3523)	489,640	46	22,523	11.26
MBR02a	Resin (LHPC4121)	682,200	46	31,381	15.69
VLER-4000	VE Resin (VLER-4000)	19,800	46	911	0.46
VSXH-2200	VE Resin (VSXH-2200)	6,000	46	276	0.14
<b>Total:</b>		<b>1,301,220</b>		<b>59,856</b>	<b>29.93</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,773	214	379	0.19
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		1,818		389	0.19

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	22,190	54	1,198	0.60
945B023	Polycor Conductive Tooling (945B023)	1,350	54	73	0.04
Total:		23,540		1,271	0.64

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	106,503	53.25

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	45,003	0.000	0.0	0
Total:		45,003			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	5,080	0.298	131.2	666
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
953BK162	Black Gelcoat (953BK162)	18,633	0.416	229.0	4,267
953LK160	Dark Blue Gelcoat (953LK160)	9,052	0.362	181.8	1,646
963LK160	Dark Blue Gelcoat (963LK160)	783	0.286	122.1	96
963LK188	Midnight Blue Gelcoat (963LK188)	4,849	0.291	126.1	612
963RK139	Rueben Gelcoat (963RK139)	3,378	0.287	123.0	415
963RK140	Regal Gelcoat (963RK140)	13,715	0.288	123.7	1,697
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,456	0.449	260.3	900
963XA221	Marine Clear Gelcoat (963XA221)	2,470	0.447	258.9	639
967BK150	Black Barrier Coat (967BK150)	60,600	0.321	148.8	9,017
991GH359	Polo Green Gelcoat (991GH359)	357	0.328	153.6	55
991GH369	Brite Green Gelcoat (991GH369)	2,057	0.325	151.7	312
991NH788	Brown Gelcoat (991NH788)	3,235	0.318	146.4	474
991PK105	Black Iris Gelcoat (991PK105)	427	0.312	141.8	61
9EXFB379	Dark Blue Gelcoat (9EXFB379)	828	0.302	133.7	111



<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: February 2008</b>	
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9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	720	0.305	136.2	98
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG01	Black Barrier Gelcoat (967BJ244)	23,250	0.318	146.0	3,394
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,616	0.308	138.8	641
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,760	0.320	147.8	260
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,206	0.328	153.7	493
MBG03	Armorcote Black Gelcoat (991BK139)	93	0.326	152.5	14
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,941	0.305	136.6	265
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	4,810	0.304	135.9	654
MBG05a	Armorcote Platinum Gelcoat (991NK124)	965	0.302	133.7	129
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	50	0.310	140.2	7
MBG06	Armorcote White Gelcoat (991WH423)	98,095	0.329	154.4	15,150
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	5,255	0.306	137.3	722
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,890	0.306	137.1	259
MBG08	Armorcote Ruben Gelcoat (991RK111)	725	0.309	139.7	101
MBG08a	Armorcote Regal Gelcoat (991RK112)	1,739	0.311	140.5	244
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	490	0.308	138.8	68

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: February 2008</b>	
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MBG08c	Armorcote Pink Gelcoat (991RK124)	149	0.314	143.2	21
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Total:		282,935			44,106
Weighted Average MACT Model Point Value:		155.9			
Intermediate MACT Model Point Value (lbs):		44,106			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	103,580	0.348	45.1	4,671
MBR02	Resin (LHPC3523)	489,640	0.316	36.2	17,718
MBR02a	Resin (LHPC4121)	682,200	0.316	36.2	24,686
VLER-4000	VE Resin (VLER-4000)	19,800	0.320	37.2	736
VSXH-2200	VE Resin (VSXH-2200)	6,000	0.349	45.3	272
Total:		1,301,220			48,083
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		48,083			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,773	0.358	178.7	317
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
Total:		1,818			330
Weighted Average MACT Model Point Value:		181.3			
Intermediate MACT Model Point Value (lbs):		330			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	22,190	0.280	27.4	609
945B023	Polycor Conductive Tooling (945B023)	1,350	0.469	88.8	120

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending: February 2008**

Total:	23,540	729
Weighted Average MACT Model Point Value:	31.0	
Intermediate MACT Model Point Value (lbs):	729	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	93,248	46.62

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>March 2008</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **March 2008**

<b>100BK201</b>	Usage (gal): <b>258.1</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>340.7</b>
Jet Black Gelcoat (100BK201)	Usage (lbs): <b>2,350.0</b>	HAP Content (wt%): <b>0.298</b>	HAPs (lbs): <b>328.1</b>
		Density (lb/gal): <b>9.11</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	1.80%	0.015
100-42-5	Styrene	28.01%	0.125
			HAP/TAP Lbs
			35.2
			292.9

1410  
3670  
2350  

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7,430

<b>963LK160</b>	Usage (gal): <b>53.0</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>89.9</b>
Dark Blue Gelcoat (963LK160)	Usage (lbs): <b>562.0</b>	HAP Content (wt%): <b>0.286</b>	HAPs (lbs): <b>82.3</b>
		Density (lb/gal): <b>10.60</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.77%	0.045
100-42-5	Styrene	22.78%	0.101
			HAP/TAP Lbs
			25.3
			57.0

783  
0  
562  

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1,345

<b>963RK139</b>	Usage (gal): <b>27.0</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>43.0</b>
Rueben Gelcoat (963RK139)	Usage (lbs): <b>285.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>42.1</b>
		Density (lb/gal): <b>10.57</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.57%	0.045
100-42-5	Styrene	23.11%	0.103
			HAP/TAP Lbs
			12.8
			29.3

244  
454  
285  

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983

<b>963RK140</b>	Usage (gal): <b>128.7</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>202.1</b>
Regal Gelcoat (963RK140)	Usage (lbs): <b>1,365.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>202.1</b>
		Density (lb/gal): <b>10.61</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.62%	0.045
100-42-5	Styrene	23.16%	0.103
			HAP/TAP Lbs
			61.4
			140.7

2114  
1017  
1365  

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4,496

<b>963XA221</b>	Usage (gal): <b>22.8</b>	VOC Content (wt%): <b>0.453</b>	VOCs (lbs): <b>49.6</b>
Marine Clear Gelcoat (963XA221)	Usage (lbs): <b>200.0</b>	HAP Content (wt%): <b>0.447</b>	HAPs (lbs): <b>48.6</b>
		Density (lb/gal): <b>8.78</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	10.00%	0.075
100-42-5	Styrene	34.73%	0.168
			HAP/TAP Lbs
			15.0
			33.6

160  
2310  
200  

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2,670

<b>967BK150</b>	Usage (gal): <b>832.4</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>1,445.0</b>
Black Barrier Coat (967BK150)	Usage (lbs): <b>8,080.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>1,155.5</b>
		Density (lb/gal): <b>9.71</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	32.14%	0.143
			HAP/TAP Lbs
			1,155.5

12,120  
4,040  
8,080  

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24,240

<b>970XJ037</b>	Usage (gal): <b>5.6</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>5.8</b>
Patchaid (970XJ037)	Usage (lbs): <b>48.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>5.3</b>
		Density (lb/gal): <b>8.56</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	57.40%	0.111
			HAP/TAP Lbs
			5.3

8  
32  
48  

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88

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **March 2008**

<b>991PK105</b>	Usage (gal): <b>9.3</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>17.0</b>
Black Iris Gelcoat (991PK105)	Usage (lbs): <b>96.0</b>	HAP Content (wt%): <b>0.312</b>	HAPs (lbs): <b>15.5</b>
		Density (lb/gal): <b>10.37</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.81%	0.053
100-42-5	Styrene	24.41%	0.109
			HAP/TAP Lbs
			5.0
			10.4
<hr/>			
<b>9EXFB379</b>	Usage (gal): <b>121.6</b>	VOC Content (wt%): <b>0.315</b>	VOCs (lbs): <b>177.1</b>
Dark Blue Gelcoat (9EXFB379)	Usage (lbs): <b>1,149.0</b>	HAP Content (wt%): <b>0.302</b>	HAPs (lbs): <b>162.7</b>
		Density (lb/gal): <b>9.45</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	1.71%	0.015
100-42-5	Styrene	28.44%	0.127
			HAP/TAP Lbs
			17.2
			145.4
<hr/>			
<b>9EXFB389</b>	Usage (gal): <b>14.6</b>	VOC Content (wt%): <b>0.319</b>	VOCs (lbs): <b>21.0</b>
CA Yellow Gelcoat (9EXFB389)	Usage (lbs): <b>135.0</b>	HAP Content (wt%): <b>0.305</b>	HAPs (lbs): <b>19.3</b>
		Density (lb/gal): <b>9.25</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	1.78%	0.015
100-42-5	Styrene	28.71%	0.128
			HAP/TAP Lbs
			2.0
			17.2
<hr/>			
<b>ADH4011</b>	Usage (gal): <b>6.5</b>	VOC Content (wt%): <b>0.549</b>	VOCs (lbs): <b>25.4</b>
Conbond (ADH4011)	Usage (lbs): <b>46.2</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>7.11</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0
<hr/>			
<b>IPSAth</b>	Usage (gal): <b>203.3</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>127.1</b>
IPSA Adhesive & Activator	Usage (lbs): <b>1,843.1</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>127.0</b>
		Density (lb/gal): <b>9.07</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	60.00%	0.069
			HAP/TAP Lbs
			127.0
<hr/>			
<b>LSPK-2221</b>	Usage (gal): <b>508.5</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>173.2</b>
Polyester Resin (LSPK-2221)	Usage (lbs): <b>4,500.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>173.3</b>
		Density (lb/gal): <b>8.85</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	34.83%	0.039
			HAP/TAP Lbs
			173.3
<hr/>			
<b>MBG02</b>	Usage (gal): <b>8.9</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>15.4</b>
Armorcote Moonbeam Gelcoat (991AK138)	Usage (lbs): <b>95.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>15.4</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.66%	0.110
			HAP/TAP Lbs
			5.0
			10.4

0  
142  
96  

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238

0  
828  
1149  

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1,977

0  
720  
135  

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855

3,850 gal  
0  
46,250 gal  

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50,090 gal

212,990 gal  
193,880 gal  
203,380 gal  

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610,050 gal

9660  
7500  
4500  

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21,660

730  
95  
95  

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920

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **March 2008**

Product	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)
<b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	18.1	192.0	0.304	0.304	10.63	30.9	30.9
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.07%	0.053	10.1			
100-42-5	Styrene	24.37%	0.109	20.8			
<b>MBG05a</b> Armorcote Platinum Gelcoat (991NK124)	69.8	749.0	0.301	0.302	10.73	119.4	119.5
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.10%	0.053	39.3			
100-42-5	Styrene	24.05%	0.107	80.1			
<b>MBG06</b> Armorcote White Gelcoat (991WH423)	418.9	4,622.0	0.329	0.329	11.03	785.0	784.8
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.50%	0.053	242.7			
100-42-5	Styrene	26.36%	0.117	542.2			
<b>MBG08b</b> Armorcote Sangrial Gelcoat (991RK118)	9.6	100.0	0.308	0.308	10.45	15.7	15.8
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	5.55%	0.045	4.5			
100-42-5	Styrene	25.28%	0.113	11.3			
<b>MBG08c</b> Armorcote Pink Gelcoat (991RK124)	14.2	149.0	0.314	0.314	10.52	25.0	25.0
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	7.12%	0.060	8.9			
100-42-5	Styrene	24.29%	0.108	16.1			
<b>MBM01</b> MEKP9 (Clear & Red)	209.3	1,920.0	0.450	0.430	9.17	71.4	33.0
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
131-11-3	Dimethyl Phthalate	43.00%	0.017	33.0			
<b>MBM02</b> Aquawash (095-0040)	54.9	467.0	0.008	0.000	8.51	3.8	0.0
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
	No reportable HAPs	0.00%	0.000	0.0			

106  
0  
192  
298

0  
0  
749  
749

6356  
6982  
4622  
17,960

90  
0  
100  
190

0  
46  
149  
195

2752  
2816  
1920  
7,488

0  
0  
54.9 gal  
54.9 gal

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **March 2008**

Material	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)
<b>MBP01</b> EZ Bond Adhesive (5787W00077)	92.2	700.0	0.300	0.300	7.59	26.5	26.5
CAS No 100-42-5	Chemical Styrene	Weight % 30.00%	E-Factor 0.038	HAP/TAP Lbs 26.5			
<b>MBR02a</b> Resin (LHPC4121)	4,329.5	40,260.0	0.326	0.316	9.30	1,405.9	1,360.8
CAS No 100-42-5	Chemical Styrene	Weight % 31.62%	E-Factor 0.034	HAP/TAP Lbs 1,360.8			
<b>VLER-4000</b> VE Resin (VLER-4000)	102.8	900.0	0.320	0.320	8.76	30.8	30.8
CAS No 100-42-5	Chemical Styrene	Weight % 32.00%	E-Factor 0.034	HAP/TAP Lbs 30.8			

92.2 gal  
 0  
 92.2 gal  


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 1484.4 gal  
 0  
 39,420  
 40,260  


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 79,680  
 0  
 0  
 900  


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 900

	Month (lbs)	Month (tons)
VOCs:	5,247	2.62
HAPs:	4,804	2.40



<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>April 2008</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **April 2008**

<b>1055</b>		Usage (gal): <b>863.3</b>	VOC Content (wt%): <b>0.280</b>	VOCs (lbs): <b>269.6</b>
Tooling Resin (1055)		Usage (lbs): <b>9,000.0</b>	HAP Content (wt%): <b>0.280</b>	HAPs (lbs): <b>269.6</b>
			Density (lb/gal): <b>10.43</b>	
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.00%	0.001	9.6
100-42-5	Styrene	27.00%	0.029	260.0
<b>200LK202</b>		Usage (gal): <b>1,006.2</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>1,321.6</b>
Black Barrier Coat (200LK202)		Usage (lbs): <b>9,700.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>1,294.8</b>
			Density (lb/gal): <b>9.64</b>	
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.133	1,294.8
<b>5799B90020</b>		Usage (gal): <b>434.0</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>713.8</b>
Aztec Black Gelcoat (5799B90020)		Usage (lbs): <b>4,470.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>670.1</b>
			Density (lb/gal): <b>10.30</b>	
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.25%	0.015	67.0
100-42-5	Styrene	30.31%	0.135	603.0
<b>963LK160</b>		Usage (gal): <b>53.0</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>89.9</b>
Dark Blue Gelcoat (963LK160)		Usage (lbs): <b>562.0</b>	HAP Content (wt%): <b>0.286</b>	HAPs (lbs): <b>82.3</b>
			Density (lb/gal): <b>10.60</b>	
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.77%	0.045	25.3
100-42-5	Styrene	22.78%	0.101	57.0
<b>963LK188</b>		Usage (gal): <b>66.6</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>105.1</b>
Midnight Blue Gelcoat (963LK188)		Usage (lbs): <b>708.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>105.1</b>
			Density (lb/gal): <b>10.63</b>	
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	31.9
100-42-5	Styrene	23.24%	0.103	73.2
<b>963RK139</b>		Usage (gal): <b>13.8</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>22.0</b>
Rueben Gelcoat (963RK139)		Usage (lbs): <b>146.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>21.6</b>
			Density (lb/gal): <b>10.57</b>	
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.57%	0.045	6.6
100-42-5	Styrene	23.11%	0.103	15.0

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **April 2008**

✓ 963RK140 Regal Gelcoat (963RK140)	Usage (gal):	28.6	VOC Content (wt%):	0.288	VOCs (lbs):	44.9
	Usage (lbs):	303.0	HAP Content (wt%):	0.288	HAPs (lbs):	44.9
			Density (lb/gal):	10.61		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.62%	0.045	13.6		
100-42-5	Styrene	23.16%	0.103	31.2		
✓ 965BK183 Black VE Tooling (965BK183)	Usage (gal):	48.8	VOC Content (wt%):	0.409	VOCs (lbs):	99.2
	Usage (lbs):	450.0	HAP Content (wt%):	0.358	HAPs (lbs):	80.1
			Density (lb/gal):	9.23		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	35.84%	0.178	80.1		
✓ 967BK150 Black Barrier Coat (967BK150)	Usage (gal):	404.3	VOC Content (wt%):	0.364	VOCs (lbs):	701.9
	Usage (lbs):	3,925.0	HAP Content (wt%):	0.321	HAPs (lbs):	561.3
			Density (lb/gal):	9.71		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	32.14%	0.143	561.3		
✓ 970XJ037 Patchaid (970XJ037)	Usage (gal):	2.8	VOC Content (wt%):	0.583	VOCs (lbs):	2.9
	Usage (lbs):	24.0	HAP Content (wt%):	0.574	HAPs (lbs):	2.7
			Density (lb/gal):	8.56		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	57.40%	0.111	2.7		
✓ 991GH369 Brite Green Gelcoat (991GH369)	Usage (gal):	9.7	VOC Content (wt%):	0.325	VOCs (lbs):	16.3
	Usage (lbs):	99.0	HAP Content (wt%):	0.325	HAPs (lbs):	16.3
			Density (lb/gal):	10.22		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.62%	0.045	4.5		
100-42-5	Styrene	26.89%	0.120	11.8		
✓ ADH4011 Conbond (ADH4011)	Usage (gal):	8.0	VOC Content (wt%):	0.549	VOCs (lbs):	31.2
	Usage (lbs):	56.9	HAP Content (wt%):	0.000	HAPs (lbs):	0.0
			Density (lb/gal):	7.11		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		
✓ Flex-Z Flex-Z 1, 2, 3, 4, 5 & 6	Usage (gal):	16.0	VOC Content (wt%):	0.900	VOCs (lbs):	84.1
	Usage (lbs):	93.4	HAP Content (wt%):	0.000	HAPs (lbs):	0.0
			Density (lb/gal):	5.84		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		

303  
003  
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303

450  
000  
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450

3925  
000  
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3925

0

56.9  
000  
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56.9

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **April 2008**

<b>IPSAh</b> IPS Adhesive & Activator	Usage (gal):	208.1	VOC Content (wt%): 0.600		VOCs (lbs): 130.1
	Usage (lbs):	1,886.4	HAP Content (wt%): 0.600		HAPs (lbs): 129.9
			Density (lb/gal): 9.07		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs	
80-62-6	Methyl Methacrylate	60.00%	0.069	129.9	
<b>LSPK-2221</b> Polyester Resin (LSPK-2221)	Usage (gal):	508.5	VOC Content (wt%): 0.348		VOCs (lbs): 173.2
	Usage (lbs):	4,500.0	HAP Content (wt%): 0.348		HAPs (lbs): 173.3
			Density (lb/gal): 8.85		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs	
100-42-5	Styrene	34.83%	0.039	173.3	
<b>MA300</b> ITW Plexus Adhesive (MA300)	Usage (gal):	1.2	VOC Content (wt%): 0.600		VOCs (lbs): 0.5
	Usage (lbs):	10.3	HAP Content (wt%): 0.600		HAPs (lbs): 0.5
			Density (lb/gal): 8.59		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs	
80-62-6	Methyl Methacrylate	60.00%	0.048	0.5	
<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	Usage (gal):	728.6	VOC Content (wt%): 0.100		VOCs (lbs): 485.3
	Usage (lbs):	4,861.5	HAP Content (wt%): 0.000		HAPs (lbs): 0.0
			Density (lb/gal): 6.67		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs	
	No reportable HAPs	0.00%	0.000	0.0	
<b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	Usage (gal):	18.6	VOC Content (wt%): 0.308		VOCs (lbs): 32.1
	Usage (lbs):	198.0	HAP Content (wt%): 0.308		HAPs (lbs): 32.1
			Density (lb/gal): 10.63		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs	
80-62-6	Methyl Methacrylate	6.17%	0.053	10.4	
100-42-5	Styrene	24.66%	0.110	21.7	
<b>MBG04</b> Armorcote Vapor Blue Gelcoat (991LK123)	Usage (gal):	19.3	VOC Content (wt%): 0.305		VOCs (lbs): 31.0
	Usage (lbs):	201.0	HAP Content (wt%): 0.305		HAPs (lbs): 31.0
			Density (lb/gal): 10.43		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs	
80-62-6	Methyl Methacrylate	5.98%	0.045	9.0	
100-42-5	Styrene	24.56%	0.109	22.0	
<b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	Usage (gal):	14.7	VOC Content (wt%): 0.304		VOCs (lbs): 25.1
	Usage (lbs):	156.0	HAP Content (wt%): 0.304		HAPs (lbs): 25.1
			Density (lb/gal): 10.63		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs	
80-62-6	Methyl Methacrylate	6.07%	0.053	8.2	
100-42-5	Styrene	24.37%	0.109	16.9	

Malibu Boats Merced Plant: Usage and VOC & HAP Emissions Month of: April 2008

<b>MBG06</b> Armorcote White Gelcoat (991VH423)	Usage (gal):	420.5	VOC Content (wt%):	0.329	VOCs (lbs):	788.0
	Usage (lbs):	4,640.0	HAP Content (wt%):	0.329	HAPs (lbs):	787.9
			Density (lb/gal):	11.03		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.50%	0.053	243.6		
100-42-5	Styrene	26.36%	0.117	544.3		

<b>MBG07</b> Armorcote CA Yellow Gelcoat (991YK125)	Usage (gal):	67.8	VOC Content (wt%):	0.306	VOCs (lbs):	113.3
	Usage (lbs):	702.0	HAP Content (wt%):	0.306	HAPs (lbs):	113.3
			Density (lb/gal):	10.35		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.17%	0.053	36.9		
100-42-5	Styrene	24.46%	0.109	76.4		

702  
0  
0  
702

<b>MBG07a</b> Armorcote Orange Gelcoat (991YK132)	Usage (gal):	57.8	VOC Content (wt%):	0.306	VOCs (lbs):	93.4
	Usage (lbs):	597.0	HAP Content (wt%):	0.306	HAPs (lbs):	93.4
			Density (lb/gal):	10.33		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.58%	0.045	26.9		
100-42-5	Styrene	25.03%	0.111	66.5		

597  
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597

<b>MBG08c</b> Armorcote Pink Gelcoat (991RK124)	Usage (gal):	24.9	VOC Content (wt%):	0.314	VOCs (lbs):	44.0
	Usage (lbs):	262.0	HAP Content (wt%):	0.314	HAPs (lbs):	44.0
			Density (lb/gal):	10.52		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	7.12%	0.060	15.7		
100-42-5	Styrene	24.29%	0.108	28.3		

262  
0  
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262

<b>MBM01</b> MEKP9 (Clear & Red)	Usage (gal):	195.3	VOC Content (wt%):	0.450	VOCs (lbs):	66.7
	Usage (lbs):	1,792.0	HAP Content (wt%):	0.430	HAPs (lbs):	30.8
			Density (lb/gal):	9.17		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
131-11-3	Dimethyl Phthalate	43.00%	0.017	30.8		

<b>MBP01</b> EZ Bond Adhesive (5787W00077)	Usage (gal):	92.2	VOC Content (wt%):	0.300	VOCs (lbs):	26.5
	Usage (lbs):	700.0	HAP Content (wt%):	0.300	HAPs (lbs):	26.5
			Density (lb/gal):	7.59		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	30.00%	0.038	26.5		

<b>MBR02a</b> Resin (LHPC4121)	Usage (gal):	8,555.7	VOC Content (wt%):	0.326	VOCs (lbs):	2,778.2
	Usage (lbs):	79,560.0	HAP Content (wt%):	0.316	HAPs (lbs):	2,689.1
			Density (lb/gal):	9.30		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	31.62%	0.034	2,689.1		

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **April 2008**

<b>VLER-4000</b>	Usage (gal): <b>154.2</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>46.2</b>
VE Resin (VLER-4000)	Usage (lbs): <b>1,350.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>46.2</b>
		Density (lb/gal): <b>8.76</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	32.00%	0.034
			HAP/TAP Lbs
			<b>46.2</b>

<b>VSXH-2200</b>	Usage (gal): <b>164.1</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>81.0</b>
VE Resin (VSXH-2200)	Usage (lbs): <b>1,500.0</b>	HAP Content (wt%): <b>0.349</b>	HAPs (lbs): <b>57.8</b>
		Density (lb/gal): <b>9.14</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	34.89%	0.039
			HAP/TAP Lbs
			<b>57.8</b>

	Month (lbs)	Month (tons)
<b>VOCs:</b>	8,417	4.21
<b>HAPs:</b>	7,429	3.71

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **March 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	33	0.02
80-62-6	Methyl Methacrylate	612	0.31
	No reportable HAPs	0	0.00
100-42-5	Styrene	4,160	2.08
	<b>Total</b>	<b>4,804</b>	<b>2.40</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	40,512	0	0	0.00
Total:		40,512		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
953BK162	Black Gelcoat (953BK162)	10,781	159	1,714	0.86
953LK160	Dark Blue Gelcoat (953LK160)	7,418	159	1,179	0.59
963LK160	Dark Blue Gelcoat (963LK160)	1,345	159	214	0.11
963LK188	Midnight Blue Gelcoat (963LK188)	4,213	159	670	0.33
963RK139	Rueben Gelcoat (963RK139)	3,663	159	582	0.29
963RK140	Regal Gelcoat (963RK140)	15,080	159	2,398	1.20
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,106	159	494	0.25
963XA221	Marine Clear Gelcoat (963XA221)	2,670	159	425	0.21
967BK150	Black Barrier Coat (967BK150)	68,680	159	10,920	5.46
991GH359	Polo Green Gelcoat (991GH359)	255	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,902	159	302	0.15
991NH788	Brown Gelcoat (991NH788)	3,112	159	495	0.25
991PK105	Black Iris Gelcoat (991PK105)	523	159	83	0.04
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG01	Black Barrier Gelcoat (967BJ244)	13,130	159	2,088	1.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,257	159	677	0.34
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,653	159	263	0.13



<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending:</b>		<b>March 2008</b>
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MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,000	159	477	0.24
MBG03	Armorcote Black Gelcoat (991BK139)	93	159	15	0.01
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,733	159	276	0.14
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	4,404	159	700	0.35
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	159	219	0.11
MBG06	Armorcote White Gelcoat (991WH423)	89,897	159	14,294	7.15
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,636	159	737	0.37
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,730	159	275	0.14
MBG08	Armorcote Ruben Gelcoat (991RK111)	151	159	24	0.01
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	298	159	47	0.02
<b>Total:</b>		<b>264,709</b>		<b>42,089</b>	<b>21.04</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	97,020	46	4,463	2.23
MBR02	Resin (LHPC3523)	358,120	46	16,474	8.24
MBR02a	Resin (LHPC4121)	722,460	46	33,233	16.62
VLER-4000	VE Resin (VLER-4000)	18,000	46	828	0.41
VSXH-2200	VE Resin (VSXH-2200)	6,000	46	276	0.14
<b>Total:</b>		<b>1,201,600</b>		<b>55,274</b>	<b>27.64</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,773	214	379	0.19

**Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit** **12 Months Ending: March 2008**

MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
<b>Total:</b>		1,818		389	0.19

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	22,090	54	1,193	0.60
945B023	Polycor Conductive Tooling (945B023)	450	54	24	0.01
<b>Total:</b>		22,540		1,217	0.61

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	98,969	49.48

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	40,512	0.000	0.0	0
Total:		40,512			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
953BK162	Black Gelcoat (953BK162)	10,781	0.416	229.0	2,469
953LK160	Dark Blue Gelcoat (953LK160)	7,418	0.362	181.8	1,349
963LK160	Dark Blue Gelcoat (963LK160)	1,345	0.286	122.1	164
963LK188	Midnight Blue Gelcoat (963LK188)	4,213	0.291	126.1	531
963RK139	Rueben Gelcoat (963RK139)	3,663	0.287	123.0	451
963RK140	Regal Gelcoat (963RK140)	15,080	0.288	123.7	1,865
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,106	0.449	260.3	809
963XA221	Marine Clear Gelcoat (963XA221)	2,670	0.447	258.9	691
967BK150	Black Barrier Coat (967BK150)	68,680	0.321	148.8	10,219
991GH359	Polo Green Gelcoat (991GH359)	255	0.328	153.6	39
991GH369	Brite Green Gelcoat (991GH369)	1,902	0.325	151.7	289
991NH788	Brown Gelcoat (991NH788)	3,112	0.318	146.4	456
991PK105	Black Iris Gelcoat (991PK105)	523	0.312	141.8	74
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>March 2008</b>
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ID	Product Name	Weight (lbs)	MACT Point Value	12 Months Total	March 2008
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG01	Black Barrier Gelcoat (967BJ244)	13,130	0.318	146.0	1,916
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,257	0.308	138.8	591
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,653	0.320	147.8	244
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,000	0.328	153.7	461
MBG03	Armorcote Black Gelcoat (991BK139)	93	0.326	152.5	14
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,733	0.305	136.6	237
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	4,404	0.304	135.9	598
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	0.302	133.7	184
MBG06	Armorcote White Gelcoat (991WH423)	89,897	0.329	154.4	13,884
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,636	0.306	137.3	637
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,730	0.306	137.1	237
MBG08	Armorcote Ruben Gelcoat (991RK111)	151	0.309	139.7	21
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	298	0.314	143.2	43

Total:	264,709	40,599
Weighted Average MACT Model Point Value:	153.4	
Intermediate MACT Model Point Value (lbs):	40,599	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	97,020	0.348	45.1	4,375
MBR02	Resin (LHPC3523)	358,120	0.316	36.2	12,959
MBR02a	Resin (LHPC4121)	722,460	0.316	36.2	26,143
VLER-4000	VE Resin (VLER-4000)	18,000	0.320	37.2	669
VSXH-2200	VE Resin (VSXH-2200)	6,000	0.349	45.3	272
<b>Total:</b>		<b>1,201,600</b>			<b>44,418</b>
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		44,418			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,773	0.358	178.7	317
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
<b>Total:</b>		<b>1,818</b>			<b>330</b>
Weighted Average MACT Model Point Value:		181.3			
Intermediate MACT Model Point Value (lbs):		330			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	22,090	0.280	27.4	606
945B023	Polycor Conductive Tooling (945B023)	450	0.469	88.8	40
<b>Total:</b>		<b>22,540</b>			<b>646</b>
Weighted Average MACT Model Point Value:		28.7			
Intermediate MACT Model Point Value (lbs):		646			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	85,993	43.00

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **April 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	31	0.02
80-62-6	Methyl Methacrylate	640	0.32
	No reportable HAPs	0	0.00
100-42-5	Styrene	6,759	3.38
	<b>Total</b>	<b>7,429</b>	<b>3.71</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	39,702	0	0	0.00
Total:		39,702		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	9,700	159	1,542	0.77
5799B90020	Aztec Black Gelcoat (5799B90020)	4,470	159	711	0.36
953BK162	Black Gelcoat (953BK162)	4,430	159	704	0.35
953LK160	Dark Blue Gelcoat (953LK160)	5,988	159	952	0.48
963LK160	Dark Blue Gelcoat (963LK160)	1,907	159	303	0.15
963LK188	Midnight Blue Gelcoat (963LK188)	4,397	159	699	0.35
963RK139	Rueben Gelcoat (963RK139)	3,295	159	524	0.26
963RK140	Regal Gelcoat (963RK140)	13,712	159	2,180	1.09
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,786	159	443	0.22
963XA221	Marine Clear Gelcoat (963XA221)	2,670	159	425	0.21
967BK150	Black Barrier Coat (967BK150)	72,605	159	11,544	5.77
991GH359	Polo Green Gelcoat (991GH359)	153	159	24	0.01
991GH369	Brite Green Gelcoat (991GH369)	2,001	159	318	0.16
991NH788	Brown Gelcoat (991NH788)	2,696	159	429	0.21
991PK105	Black Iris Gelcoat (991PK105)	523	159	83	0.04
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG01	Black Barrier Gelcoat (967BJ244)	8,080	159	1,285	0.64



Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit			12 Months Ending:		April 2008
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,037	159	642	0.32
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,553	159	247	0.12
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,845	159	452	0.23
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,735	159	276	0.14
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,718	159	591	0.30
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	159	219	0.11
MBG06	Armorcote White Gelcoat (991WH423)	84,677	159	13,464	6.73
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,637	159	737	0.37
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,866	159	297	0.15
MBG08	Armorcote Ruben Gelcoat (991RK111)	151	159	24	0.01
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	560	159	89	0.04
Total:		262,171		41,685	20.84

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	90,960	46	4,184	2.09
MBR02	Resin (LHPC3523)	317,100	46	14,587	7.29
MBR02a	Resin (LHPC4121)	723,500	46	33,281	16.64
VLER-4000	VE Resin (VLER-4000)	14,400	46	662	0.33
VSXH-2200	VE Resin (VSXH-2200)	7,500	46	345	0.17
Total:		1,153,460		53,059	26.53

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,223	214	476	0.24
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		2,268		485	0.24

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	25,590	54	1,382	0.69
945B023	Polycor Conductive Tooling (945B023)	450	54	24	0.01
Total:		26,040		1,406	0.70

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	96,636	48.32

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	39,702	0.000	0.0	0
Total:		39,702			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	9,700	0.300	132.6	1,286
5799B90020	Aztec Black Gelcoat (5799B90020)	4,470	0.316	144.4	645
953BK162	Black Gelcoat (953BK162)	4,430	0.416	229.0	1,015
953LK160	Dark Blue Gelcoat (953LK160)	5,988	0.362	181.8	1,089
963LK160	Dark Blue Gelcoat (963LK160)	1,907	0.286	122.1	233
963LK188	Midnight Blue Gelcoat (963LK188)	4,397	0.291	126.1	555
963RK139	Rueben Gelcoat (963RK139)	3,295	0.287	123.0	405
963RK140	Regal Gelcoat (963RK140)	13,712	0.288	123.7	1,696
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,786	0.449	260.3	725
963XA221	Marine Clear Gelcoat (963XA221)	2,670	0.447	258.9	691
967BK150	Black Barrier Coat (967BK150)	72,605	0.321	148.8	10,803
991GH359	Polo Green Gelcoat (991GH359)	153	0.328	153.6	24
991GH369	Brite Green Gelcoat (991GH369)	2,001	0.325	151.7	304
991NH788	Brown Gelcoat (991NH788)	2,696	0.318	146.4	395

Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report				12 Months Ending:	April 2008
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ID	Description	Points	Value	12 Months Ending	April 2008
991PK105	Black Iris Gelcoat (991PK105)	523	0.312	141.8	74
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG01	Black Barrier Gelcoat (967BJ244)	8,080	0.318	146.0	1,179
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,037	0.308	138.8	560
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,553	0.320	147.8	230
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,845	0.328	153.7	437
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,735	0.305	136.6	237
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,718	0.304	135.9	505
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	0.302	133.7	184
MBG06	Armorcote White Gelcoat (991WH423)	84,677	0.329	154.4	13,078
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,637	0.306	137.3	637
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,866	0.306	137.1	256
MBG08	Armorcote Ruben Gelcoat (991RK111)	151	0.309	139.7	21
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	560	0.314	143.2	80

Total:	262,171	39,469
Weighted Average MACT Model Point Value:	150.5	
Intermediate MACT Model Point Value (lbs):	39,469	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	90,960	0.348	45.1	4,102
MBR02	Resin (LHPC3523)	317,100	0.316	36.2	11,475
MBR02a	Resin (LHPC4121)	723,500	0.316	36.2	26,181
VLER-4000	VE Resin (VLER-4000)	14,400	0.320	37.2	535
VSXH-2200	VE Resin (VSXH-2200)	7,500	0.349	45.3	339
Total:		1,153,460			42,632
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		42,632			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,223	0.358	178.7	397
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
Total:		2,268			410
Weighted Average MACT Model Point Value:		180.7			
Intermediate MACT Model Point Value (lbs):		410			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	25,590	0.280	27.4	702
945B023	Polycor Conductive Tooling (945B023)	450	0.469	88.8	40
Total:		26,040			742
Weighted Average MACT Model Point Value:		28.5			
Intermediate MACT Model Point Value (lbs):		742			

	Pounds	Tons
Final MACT Model Point Value:	83,254	41.63

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>May 2008</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **May 2008**

<b>1055</b>	Usage (gal): <b>863.3</b>	VOC Content (wt%): <b>0.280</b>	VOCs (lbs): <b>269.6</b>
Tooling Resin (1055)	Usage (lbs): <b>9,000.0</b>	HAP Content (wt%): <b>0.280</b>	HAPs (lbs): <b>269.6</b>
		Density (lb/gal): <b>10.43</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.00%	0.001	9.6
100-42-5	Styrene	27.00%	0.029	260.0

9,000  
9,000  
0  

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18,000

<b>200LK202</b>	Usage (gal): <b>508.3</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>667.6</b>
Black Barrier Coat (200LK202)	Usage (lbs): <b>4,900.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>654.1</b>
		Density (lb/gal): <b>9.64</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.133	654.1

<b>5788C90279</b>	Usage (gal): <b>1.0</b>	VOC Content (wt%): <b>0.560</b>	VOCs (lbs): <b>0.9</b>
Patch Aid Reducer (5788C90279)	Usage (lbs): <b>8.0</b>	HAP Content (wt%): <b>0.558</b>	HAPs (lbs): <b>0.9</b>
		Density (lb/gal): <b>8.33</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	55.84%	0.107	0.9

0  
40  
0  
8

<b>5799A90073</b>	Usage (gal): <b>30.3</b>	VOC Content (wt%): <b>0.327</b>	VOCs (lbs): <b>53.0</b>
Midnight Blue Gelcoat (5799A90073)	Usage (lbs): <b>315.0</b>	HAP Content (wt%): <b>0.317</b>	HAPs (lbs): <b>49.8</b>
		Density (lb/gal): <b>10.41</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.58%	0.038	11.8
100-42-5	Styrene	27.10%	0.121	38.0

0  
315  
0  

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315

<b>5799B90020</b>	Usage (gal): <b>485.4</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>798.4</b>
Aztec Black Gelcoat (5799B90020)	Usage (lbs): <b>5,000.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>749.5</b>
		Density (lb/gal): <b>10.30</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.25%	0.015	75.0
100-42-5	Styrene	30.31%	0.135	674.5

4470  
5000  
0  

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9470

<b>5799E90056</b>	Usage (gal): <b>17.2</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>30.1</b>
Charcoal Gelcoat (5799E90056)	Usage (lbs): <b>180.0</b>	HAP Content (wt%): <b>0.315</b>	HAPs (lbs): <b>28.3</b>
		Density (lb/gal): <b>10.49</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.58%	0.038	6.8
100-42-5	Styrene	26.97%	0.120	21.6

0  
180  
0  

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180

<b>5799L90035</b>	Usage (gal): <b>21.8</b>	VOC Content (wt%): <b>0.336</b>	VOCs (lbs): <b>37.3</b>
Ca Yellow Gelcoat (5799L90035)	Usage (lbs): <b>223.0</b>	HAP Content (wt%): <b>0.328</b>	HAPs (lbs): <b>35.6</b>
		Density (lb/gal): <b>10.21</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	3.76%	0.030	6.7
100-42-5	Styrene	29.09%	0.129	28.9



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **May 2008**

<b>5799R90052</b>	Usage (gal): <b>30.4</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>53.2</b>
Regal Gelcoat (5799R90052)	Usage (lbs): <b>315.0</b>	HAP Content (wt%): <b>0.319</b>	HAPs (lbs): <b>50.3</b>
		Density (lb/gal): <b>10.36</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	4.47%	0.038
100-42-5	Styrene	27.44%	0.122
			HAP/TAP Lbs
			11.8
			38.5
<b>963LK160</b>	Usage (gal): <b>40.0</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>67.8</b>
Dark Blue Gelcoat (963LK160)	Usage (lbs): <b>424.0</b>	HAP Content (wt%): <b>0.286</b>	HAPs (lbs): <b>62.1</b>
		Density (lb/gal): <b>10.60</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.77%	0.045
100-42-5	Styrene	22.78%	0.101
			HAP/TAP Lbs
			19.1
			43.0
<b>963LK188</b>	Usage (gal): <b>20.0</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>31.5</b>
Midnight Blue Gelcoat (963LK188)	Usage (lbs): <b>212.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>31.5</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.88%	0.045
100-42-5	Styrene	23.24%	0.103
			HAP/TAP Lbs
			9.5
			21.9
<b>970XJ037</b>	Usage (gal): <b>3.7</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>3.9</b>
Patchaid (970XJ037)	Usage (lbs): <b>32.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>3.6</b>
		Density (lb/gal): <b>8.56</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	57.40%	0.111
			HAP/TAP Lbs
			3.6
<b>991GH369</b>	Usage (gal): <b>14.2</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>23.9</b>
Brite Green Gelcoat (991GH369)	Usage (lbs): <b>145.0</b>	HAP Content (wt%): <b>0.325</b>	HAPs (lbs): <b>23.9</b>
		Density (lb/gal): <b>10.22</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.62%	0.045
100-42-5	Styrene	26.89%	0.120
			HAP/TAP Lbs
			6.5
			17.3
<b>IPSAth</b>	Usage (gal): <b>330.7</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>206.7</b>
IPS Adhesive & Activator	Usage (lbs): <b>2,998.1</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>206.5</b>
		Density (lb/gal): <b>9.07</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	60.00%	0.069
			HAP/TAP Lbs
			206.5
<b>LSPK-2221</b>	Usage (gal): <b>734.6</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>250.2</b>
Polyester Resin (LSPK-2221)	Usage (lbs): <b>6,500.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>250.3</b>
		Density (lb/gal): <b>8.85</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	34.83%	0.039
			HAP/TAP Lbs
			250.3

708  
212  
0  
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920

99  
145  
0  
-----  
244

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **May 2008**

<b>MA300</b>	Usage (gal): <b>1.2</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>0.5</b>
ITW Plexus Adhesive (MA300)	Usage (lbs): <b>10.3</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>0.5</b>
		Density (lb/gal): <b>8.59</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	60.00%	0.048
			HAP/TAP Lbs
			0.5

11.2 gal  
10.3 gal  
0  
11.5

<b>MBA01</b>	Usage (gal): <b>242.9</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>161.8</b>
Westech HS-MAC18, HP-MAC18 & MPEA	Usage (lbs): <b>1,620.5</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0

gal  
728.6  
242.9  
971.5  
4861.5  
1620.5  
6481.5

<b>MBG02</b>	Usage (gal): <b>56.0</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>96.5</b>
Armorcote Moonbeam Gelcoat (991AK138)	Usage (lbs): <b>595.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>96.5</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.66%	0.110
			HAP/TAP Lbs
			31.2
			65.3

<b>MBG04</b>	Usage (gal): <b>9.1</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>14.7</b>
Armorcote Vapor Blue Gelcoat (991LK123)	Usage (lbs): <b>95.0</b>	HAP Content (wt%): <b>0.305</b>	HAPs (lbs): <b>14.7</b>
		Density (lb/gal): <b>10.43</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.98%	0.045
100-42-5	Styrene	24.56%	0.109
			HAP/TAP Lbs
			4.3
			10.4

<b>MBG04b</b>	Usage (gal): <b>18.7</b>	VOC Content (wt%): <b>0.319</b>	VOCs (lbs): <b>35.3</b>
Armorcote Dark Blue Gelcoat (991LK142)	Usage (lbs): <b>200.0</b>	HAP Content (wt%): <b>0.319</b>	HAPs (lbs): <b>35.3</b>
		Density (lb/gal): <b>10.71</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	9.12%	0.075
100-42-5	Styrene	22.78%	0.101
			HAP/TAP Lbs
			15.0
			20.3

0  
200  
0  
200

<b>MBG06</b>	Usage (gal): <b>630.8</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>1,182.0</b>
Armorcote White Gelcoat (991WH423)	Usage (lbs): <b>6,960.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>1,181.8</b>
		Density (lb/gal): <b>11.03</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.50%	0.053
100-42-5	Styrene	26.36%	0.117
			HAP/TAP Lbs
			365.4
			816.4

4640  
6960  
0  
11,600

<b>MBG08</b>	Usage (gal): <b>34.0</b>	VOC Content (wt%): <b>0.309</b>	VOCs (lbs): <b>54.8</b>
Armorcote Ruben Gelcoat (991RK111)	Usage (lbs): <b>347.0</b>	HAP Content (wt%): <b>0.309</b>	HAPs (lbs): <b>54.8</b>
		Density (lb/gal): <b>10.22</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.57%	0.045
100-42-5	Styrene	25.38%	0.113
			HAP/TAP Lbs
			15.6
			39.2

0  
347  
0  
347

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **May 2008**

<b>MBM01</b> MEKP9 (Clear & Red)	Usage (gal): <b>251.1</b> Usage (lbs): <b>2,304.0</b>	VOC Content (wt%): <b>0.450</b> HAP Content (wt%): <b>0.430</b> Density (lb/gal): <b>9.17</b>	VOCs (lbs): <b>85.7</b> HAPs (lbs): <b>39.6</b>	
CAS No 131-11-3	Chemical Dimethyl Phthalate	Weight % 43.00%	E-Factor 0.017	HAP/TAP Lbs <b>39.6</b>
<b>MBP01</b> EZ Bond Adhesive (5787W00077)	Usage (gal): <b>138.4</b> Usage (lbs): <b>1,050.0</b>	VOC Content (wt%): <b>0.300</b> HAP Content (wt%): <b>0.300</b> Density (lb/gal): <b>7.59</b>	VOCs (lbs): <b>39.7</b> HAPs (lbs): <b>39.7</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 30.00%	E-Factor 0.038	HAP/TAP Lbs <b>39.7</b>
<b>MBR02a</b> Resin (LHPC4121)	Usage (gal): <b>8,411.6</b> Usage (lbs): <b>78,220.0</b>	VOC Content (wt%): <b>0.326</b> HAP Content (wt%): <b>0.316</b> Density (lb/gal): <b>9.30</b>	VOCs (lbs): <b>2,731.4</b> HAPs (lbs): <b>2,643.8</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 31.62%	E-Factor 0.034	HAP/TAP Lbs <b>2,643.8</b>
<b>VLER-4000</b> VE Resin (VLER-4000)	Usage (gal): <b>154.2</b> Usage (lbs): <b>1,350.0</b>	VOC Content (wt%): <b>0.320</b> HAP Content (wt%): <b>0.320</b> Density (lb/gal): <b>8.76</b>	VOCs (lbs): <b>46.2</b> HAPs (lbs): <b>46.2</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 32.00%	E-Factor 0.034	HAP/TAP Lbs <b>46.2</b>
<b>Zyv GP</b> Zyvax Sealer GP	Usage (gal): <b>8.0</b> Usage (lbs): <b>58.4</b>	VOC Content (wt%): <b>0.900</b> HAP Content (wt%): <b>0.000</b> Density (lb/gal): <b>7.31</b>	VOCs (lbs): <b>52.6</b> HAPs (lbs): <b>0.0</b>	
CAS No	Chemical No reportable HAPs	Weight % 0.00%	E-Factor 0.000	HAP/TAP Lbs <b>0.0</b>

1,350  
1,350  
0  

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2,700  
0  
58.44  
0  

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58.44

	Month (lbs)	Month (tons)
VOCs:	6,995	3.50
HAPs:	6,569	3.28

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **May 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	40	0.02
80-62-6	Methyl Methacrylate	795	0.40
	No reportable HAPs	0	0.00
100-42-5	Styrene	5,734	2.87
	<b>Total</b>	<b>6,569</b>	<b>3.28</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	35,651	0	0	0.00
Total:		35,651		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	14,600	159	2,321	1.16
5788C90279	Patch Aid Reducer (5788C90279)	8	159	1	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	159	50	0.03
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	159	1,506	0.75
5799E90056	Charcoal Gelcoat (5799E90056)	180	159	29	0.01
5799L90035	Ca Yellow Gelcoat (5799L90035)	223	159	35	0.02
5799R90052	Regal Gelcoat (5799R90052)	315	159	50	0.03
953LK160	Dark Blue Gelcoat (953LK160)	5,598	159	890	0.45
963LK160	Dark Blue Gelcoat (963LK160)	2,331	159	371	0.19
963LK188	Midnight Blue Gelcoat (963LK188)	4,368	159	695	0.35
963RK139	Rueben Gelcoat (963RK139)	3,144	159	500	0.25
963RK140	Regal Gelcoat (963RK140)	11,968	159	1,903	0.95
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,386	159	379	0.19
963XA221	Marine Clear Gelcoat (963XA221)	2,670	159	425	0.21
967BK150	Black Barrier Coat (967BK150)	72,605	159	11,544	5.77
991GH359	Polo Green Gelcoat (991GH359)	153	159	24	0.01
991GH369	Brite Green Gelcoat (991GH369)	1,998	159	318	0.16
991NH788	Brown Gelcoat (991NH788)	2,290	159	364	0.18
991PK105	Black Iris Gelcoat (991PK105)	523	159	83	0.04
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit			12 Months Ending:		May 2008
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,051	159	644	0.32
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,094	159	174	0.09
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,387	159	380	0.19
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,475	159	235	0.12
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,459	159	550	0.27
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	159	219	0.11
MBG06	Armorcote White Gelcoat (991WH423)	82,357	159	13,095	6.55
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,033	159	641	0.32
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,866	159	297	0.15
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	159	73	0.04
Total:		253,744		40,345	20.17

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	88,340	46	4,064	2.03
MBR02	Resin (LHPC3523)	278,120	46	12,794	6.40
MBR02a	Resin (LHPC4121)	678,440	46	31,208	15.60
VLER-4000	VE Resin (VLER-4000)	13,500	46	621	0.31
VSXH-2200	VE Resin (VSXH-2200)	7,500	46	345	0.17

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending:</b>	<b>May 2008</b>
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Total:	1,065,900	49,031	24.52
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,223	214	476	0.24
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		2,268		485	0.24

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	32,500	54	1,755	0.88
Total:		32,500		1,755	0.88

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	91,617	45.81

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	35,651	0.000	0.0	0
Total:		35,651			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	14,600	0.300	132.6	1,936
5788C90279	Patch Aid Reducer (5788C90279)	8	0.558	375.4	3
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	0.317	145.2	46
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	0.316	144.4	1,367
5799E90056	Charcoal Gelcoat (5799E90056)	180	0.315	144.2	26
5799L90035	Ca Yellow Gelcoat (5799L90035)	223	0.328	154.4	34
5799R90052	Regal Gelcoat (5799R90052)	315	0.319	147.1	46
953LK160	Dark Blue Gelcoat (953LK160)	5,598	0.362	181.8	1,018
963LK160	Dark Blue Gelcoat (963LK160)	2,331	0.286	122.1	285
963LK188	Midnight Blue Gelcoat (963LK188)	4,368	0.291	126.1	551
963RK139	Rueben Gelcoat (963RK139)	3,144	0.287	123.0	387
963RK140	Regal Gelcoat (963RK140)	11,968	0.288	123.7	1,480
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,386	0.449	260.3	621



Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report				12 Months Ending:	May 2008
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ID	Product Name	Weight	Concentration	12 Months Total	May 2008
963XA221	Marine Clear Gelcoat (963XA221)	2,670	0.447	258.9	691
967BK150	Black Barrier Coat (967BK150)	72,605	0.321	148.8	10,803
991GH359	Polo Green Gelcoat (991GH359)	153	0.328	153.6	24
991GH369	Brite Green Gelcoat (991GH369)	1,998	0.325	151.7	303
991NH788	Brown Gelcoat (991NH788)	2,290	0.318	146.4	335
991PK105	Black Iris Gelcoat (991PK105)	523	0.312	141.8	74
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,051	0.308	138.8	562
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,094	0.320	147.8	162
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,387	0.328	153.7	367
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,475	0.305	136.6	202
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,459	0.304	135.9	470
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	0.302	133.7	184
MBG06	Armorcote White Gelcoat (991WH423)	82,357	0.329	154.4	12,720
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,033	0.306	137.3	554
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,866	0.306	137.1	256
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending:**      **May 2008**

MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	0.314	143.2	65
<b>Total:</b>		<b>253,744</b>			<b>37,759</b>
Weighted Average MACT Model Point Value:		148.8			
Intermediate MACT Model Point Value (lbs):		37,759			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	88,340	0.348	45.1	3,984
MBR02	Resin (LHPC3523)	278,120	0.316	36.2	10,064
MBR02a	Resin (LHPC4121)	678,440	0.316	36.2	24,550
VLER-4000	VE Resin (VLER-4000)	13,500	0.320	37.2	502
VSXH-2200	VE Resin (VSXH-2200)	7,500	0.349	45.3	339
<b>Total:</b>		<b>1,065,900</b>			<b>39,439</b>
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		39,439			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,223	0.358	178.7	397
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
<b>Total:</b>		<b>2,268</b>			<b>410</b>
Weighted Average MACT Model Point Value:		180.7			
Intermediate MACT Model Point Value (lbs):		410			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	32,500	0.280	27.4	892

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending:</b>	<b>May 2008</b>
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Total:	32,500	892
Weighted Average MACT Model Point Value:	27.4	
Intermediate MACT Model Point Value (lbs):	892	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	78,500	39.25

**Malibu Boats Merced Plant: Monthly & 12 Month Rolling Emissions Summary** **Year Ending: June 2008**

<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **June 2008**

<b>200LK202</b> Black Barrier Coat (200LK202)	Usage (gal): <b>508.3</b> Usage (lbs): <b>4,900.0</b>	VOC Content (wt%): <b>0.305</b> HAP Content (wt%): <b>0.300</b> Density (lb/gal): <b>9.64</b>	VOCs (lbs): <b>667.6</b> HAPs (lbs): <b>654.1</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 30.00%	E-Factor 0.133	HAP/TAP Lbs 654.1
<b>5788C90007</b> Surfacing Agent 85-X3 (5788C90007)	Usage (gal): <b>5.0</b> Usage (lbs): <b>37.5</b>	VOC Content (wt%): <b>0.950</b> HAP Content (wt%): <b>0.950</b> Density (lb/gal): <b>7.50</b>	VOCs (lbs): <b>35.6</b> HAPs (lbs): <b>35.6</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 95.00%	E-Factor 0.950	HAP/TAP Lbs 35.6
<b>5799L90035</b> Ca Yellow Gelcoat (5799L90035)	Usage (gal): <b>13.2</b> Usage (lbs): <b>135.0</b>	VOC Content (wt%): <b>0.336</b> HAP Content (wt%): <b>0.328</b> Density (lb/gal): <b>10.21</b>	VOCs (lbs): <b>22.6</b> HAPs (lbs): <b>21.5</b>	
CAS No 80-62-6 100-42-5	Chemical Methyl Methacrylate Styrene	Weight % 3.76% 29.09%	E-Factor 0.030 0.129	HAP/TAP Lbs 4.1 17.5
<b>5799R90052</b> Regal Gelcoat (5799R90052)	Usage (gal): <b>91.2</b> Usage (lbs): <b>945.0</b>	VOC Content (wt%): <b>0.328</b> HAP Content (wt%): <b>0.319</b> Density (lb/gal): <b>10.36</b>	VOCs (lbs): <b>159.5</b> HAPs (lbs): <b>150.8</b>	
CAS No 80-62-6 100-42-5	Chemical Methyl Methacrylate Styrene	Weight % 4.47% 27.44%	E-Factor 0.038 0.122	HAP/TAP Lbs 35.4 115.4
<b>963LK160</b> Dark Blue Gelcoat (963LK160)	Usage (gal): <b>47.9</b> Usage (lbs): <b>508.0</b>	VOC Content (wt%): <b>0.301</b> HAP Content (wt%): <b>0.286</b> Density (lb/gal): <b>10.60</b>	VOCs (lbs): <b>81.3</b> HAPs (lbs): <b>74.4</b>	
CAS No 80-62-6 100-42-5	Chemical Methyl Methacrylate Styrene	Weight % 5.77% 22.78%	E-Factor 0.045 0.101	HAP/TAP Lbs 22.9 51.5
<b>963RK139</b> Rueben Gelcoat (963RK139)	Usage (gal): <b>9.8</b> Usage (lbs): <b>104.0</b>	VOC Content (wt%): <b>0.290</b> HAP Content (wt%): <b>0.287</b> Density (lb/gal): <b>10.57</b>	VOCs (lbs): <b>15.7</b> HAPs (lbs): <b>15.4</b>	
CAS No 80-62-6 100-42-5	Chemical Methyl Methacrylate Styrene	Weight % 5.57% 23.11%	E-Factor 0.045 0.103	HAP/TAP Lbs 4.7 10.7
<b>970XJ037</b> Patchaid (970XJ037)	Usage (gal): <b>4.7</b> Usage (lbs): <b>40.0</b>	VOC Content (wt%): <b>0.583</b> HAP Content (wt%): <b>0.574</b> Density (lb/gal): <b>8.56</b>	VOCs (lbs): <b>4.8</b> HAPs (lbs): <b>4.5</b>	
CAS No 100-42-5	Chemical Styrene	Weight % 57.40%	E-Factor 0.111	HAP/TAP Lbs 4.5

9,700  
4,900  
4,900  

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19,500

8  
37.5  

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37.5

223 lbs  
135 lbs  

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358

315  
945 lbs  

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1,260 lbs

562  
424  
508  

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1,494

146  
0  
104  

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250

24  
32  
40  

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96

**Mallibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **June 2008**

Product ID	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)
<b>991GH359</b>	<b>24.8</b>	<b>254.0</b>	<b>0.328</b>	<b>0.328</b>	<b>10.24</b>	<b>42.2</b>	<b>42.2</b>
Polo Green Gelcoat (991GH359)							
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	5.54%	0.045	11.4			
100-42-5	Styrene	27.21%	0.121	30.8			
<b>991NH788</b>	<b>8.8</b>	<b>92.0</b>	<b>0.318</b>	<b>0.318</b>	<b>10.45</b>	<b>15.3</b>	<b>15.3</b>
Brown Gelcoat (991NH788)							
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.23%	0.053	4.8			
100-42-5	Styrene	25.60%	0.114	10.5			
<b>991PK105</b>	<b>9.3</b>	<b>96.0</b>	<b>0.328</b>	<b>0.312</b>	<b>10.37</b>	<b>17.0</b>	<b>15.5</b>
Black Iris Gelcoat (991PK105)							
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.81%	0.053	5.0			
100-42-5	Styrene	24.41%	0.109	10.4			
<b>IPSAth</b>	<b>127.4</b>	<b>1,155.0</b>	<b>0.600</b>	<b>0.600</b>	<b>9.07</b>	<b>79.6</b>	<b>79.6</b>
IPS Adhesive & Activator							
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	60.00%	0.069	79.6			
<b>LSPK-2221</b>	<b>452.0</b>	<b>4,000.0</b>	<b>0.348</b>	<b>0.348</b>	<b>8.85</b>	<b>154.0</b>	<b>154.0</b>
Polyester Resin (LSPK-2221)							
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
100-42-5	Styrene	34.83%	0.039	154.0			
<b>MBG02</b>	<b>19.6</b>	<b>208.0</b>	<b>0.308</b>	<b>0.308</b>	<b>10.63</b>	<b>33.7</b>	<b>33.7</b>
Armorcote Moonbeam Gelcoat (991AK138)							
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.17%	0.053	10.9			
100-42-5	Styrene	24.66%	0.110	22.8			
<b>MBG04</b>	<b>9.1</b>	<b>95.0</b>	<b>0.305</b>	<b>0.305</b>	<b>10.43</b>	<b>14.7</b>	<b>14.7</b>
Armorcote Vapor Blue Gelcoat (991LK123)							
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	5.98%	0.045	4.3			
100-42-5	Styrene	24.56%	0.109	10.4			

0  
254  
254

0  
0  
92  
92

0  
0  
96  
96

208.1 gal  
330.7 gal  
127.4 gal  
666.2 gal

4500  
6,500  
4,000  
15,000

198  
595  
208  
1,001

201.0  
95.0  
95.0  
391

**Mailbu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **June 2008**

Product	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)
<b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	18.6	198.0	0.304	0.304	10.63	31.9	31.9
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.07%	0.053	10.4			
100-42-5	Styrene	24.37%	0.109	21.5			
<b>MBG05a</b> Armorcote Platinum Gelcoat (991NK124)	18.2	195.0	0.301	0.302	10.73	31.1	31.1
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
80-62-6	Methyl Methacrylate	6.10%	0.053	10.2			
100-42-5	Styrene	24.05%	0.107	20.9			
<b>MBM01</b> MEKP9 (Clear & Red)	62.8	576.0	0.450	0.430	9.17	21.4	9.9
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
131-11-3	Dimethyl Phthalate	43.00%	0.017	9.9			
<b>MBP01</b> EZ Bond Adhesive (5787W00077)	92.2	700.0	0.300	0.300	7.59	26.5	26.5
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
100-42-5	Styrene	30.00%	0.038	26.5			
<b>MBR02a</b> Resin (LHPC4121)	4,187.5	38,940.0	0.326	0.316	9.30	1,359.8	1,316.2
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
100-42-5	Styrene	31.62%	0.034	1,316.2			
<b>VSXH-2200</b> VE Resin (VSXH-2200)	109.4	1,000.0	0.364	0.349	9.14	54.0	38.5
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs			
100-42-5	Styrene	34.89%	0.039	38.5			

156  
0  
198  

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354

0  
0  
195  

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195

92.2 gal  
38.4 gal  
92.2 gal  

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322.8

79,560  
78,220  
38,940  

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196,720

1,500  
0  
1,000  

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2,500

	Month (lbs)	Month (tons)
<b>VOCs:</b>	2,868	1.43
<b>HAPs:</b>	2,765	1.38

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **June 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	10	0.00
80-62-6	Methyl Methacrylate	204	0.10
100-42-5	Styrene	2,552	1.28
	<b>Total</b>	<b>2,765</b>	<b>1.38</b>



*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	32,410	0	0	0.00
Total:		32,410		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	19,500	159	3,101	1.55
5788C90279	Patch Aid Reducer (5788C90279)	8	159	1	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	159	50	0.03
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	159	1,506	0.75
5799E90056	Charcoal Gelcoat (5799E90056)	180	159	29	0.01
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	1,260	159	200	0.10
953LK160	Dark Blue Gelcoat (953LK160)	4,127	159	656	0.33
963LK160	Dark Blue Gelcoat (963LK160)	2,839	159	451	0.23
963LK188	Midnight Blue Gelcoat (963LK188)	3,896	159	619	0.31
963RK139	Rueben Gelcoat (963RK139)	2,334	159	371	0.19
963RK140	Regal Gelcoat (963RK140)	11,127	159	1,769	0.88
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,386	159	379	0.19
963XA221	Marine Clear Gelcoat (963XA221)	2,670	159	425	0.21
967BK150	Black Barrier Coat (967BK150)	60,485	159	9,617	4.81
991GH359	Polo Green Gelcoat (991GH359)	407	159	65	0.03
991GH369	Brite Green Gelcoat (991GH369)	1,897	159	302	0.15
991NH788	Brown Gelcoat (991NH788)	2,122	159	337	0.17
991PK105	Black Iris Gelcoat (991PK105)	574	159	91	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>			<b>12 Months Ending:</b>		<b>June 2008</b>
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9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,633	159	578	0.29
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,094	159	174	0.09
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,089	159	332	0.17
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,414	159	225	0.11
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,392	159	539	0.27
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,466	159	233	0.12
MBG06	Armorcote White Gelcoat (991WH423)	73,657	159	11,711	5.86
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	3,675	159	584	0.29
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,560	159	248	0.12
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	159	73	0.04
<b>Total:</b>		<b>234,437</b>		<b>37,275</b>	<b>18.64</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	82,740	46	3,806	1.90
MBR02	Resin (LHPC3523)	278,120	46	12,794	6.40
MBR02a	Resin (LHPC4121)	637,080	46	29,306	14.65
VLER-4000	VE Resin (VLER-4000)	11,250	46	518	0.26
VSXH-2200	VE Resin (VSXH-2200)	8,500	46	391	0.20

Total:	1,017,690	46,814	23.41
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,773	214	379	0.19
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		1,818		389	0.19

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	30,000	54	1,620	0.81
Total:		30,000		1,620	0.81

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	86,098	43.05

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	32,410	0.000	0.0	0
Total:		32,410			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	19,500	0.300	132.6	2,585
5788C90279	Patch Aid Reducer (5788C90279)	8	0.558	375.4	3
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	0.317	145.2	46
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	0.316	144.4	1,367
5799E90056	Charcoal Gelcoat (5799E90056)	180	0.315	144.2	26
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	1,260	0.319	147.1	185
953LK160	Dark Blue Gelcoat (953LK160)	4,127	0.362	181.8	750
963LK160	Dark Blue Gelcoat (963LK160)	2,839	0.286	122.1	347
963LK188	Midnight Blue Gelcoat (963LK188)	3,896	0.291	126.1	491
963RK139	Rueben Gelcoat (963RK139)	2,334	0.287	123.0	287
963RK140	Regal Gelcoat (963RK140)	11,127	0.288	123.7	1,376
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,386	0.449	260.3	621

Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report				12 Months Ending:	June 2008
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963XA221	Marine Clear Gelcoat (963XA221)	2,670	0.447	258.9	691
967BK150	Black Barrier Coat (967BK150)	60,485	0.321	148.8	9,000
991GH359	Polo Green Gelcoat (991GH359)	407	0.328	153.6	63
991GH369	Brite Green Gelcoat (991GH369)	1,897	0.325	151.7	288
991NH788	Brown Gelcoat (991NH788)	2,122	0.318	146.4	311
991PK105	Black Iris Gelcoat (991PK105)	574	0.312	141.8	81
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,633	0.308	138.8	504
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,094	0.320	147.8	162
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,089	0.328	153.7	321
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,414	0.305	136.6	193
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,392	0.304	135.9	461
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,466	0.302	133.7	196
MBG06	Armorcote White Gelcoat (991WH423)	73,657	0.329	154.4	11,376
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	3,675	0.306	137.3	505
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,560	0.306	137.1	214
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending:**      **June 2008**

MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	0.314	143.2	65

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Total:	234,437	34,759
Weighted Average MACT Model Point Value:	148.3	
Intermediate MACT Model Point Value (lbs):	34,759	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	82,740	0.348	45.1	3,731
MBR02	Resin (LHPC3523)	278,120	0.316	36.2	10,064
MBR02a	Resin (LHPC4121)	637,080	0.316	36.2	23,053
VLER-4000	VE Resin (VLER-4000)	11,250	0.320	37.2	418
VSXH-2200	VE Resin (VSXH-2200)	8,500	0.349	45.3	385

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Total:	1,017,690	37,652
Weighted Average MACT Model Point Value:	37.0	
Intermediate MACT Model Point Value (lbs):	37,652	

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,773	0.358	178.7	317
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13

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Total:	1,818	330
Weighted Average MACT Model Point Value:	181.3	
Intermediate MACT Model Point Value (lbs):	330	

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	30,000	0.280	27.4	823

Total:	30,000	823
Weighted Average MACT Model Point Value:	27.4	
Intermediate MACT Model Point Value (lbs):	823	

	Pounds	Tons
Final MACT Model Point Value:	73,564	36.78

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>July 2008</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02



**Mallbu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **July 2008**

<b>200LK202</b>	Usage (gal): <b>457.5</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>600.9</b>
Black Barrier Coat (200LK202)	Usage (lbs): <b>4,410.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>588.7</b>
		Density (lb/gal): <b>9.64</b>	

CAS No 100-42-5	Chemical Styrene	Weight % 30.00%	E-Factor 0.133	HAP/TAP Lbs 588.7
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<b>5788C90279</b>	Usage (gal): <b>2.0</b>	VOC Content (wt%): <b>0.560</b>	VOCs (lbs): <b>1.8</b>
Patch Aid Reducer (5788C90279)	Usage (lbs): <b>17.0</b>	HAP Content (wt%): <b>0.558</b>	HAPs (lbs): <b>1.8</b>
		Density (lb/gal): <b>8.33</b>	

CAS No 100-42-5	Chemical Styrene	Weight % 55.84%	E-Factor 0.107	HAP/TAP Lbs 1.8
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<b>5799R90052</b>	Usage (gal): <b>17.4</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>30.4</b>
Regal Gelcoat (5799R90052)	Usage (lbs): <b>180.0</b>	HAP Content (wt%): <b>0.319</b>	HAPs (lbs): <b>28.7</b>
		Density (lb/gal): <b>10.36</b>	

CAS No 80-62-6	Chemical Methyl Methacrylate	Weight % 4.47%	E-Factor 0.038	HAP/TAP Lbs 6.7
100-42-5	Styrene	27.44%	0.122	22.0

<b>963XA221</b>	Usage (gal): <b>42.7</b>	VOC Content (wt%): <b>0.453</b>	VOCs (lbs): <b>93.1</b>
Marine Clear Gelcoat (963XA221)	Usage (lbs): <b>375.0</b>	HAP Content (wt%): <b>0.447</b>	HAPs (lbs): <b>91.1</b>
		Density (lb/gal): <b>8.78</b>	

CAS No 80-62-6	Chemical Methyl Methacrylate	Weight % 10.00%	E-Factor 0.075	HAP/TAP Lbs 28.1
100-42-5	Styrene	34.73%	0.168	63.0

<b>965BK183</b>	Usage (gal): <b>48.8</b>	VOC Content (wt%): <b>0.409</b>	VOCs (lbs): <b>99.2</b>
Black VE Tooling (965BK183)	Usage (lbs): <b>450.0</b>	HAP Content (wt%): <b>0.358</b>	HAPs (lbs): <b>80.1</b>
		Density (lb/gal): <b>9.23</b>	

CAS No 100-42-5	Chemical Styrene	Weight % 35.84%	E-Factor 0.178	HAP/TAP Lbs 80.1
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<b>970XJ037</b>	Usage (gal): <b>3.7</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>3.9</b>
Patchaid (970XJ037)	Usage (lbs): <b>32.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>3.6</b>
		Density (lb/gal): <b>8.56</b>	

CAS No 100-42-5	Chemical Styrene	Weight % 57.40%	E-Factor 0.111	HAP/TAP Lbs 3.6
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<b>IPSAdh</b>	Usage (gal): <b>193.8</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>121.1</b>
IPS Adhesive & Activator	Usage (lbs): <b>1,756.5</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>121.0</b>
		Density (lb/gal): <b>9.07</b>	

CAS No 80-62-6	Chemical Methyl Methacrylate	Weight % 60.00%	E-Factor 0.069	HAP/TAP Lbs 121.0
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**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **July 2008**

<b>MA300</b>	Usage (gal): <b>12.0</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>5.0</b>
ITW Plexus Adhesive (MA300)	Usage (lbs): <b>103.5</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>5.0</b>
		Density (lb/gal): <b>8.59</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	60.00%	0.048
			HAP/TAP Lbs
			5.0
<b>MBA01</b>	Usage (gal): <b>121.4</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>80.9</b>
Westech HS-MAC18, HP-MAC18 & MPEA	Usage (lbs): <b>810.2</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0
<b>MBG05</b>	Usage (gal): <b>19.6</b>	VOC Content (wt%): <b>0.304</b>	VOCs (lbs): <b>33.5</b>
Armorcote Light Graphite Gelcoat (991NK123)	Usage (lbs): <b>208.0</b>	HAP Content (wt%): <b>0.304</b>	HAPs (lbs): <b>33.5</b>
		Density (lb/gal): <b>10.63</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.07%	0.053
100-42-5	Styrene	24.37%	0.109
			HAP/TAP Lbs
			10.9
			22.6
<b>MBG06</b>	Usage (gal): <b>210.3</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>394.0</b>
Armorcote White Gelcoat (991WH423)	Usage (lbs): <b>2,320.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>393.9</b>
		Density (lb/gal): <b>11.03</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.50%	0.053
100-42-5	Styrene	26.36%	0.117
			HAP/TAP Lbs
			121.8
			272.1
<b>MBM01</b>	Usage (gal): <b>111.6</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>38.1</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>1,024.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>17.6</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
			HAP/TAP Lbs
			17.6
<b>MBM02</b>	Usage (gal): <b>54.9</b>	VOC Content (wt%): <b>0.008</b>	VOCs (lbs): <b>3.8</b>
Aquawash (095-0040)	Usage (lbs): <b>467.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>8.51</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0
<b>MBP01</b>	Usage (gal): <b>138.4</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>39.7</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>1,050.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>39.7</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs
			39.7

54.9 gal  
0  
54.9 gal

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **July 2008**

<b>MBR02a</b>	Usage (gal): <b>4,335.9</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,408.0</b>
Resin (LHPC4121)	Usage (lbs): <b>40,320.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,362.8</b>
		Density (lb/gal): <b>9.30</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	31.62%	0.034	1,362.8

<b>VLER-4000</b>	Usage (gal): <b>114.2</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>34.2</b>
VE Resin (VLER-4000)	Usage (lbs): <b>1,000.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>34.2</b>
		Density (lb/gal): <b>8.76</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.00%	0.034	34.2

1,000  
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1000

<b>VSXH-2200</b>	Usage (gal): <b>382.8</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>188.9</b>
VE Resin (VSXH-2200)	Usage (lbs): <b>3,500.0</b>	HAP Content (wt%): <b>0.349</b>	HAPs (lbs): <b>134.7</b>
		Density (lb/gal): <b>9.14</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	34.89%	0.039	134.7

3500  
0  
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0

	Month (lbs)	Month (tons)
VOCs:	3,177	1.59
HAPs:	2,937	1.47

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **July 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	18	0.01
80-62-6	Methyl Methacrylate	294	0.15
	No reportable HAPs	0	0.00
100-42-5	Styrene	2,625	1.31
	<b>Total</b>	<b>2,937</b>	<b>1.47</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	29,979	0	0	0.00
Total:		29,979		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	23,910	159	3,802	1.90
5788C90279	Patch Aid Reducer (5788C90279)	25	159	4	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	159	50	0.03
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	159	1,506	0.75
5799E90056	Charcoal Gelcoat (5799E90056)	180	159	29	0.01
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	1,440	159	229	0.11
953LK160	Dark Blue Gelcoat (953LK160)	3,507	159	558	0.28
963LK160	Dark Blue Gelcoat (963LK160)	2,839	159	451	0.23
963LK188	Midnight Blue Gelcoat (963LK188)	3,580	159	569	0.28
963RK139	Rueben Gelcoat (963RK139)	2,238	159	356	0.18
963RK140	Regal Gelcoat (963RK140)	9,878	159	1,571	0.79
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,793	159	285	0.14
963XA221	Marine Clear Gelcoat (963XA221)	3,045	159	484	0.24
967BK150	Black Barrier Coat (967BK150)	58,465	159	9,296	4.65
991GH359	Polo Green Gelcoat (991GH359)	407	159	65	0.03
991GH369	Brite Green Gelcoat (991GH369)	1,897	159	302	0.15
991NH788	Brown Gelcoat (991NH788)	1,869	159	297	0.15
991PK105	Black Iris Gelcoat (991PK105)	574	159	91	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit			12 Months Ending:		July 2008
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,333	159	530	0.26
MBG02a	Armorcote Marble Gelcoat (991AK139)	938	159	149	0.07
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,891	159	301	0.15
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,311	159	208	0.10
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,289	159	523	0.26
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,046	159	166	0.08
MBG06	Armorcote White Gelcoat (991WH423)	71,317	159	11,339	5.67
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	3,272	159	520	0.26
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,206	159	192	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	159	73	0.04
Total:		229,895		36,553	18.28

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	77,940	46	3,585	1.79
MBR02	Resin (LHPC3523)	278,120	46	12,794	6.40
MBR02a	Resin (LHPC4121)	594,120	46	27,330	13.66
VLER-4000	VE Resin (VLER-4000)	10,450	46	481	0.24
VSXH-2200	VE Resin (VSXH-2200)	12,000	46	552	0.28

Total:	972,630	44,741	22.37
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,223	214	476	0.24
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		2,268		485	0.24

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	28,500	54	1,539	0.77
Total:		28,500		1,539	0.77

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	83,319	41.66

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	29,979	0.000	0.0	0
Total:		29,979			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	23,910	0.300	132.6	3,170
5788C90279	Patch Aid Reducer (5788C90279)	25	0.558	375.4	9
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	0.317	145.2	46
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	0.316	144.4	1,367
5799E90056	Charcoal Gelcoat (5799E90056)	180	0.315	144.2	26
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	1,440	0.319	147.1	212
953LK160	Dark Blue Gelcoat (953LK160)	3,507	0.362	181.8	638
963LK160	Dark Blue Gelcoat (963LK160)	2,839	0.286	122.1	347
963LK188	Midnight Blue Gelcoat (963LK188)	3,580	0.291	126.1	452
963RK139	Rueben Gelcoat (963RK139)	2,238	0.287	123.0	275
963RK140	Regal Gelcoat (963RK140)	9,878	0.288	123.7	1,222
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,793	0.449	260.3	467



<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>July 2008</b>
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ID	Description	Points	MACT	Value	Count
963XA221	Marine Clear Gelcoat (963XA221)	3,045	0.447	258.9	788
967BK150	Black Barrier Coat (967BK150)	58,465	0.321	148.8	8,699
991GH359	Polo Green Gelcoat (991GH359)	407	0.328	153.6	63
991GH369	Brite Green Gelcoat (991GH369)	1,897	0.325	151.7	288
991NH788	Brown Gelcoat (991NH788)	1,869	0.318	146.4	274
991PK105	Black Iris Gelcoat (991PK105)	574	0.312	141.8	81
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,333	0.308	138.8	463
MBG02a	Armorcote Marble Gelcoat (991AK139)	938	0.320	147.8	139
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,891	0.328	153.7	291
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,311	0.305	136.6	179
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,289	0.304	135.9	447
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,046	0.302	133.7	140
MBG06	Armorcote White Gelcoat (991WH423)	71,317	0.329	154.4	11,015
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	3,272	0.306	137.3	449
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,206	0.306	137.1	165
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>July 2008</b>
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MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	0.314	143.2	65
Total:		229,895			34,018
Weighted Average MACT Model Point Value:		148.0			
Intermediate MACT Model Point Value (lbs):		34,018			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	77,940	0.348	45.1	3,515
MBR02	Resin (LHPC3523)	278,120	0.316	36.2	10,064
MBR02a	Resin (LHPC4121)	594,120	0.316	36.2	21,499
VLER-4000	VE Resin (VLER-4000)	10,450	0.320	37.2	389
VSXH-2200	VE Resin (VSXH-2200)	12,000	0.349	45.3	543
Total:		972,630			36,009
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		36,009			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,223	0.358	178.7	397
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
Total:		2,268			410
Weighted Average MACT Model Point Value:		180.7			
Intermediate MACT Model Point Value (lbs):		410			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	28,500	0.280	27.4	782

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending:</b>	<b>July 2008</b>
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Total:	28,500	782
Weighted Average MACT Model Point Value:	27.4	
Intermediate MACT Model Point Value (lbs):	782	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	71,220	35.61

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>August 2008</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02
August 2008	2.70	40.08	2.44	36.09	2.02	31.55

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **August 2008**

<b>040-8094</b>	Usage (gal): <b>109.3</b>	VOC Content (wt%): <b>0.470</b>	VOCs (lbs): <b>125.4</b>
CCP Optiplus Resin (040-8094)	Usage (lbs): <b>960.0</b>	HAP Content (wt%): <b>0.382</b>	HAPs (lbs): <b>41.4</b>
		Density (lb/gal): <b>8.78</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.54%	0.002	1.6
100-42-5	Styrene	36.67%	0.042	39.8

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960  
0  

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960

<b>5788C90007</b>	Usage (gal): <b>5.0</b>	VOC Content (wt%): <b>0.950</b>	VOCs (lbs): <b>35.6</b>
Surfacing Agent 85-X3 (5788C90007)	Usage (lbs): <b>37.5</b>	HAP Content (wt%): <b>0.950</b>	HAPs (lbs): <b>35.6</b>
		Density (lb/gal): <b>7.50</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	95.00%	0.950	35.6

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37.5  
0  

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37.5

<b>5799B90020</b>	Usage (gal): <b>485.4</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>798.4</b>
Aztec Black Gelcoat (5799B90020)	Usage (lbs): <b>5,000.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>749.5</b>
		Density (lb/gal): <b>10.30</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.25%	0.015	75.0
100-42-5	Styrene	30.31%	0.135	674.5

<b>5799E90056</b>	Usage (gal): <b>94.4</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>165.3</b>
Charcoal Gelcoat (5799E90056)	Usage (lbs): <b>990.0</b>	HAP Content (wt%): <b>0.315</b>	HAPs (lbs): <b>155.9</b>
		Density (lb/gal): <b>10.49</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.58%	0.038	37.1
100-42-5	Styrene	26.97%	0.120	118.8

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990

<b>5799R90052</b>	Usage (gal): <b>82.5</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>144.3</b>
Regal Gelcoat (5799R90052)	Usage (lbs): <b>855.0</b>	HAP Content (wt%): <b>0.319</b>	HAPs (lbs): <b>136.5</b>
		Density (lb/gal): <b>10.36</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.47%	0.038	32.1
100-42-5	Styrene	27.44%	0.122	104.4

<b>963LK160</b>	Usage (gal): <b>18.8</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>31.8</b>
Dark Blue Gelcoat (963LK160)	Usage (lbs): <b>199.0</b>	HAP Content (wt%): <b>0.286</b>	HAPs (lbs): <b>29.1</b>
		Density (lb/gal): <b>10.60</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.77%	0.045	9.0
100-42-5	Styrene	22.78%	0.101	20.2

**Mallibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **August 2008**

<b>963RK139</b>	Usage (gal): <b>8.6</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>13.7</b>
Rueben Gelcoat (963RK139)	Usage (lbs): <b>91.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>13.5</b>
		Density (lb/gal): <b>10.57</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.57%	0.045
100-42-5	Styrene	23.11%	0.103
			HAP/TAP Lbs
			4.1
			9.4
<b>963XA221</b>	Usage (gal): <b>162.9</b>	VOC Content (wt%): <b>0.453</b>	VOCs (lbs): <b>354.8</b>
Marine Clear Gelcoat (963XA221)	Usage (lbs): <b>1,430.0</b>	HAP Content (wt%): <b>0.447</b>	HAPs (lbs): <b>347.5</b>
		Density (lb/gal): <b>8.78</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	10.00%	0.075
100-42-5	Styrene	34.73%	0.168
			HAP/TAP Lbs
			107.3
			240.2
<b>965BK183</b>	Usage (gal): <b>48.6</b>	VOC Content (wt%): <b>0.409</b>	VOCs (lbs): <b>98.8</b>
Black VE Tooling (965BK183)	Usage (lbs): <b>448.0</b>	HAP Content (wt%): <b>0.358</b>	HAPs (lbs): <b>79.7</b>
		Density (lb/gal): <b>9.23</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	35.84%	0.178
			HAP/TAP Lbs
			79.7
<b>967BK150</b>	Usage (gal): <b>208.1</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>361.2</b>
Black Barrier Coat (967BK150)	Usage (lbs): <b>2,020.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>288.9</b>
		Density (lb/gal): <b>9.71</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	32.14%	0.143
			HAP/TAP Lbs
			288.9
<b>970XJ037</b>	Usage (gal): <b>3.7</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>3.9</b>
Patchaid (970XJ037)	Usage (lbs): <b>32.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>3.6</b>
		Density (lb/gal): <b>8.56</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	57.40%	0.111
			HAP/TAP Lbs
			3.6
<b>991GH359</b>	Usage (gal): <b>23.5</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>40.0</b>
Polo Green Gelcoat (991GH359)	Usage (lbs): <b>241.0</b>	HAP Content (wt%): <b>0.328</b>	HAPs (lbs): <b>40.0</b>
		Density (lb/gal): <b>10.24</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.54%	0.045
100-42-5	Styrene	27.21%	0.121
			HAP/TAP Lbs
			10.8
			29.2
<b>991GH369</b>	Usage (gal): <b>34.3</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>57.6</b>
Brite Green Gelcoat (991GH369)	Usage (lbs): <b>350.0</b>	HAP Content (wt%): <b>0.325</b>	HAPs (lbs): <b>57.6</b>
		Density (lb/gal): <b>10.22</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.62%	0.045
100-42-5	Styrene	26.89%	0.120
			HAP/TAP Lbs
			15.8
			41.9

375  
1430  
0  
-----  
1805

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **August 2008**

<b>991NH788</b>	Usage (gal): <b>48.2</b>	VOC Content (wt%): <b>0.318</b>	VOCs (lbs): <b>83.9</b>
Brown Gelcoat (991NH788)	Usage (lbs): <b>504.0</b>	HAP Content (wt%): <b>0.318</b>	HAPs (lbs): <b>83.9</b>
		Density (lb/gal): <b>10.45</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.23%	0.053	26.5
100-42-5	Styrene	25.60%	0.114	57.4

<b>991PK105</b>	Usage (gal): <b>33.0</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>60.6</b>
Black Iris Gelcoat (991PK105)	Usage (lbs): <b>342.0</b>	HAP Content (wt%): <b>0.312</b>	HAPs (lbs): <b>55.1</b>
		Density (lb/gal): <b>10.37</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.81%	0.053	18.0
100-42-5	Styrene	24.41%	0.109	37.2

0  
342  
0

<b>Flex-Z</b>	Usage (gal): <b>8.0</b>	VOC Content (wt%): <b>0.900</b>	VOCs (lbs): <b>42.0</b>
Flex-Z 1, 2, 3, 4, 5 & 6	Usage (lbs): <b>46.7</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>5.84</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

0  
8  
0

<b>IPSAdh</b>	Usage (gal): <b>198.5</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>124.1</b>
IPS Adhesive & Activator	Usage (lbs): <b>1,799.8</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>124.0</b>
		Density (lb/gal): <b>9.07</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.069	124.0

193.8 gal  
1,799.8 gal  
0  
1992.8

<b>LSPK-2221</b>	Usage (gal): <b>395.5</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>134.7</b>
Polyester Resin (LSPK-2221)	Usage (lbs): <b>3,500.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>134.8</b>
		Density (lb/gal): <b>8.85</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	34.83%	0.039	134.8

<b>MA300</b>	Usage (gal): <b>60.2</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>25.1</b>
ITW Plexus Adhesive (MA300)	Usage (lbs): <b>517.4</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>25.1</b>
		Density (lb/gal): <b>8.59</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.048	25.1

<b>MBA01</b>	Usage (gal): <b>242.9</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>161.8</b>
Westech HS-MAC18, HP-MAC18 & MPEA	Usage (lbs): <b>1,620.5</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **August 2008**

<b>MBG02</b> Armorco Moonbeam Gelcoat (991AK138)	Usage (gal): <b>19.2</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>33.1</b>	
	Usage (lbs): <b>204.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>33.1</b>	
		Density (lb/gal): <b>10.63</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.17%	0.053	10.7
100-42-5	Styrene	24.66%	0.110	22.4

<b>MBG02a</b> Armorco Marble Gelcoat (991AK139)	Usage (gal): <b>38.3</b>	VOC Content (wt%): <b>0.320</b>	VOCs (lbs): <b>66.8</b>	
	Usage (lbs): <b>400.0</b>	HAP Content (wt%): <b>0.320</b>	HAPs (lbs): <b>66.8</b>	
		Density (lb/gal): <b>10.44</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.28%	0.053	21.0
100-42-5	Styrene	25.73%	0.115	45.8

<b>MBG04</b> Armorco Vapor Blue Gelcoat (991LK123)	Usage (gal): <b>37.9</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>60.9</b>	
	Usage (lbs): <b>395.0</b>	HAP Content (wt%): <b>0.305</b>	HAPs (lbs): <b>60.9</b>	
		Density (lb/gal): <b>10.43</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.98%	0.045	17.8
100-42-5	Styrene	24.56%	0.109	43.2

0  
 395  
 0  
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 395

<b>MBG06</b> Armorco White Gelcoat (991WH423)	Usage (gal): <b>420.5</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>788.0</b>	
	Usage (lbs): <b>4,640.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>787.9</b>	
		Density (lb/gal): <b>11.03</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.50%	0.053	243.6
100-42-5	Styrene	26.36%	0.117	544.3

<b>MBG07a</b> Armorco Orange Gelcoat (991YK132)	Usage (gal): <b>28.5</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>46.1</b>	
	Usage (lbs): <b>295.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>46.1</b>	
		Density (lb/gal): <b>10.33</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.58%	0.045	13.3
100-42-5	Styrene	25.03%	0.111	32.9

0  
 295  
 0  
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 295

<b>MBG08b</b> Armorco Sangrial Gelcoat (991RK118)	Usage (gal): <b>14.5</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>23.9</b>	
	Usage (lbs): <b>152.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>23.9</b>	
		Density (lb/gal): <b>10.45</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.55%	0.045	6.8
100-42-5	Styrene	25.28%	0.113	17.1

0  
 152  
 0  
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 152



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **August 2008**

<b>MBG08c</b>	Usage (gal): <b>4.7</b>	VOC Content (wt%): <b>0.314</b>	VOCs (lbs): <b>8.2</b>
Armorcote Pink Gelcoat (991RK124)	Usage (lbs): <b>49.0</b>	HAP Content (wt%): <b>0.314</b>	HAPs (lbs): <b>8.2</b>
		Density (lb/gal): <b>10.52</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	7.12%	0.060
100-42-5	Styrene	24.29%	0.108
			HAP/TAP Lbs
			2.9
			5.3
<b>MBM01</b>	Usage (gal): <b>120.3</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>41.1</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>1,104.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>19.0</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
			HAP/TAP Lbs
			19.0
<b>MBP01</b>	Usage (gal): <b>46.1</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>13.2</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>350.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>13.2</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs
			13.2
<b>MBR02a</b>	Usage (gal): <b>4,484.3</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,456.2</b>
Resin (LHPC4121)	Usage (lbs): <b>41,700.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,409.5</b>
		Density (lb/gal): <b>9.30</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	31.62%	0.034
			HAP/TAP Lbs
			1,409.5

0  
49  
0  
49

2

	Month (lbs)	Month (tons)
VOCs:	5,401	2.70
HAPs:	4,870	2.44

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **August 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	19	0.01
80-62-6	Methyl Methacrylate	802	0.40
	No reportable HAPs	0	0.00
100-42-5	Styrene	4,049	2.02
	<b>Total</b>	<b>4,870</b>	<b>2.44</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	28,359	0	0	0.00
Total:		28,359		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	23,910	159	3,802	1.90
5788C90279	Patch Aid Reducer (5788C90279)	25	159	4	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	159	50	0.03
5799B90020	Aztec Black Gelcoat (5799B90020)	14,470	159	2,301	1.15
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	2,295	159	365	0.18
953LK160	Dark Blue Gelcoat (953LK160)	2,979	159	474	0.24
963LK160	Dark Blue Gelcoat (963LK160)	3,038	159	483	0.24
963LK188	Midnight Blue Gelcoat (963LK188)	3,012	159	479	0.24
963RK139	Rueben Gelcoat (963RK139)	2,329	159	370	0.19
963RK140	Regal Gelcoat (963RK140)	8,628	159	1,372	0.69
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,280	159	204	0.10
963XA221	Marine Clear Gelcoat (963XA221)	4,475	159	712	0.36
967BK150	Black Barrier Coat (967BK150)	58,465	159	9,296	4.65
991GH359	Polo Green Gelcoat (991GH359)	648	159	103	0.05
991GH369	Brite Green Gelcoat (991GH369)	2,150	159	342	0.17
991NH788	Brown Gelcoat (991NH788)	2,168	159	345	0.17
991PK105	Black Iris Gelcoat (991PK105)	916	159	146	0.07
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16

Malibu Boats Merced Plant: NESHP Equation 1 HAP Limit				12 Months Ending: August 2008		
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,221	159	512	0.26
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,026	159	163	0.08
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,538	159	245	0.12
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,608	159	256	0.13
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,659	159	423	0.21
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,046	159	166	0.08
MBG06	Armorcote White Gelcoat (991WH423)	68,997	159	10,971	5.49
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,718	159	432	0.22
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,501	159	239	0.12
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	693	159	110	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	159	80	0.04
Total:		233,648		37,150	18.58

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHP EF	intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	72,800	46	3,349	1.67
MBR02	Resin (LHPC3523)	278,120	46	12,794	6.40
MBR02a	Resin (LHPC4121)	556,260	46	25,588	12.79
VLER-4000	VE Resin (VLER-4000)	7,300	46	336	0.17
VSXH-2200	VE Resin (VSXH-2200)	12,000	46	552	0.28

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: August 2008</b>
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Total:	926,480	42,618	21.31
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,671	214	572	0.29
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		2,716		581	0.29

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	960	54	52	0.03
1055	Tooling Resin (1055)	26,000	54	1,404	0.70
Total:		26,960		1,456	0.73

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	81,805	40.90

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	28,359	0.000	0.0	0
Total:		28,359			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	23,910	0.300	132.6	3,170
5788C90279	Patch Aid Reducer (5788C90279)	25	0.558	375.4	9
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	0.317	145.2	46
5799B90020	Aztec Black Gelcoat (5799B90020)	14,470	0.316	144.4	2,089
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	2,295	0.319	147.1	338
953LK160	Dark Blue Gelcoat (953LK160)	2,979	0.362	181.8	542
963LK160	Dark Blue Gelcoat (963LK160)	3,038	0.286	122.1	371
963LK188	Midnight Blue Gelcoat (963LK188)	3,012	0.291	126.1	380
963RK139	Rueben Gelcoat (963RK139)	2,329	0.287	123.0	286
963RK140	Regal Gelcoat (963RK140)	8,628	0.288	123.7	1,067
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,280	0.449	260.3	333

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: August 2008**

963XA221	Marine Clear Gelcoat (963XA221)	4,475	0.447	258.9	1,158
967BK150	Black Barrier Coat (967BK150)	58,465	0.321	148.8	8,699
991GH359	Polo Green Gelcoat (991GH359)	648	0.328	153.6	100
991GH369	Brite Green Gelcoat (991GH369)	2,150	0.325	151.7	326
991NH788	Brown Gelcoat (991NH788)	2,168	0.318	146.4	317
991PK105	Black Iris Gelcoat (991PK105)	916	0.312	141.8	130
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,221	0.308	138.8	447
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,026	0.320	147.8	152
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,538	0.328	153.7	236
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,608	0.305	136.6	220
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,659	0.304	135.9	361
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,046	0.302	133.7	140
MBG06	Armorcote White Gelcoat (991WH423)	68,997	0.329	154.4	10,656
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,718	0.306	137.3	373
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,501	0.306	137.1	206
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>August 2008</b>
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MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	693	0.308	138.8	96
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	0.314	143.2	72
<b>Total:</b>		<b>233,648</b>			<b>34,658</b>
Weighted Average MACT Model Point Value:		148.3			
Intermediate MACT Model Point Value (lbs):		34,658			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	72,800	0.348	45.1	3,283
MBR02	Resin (LHPC3523)	278,120	0.316	36.2	10,064
MBR02a	Resin (LHPC4121)	556,260	0.316	36.2	20,129
VLER-4000	VE Resin (VLER-4000)	7,300	0.320	37.2	271
VSXH-2200	VE Resin (VSXH-2200)	12,000	0.349	45.3	543
<b>Total:</b>		<b>926,480</b>			<b>34,291</b>
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		34,291			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,671	0.358	178.7	477
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
<b>Total:</b>		<b>2,716</b>			<b>490</b>
Weighted Average MACT Model Point Value:		180.4			
Intermediate MACT Model Point Value (lbs):		490			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	960	0.382	55.7	53



<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>August 2008</b>
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1055	Tooling Resin (1055)	26,000	0.280	27.4	713
<b>Total:</b>		<b>26,960</b>			<b>767</b>
<b>Weighted Average MACT Model Point Value:</b>		<b>28.4</b>			
<b>Intermediate MACT Model Point Value (lbs):</b>		<b>767</b>			

		<b>Pounds</b>	<b>Tons</b>
<b>Final MACT Model Point Value:</b>		70,206	35.10

Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02
August 2008	2.70	40.08	2.44	36.09	2.02	31.55
September 2008	3.15	39.27	2.88	35.35	2.49	30.92

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: September 2008

<b>200LK202</b>	Usage (gal): <b>559.1</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>734.4</b>
Black Barrier Coat (200LK202)	Usage (lbs): <b>5,390.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>719.5</b>
		Density (lb/gal): <b>9.64</b>	

4,410  
0  
5,390  
9,800

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.133	719.5

<b>5788C90279</b>	Usage (gal): <b>1.0</b>	VOC Content (wt%): <b>0.560</b>	VOCs (lbs): <b>0.9</b>
Patch Aid Reducer (5788C90279)	Usage (lbs): <b>8.0</b>	HAP Content (wt%): <b>0.558</b>	HAPs (lbs): <b>0.9</b>
		Density (lb/gal): <b>8.33</b>	

17  
0  
8  
25

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	55.84%	0.107	0.9

<b>5799A90073</b>	Usage (gal): <b>43.2</b>	VOC Content (wt%): <b>0.327</b>	VOCs (lbs): <b>75.7</b>
Midnight Blue Gelcoat (5799A90073)	Usage (lbs): <b>450.0</b>	HAP Content (wt%): <b>0.317</b>	HAPs (lbs): <b>71.1</b>
		Density (lb/gal): <b>10.41</b>	

450

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.58%	0.038	16.9
100-42-5	Styrene	27.10%	0.121	54.3

<b>5799B90020</b>	Usage (gal): <b>534.0</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>878.3</b>
Aztec Black Gelcoat (5799B90020)	Usage (lbs): <b>5,500.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>824.4</b>
		Density (lb/gal): <b>10.30</b>	

0  
5000  
5900  
10,500

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.25%	0.015	82.5
100-42-5	Styrene	30.31%	0.135	741.9

<b>5799R90052</b>	Usage (gal): <b>78.2</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>136.7</b>
Regal Gelcoat (5799R90052)	Usage (lbs): <b>810.0</b>	HAP Content (wt%): <b>0.319</b>	HAPs (lbs): <b>129.3</b>
		Density (lb/gal): <b>10.36</b>	

180  
855  
810  
1,845

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.47%	0.038	30.4
100-42-5	Styrene	27.44%	0.122	98.9

<b>963LK160</b>	Usage (gal): <b>66.8</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>113.3</b>
Dark Blue Gelcoat (963LK160)	Usage (lbs): <b>708.0</b>	HAP Content (wt%): <b>0.286</b>	HAPs (lbs): <b>103.6</b>
		Density (lb/gal): <b>10.60</b>	

0  
199  
708  
907

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.77%	0.045	31.9
100-42-5	Styrene	22.78%	0.101	71.8

<b>963RK139</b>	Usage (gal): <b>4.9</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>7.8</b>
Rueben Gelcoat (963RK139)	Usage (lbs): <b>52.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>7.7</b>
		Density (lb/gal): <b>10.57</b>	

0  
91  
52  
143

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.57%	0.045	2.3
100-42-5	Styrene	23.11%	0.103	5.3

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: September 2008

965BK183	Usage (gal): 42.6	VOC Content (wt%): 0.409	VOCs (lbs): 86.7
Black VE Tooling (965BK183)	Usage (lbs): 393.0	HAP Content (wt%): 0.358	HAPs (lbs): 70.0
		Density (lb/gal): 9.23	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	35.84%	0.178
			HAP/TAP Lbs
			70.0
967BK150	Usage (gal): 260.1	VOC Content (wt%): 0.364	VOCs (lbs): 451.5
Black Barrier Coat (967BK150)	Usage (lbs): 2,525.0	HAP Content (wt%): 0.321	HAPs (lbs): 361.1
		Density (lb/gal): 9.71	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	32.14%	0.143
			HAP/TAP Lbs
			361.1
970XJ037	Usage (gal): 0.9	VOC Content (wt%): 0.583	VOCs (lbs): 1.0
Patchaid (970XJ037)	Usage (lbs): 8.0	HAP Content (wt%): 0.574	HAPs (lbs): 0.9
		Density (lb/gal): 8.56	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	57.40%	0.111
			HAP/TAP Lbs
			0.9
991GH359	Usage (gal): 4.9	VOC Content (wt%): 0.328	VOCs (lbs): 8.3
Polo Green Gelcoat (991GH359)	Usage (lbs): 50.0	HAP Content (wt%): 0.328	HAPs (lbs): 8.3
		Density (lb/gal): 10.24	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.54%	0.045
100-42-5	Styrene	27.21%	0.121
			HAP/TAP Lbs
			2.2
			6.1
991GH369	Usage (gal): 34.8	VOC Content (wt%): 0.325	VOCs (lbs): 58.6
Brite Green Gelcoat (991GH369)	Usage (lbs): 356.0	HAP Content (wt%): 0.325	HAPs (lbs): 58.6
		Density (lb/gal): 10.22	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.62%	0.045
100-42-5	Styrene	26.89%	0.120
			HAP/TAP Lbs
			16.0
			42.6
991NH788	Usage (gal): 19.5	VOC Content (wt%): 0.318	VOCs (lbs): 33.9
Brown Gelcoat (991NH788)	Usage (lbs): 204.0	HAP Content (wt%): 0.318	HAPs (lbs): 33.9
		Density (lb/gal): 10.45	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.23%	0.053
100-42-5	Styrene	25.60%	0.114
			HAP/TAP Lbs
			10.7
			23.2
ADH4011	Usage (gal): 6.3	VOC Content (wt%): 0.549	VOCs (lbs): 24.4
Conbond (ADH4011)	Usage (lbs): 44.5	HAP Content (wt%): 0.000	HAPs (lbs): 0.0
		Density (lb/gal): 7.11	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0

450  
448  
393  

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1291

0  
2020  
2525  

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4,545

32  
32  
8  

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72 + 120

0  
241  
50  

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291

0  
350  
356  

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706

0  
504  
204  

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708

6,340

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: September 2008

Product Name	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)
<b>LSPK-2221</b> Polyester Resin (LSPK-2221)	452.0	4,000.0	0.348	0.348	8.85	154.0	154.0
CAS No: 100-42-5	Chemical: Styrene	Weight %: 34.83%	E-Factor: 0.039	HAP/TAP Lbs: 154.0			
<b>MA300</b> ITW Plexus Adhesive (MA300)	0.1	0.8	0.600	0.600	8.59	0.0	0.0
CAS No: 80-62-6	Chemical: Methyl Methacrylate	Weight %: 60.00%	E-Factor: 0.048	HAP/TAP Lbs: 0.0			
<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	364.3	2,430.7	0.100	0.000	6.67	242.7	0.0
CAS No	Chemical: No reportable HAPs	Weight %: 0.00%	E-Factor: 0.000	HAP/TAP Lbs: 0.0			
<b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	18.1	192.0	0.308	0.308	10.63	31.1	31.1
CAS No: 80-62-6, 100-42-5	Chemical: Methyl Methacrylate, Styrene	Weight %: 6.17%, 24.66%	E-Factor: 0.053, 0.110	HAP/TAP Lbs: 10.1, 21.1			
<b>MBG02a</b> Armorcote Marble Gelcoat (991AK139)	9.7	101.0	0.320	0.320	10.44	16.9	16.9
CAS No: 80-62-6, 100-42-5	Chemical: Methyl Methacrylate, Styrene	Weight %: 6.28%, 25.73%	E-Factor: 0.053, 0.115	HAP/TAP Lbs: 5.3, 11.6			
<b>MBG05</b> Armorcote Light Graphite Gelcoat (991NK123)	27.0	287.0	0.304	0.304	10.63	46.2	46.2
CAS No: 80-62-6, 100-42-5	Chemical: Methyl Methacrylate, Styrene	Weight %: 6.07%, 24.37%	E-Factor: 0.053, 0.109	HAP/TAP Lbs: 15.1, 31.1			
<b>MBG05a</b> Armorcote Platinum Gelcoat (991NK124)	25.7	276.0	0.301	0.302	10.73	44.0	44.0
CAS No: 80-62-6, 100-42-5	Chemical: Methyl Methacrylate, Styrene	Weight %: 6.10%, 24.05%	E-Factor: 0.053, 0.107	HAP/TAP Lbs: 14.5, 29.5			

0  
3500  
4,000  
7,500

12,092  
60,292  
0.192  
72.3

gal lb  
121.4 810.2  
242.9 1620.5  
364.3 2430.7  
728.6 4861.4

0  
204  
192  
396

0  
400  
101  
501

208  
0  
287  
495

0  
0  
276  
276

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: September 2008

Product Code	Product Name	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)	HAP/TAP Lbs
✓ MBG06	Armorcote White Gelcoat (991WH423)	839.1	9,258.0	0.329	0.329	11.03	1,572.3	1,572.0	486.0
		9258.0		0.329			1,572.0		
		11.03		1,086.0					
CAS No	Chemical	Weight %	E-Factor						
80-62-6	Methyl Methacrylate	6.50%	0.053						
100-42-5	Styrene	26.36%	0.117						
2320	4640	9258	16218						
✓ MBG07	Armorcote CA Yellow Gelcoat (991YK125)	24.6	255.0	0.306	0.306	10.35	41.1	41.1	13.4
CAS No	Chemical	Weight %	E-Factor						
80-62-6	Methyl Methacrylate	6.17%	0.053						
100-42-5	Styrene	24.46%	0.109						
0	0	255	255						
✓ MBM01	MEKP9 (Clear & Red)	193.6	1,776.0	0.450	0.430	9.17	66.1	30.5	30.5
CAS No	Chemical	Weight %	E-Factor						
131-11-3	Dimethyl Phthalate	43.00%	0.017						
1024	1104	1776	3,904						
✓ MBP01	EZ Bond Adhesive (5787W00077)	92.2	700.0	0.300	0.300	7.59	26.5	26.5	26.5
CAS No	Chemical	Weight %	E-Factor						
100-42-5	Styrene	30.00%	0.038						
138.4 gal	46.1 gal	92.2 gal	276.7 gal						
✓ MBR02a	Resin (LHPC4121)	4,467.1	41,540.0	0.326	0.316	9.30	1,450.6	1,404.1	1,404.1
CAS No	Chemical	Weight %	E-Factor						
100-42-5	Styrene	31.62%	0.034						
40,320	41,700	41,540	123,560						

	Month (lbs)	Month (tons)
VOCs:	6,303	3.15
HAPs:	5,756	2.88

**Mailbu Boats Merced Plant: Usage & Emissions****Month of: September 2008**

<b>CAS No</b>	<b>Chemical</b>	<b>Emissions (lbs)</b>	<b>Emissions (tons)</b>
131-11-3	Dimethyl Phthalate	31	0.02
80-62-6	Methyl Methacrylate	737	0.37
	No reportable HAPs	0	0.00
100-42-5	Styrene	4,988	2.49
	<b>Total</b>	<b>5,756</b>	<b>2.88</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	29,169	0	0	0.00
Total:		29,169		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	29,300	159	4,659	2.33
5788C90279	Patch Aid Reducer (5788C90279)	33	159	5	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	765	159	122	0.06
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	159	3,175	1.59
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	3,105	159	494	0.25
953LK160	Dark Blue Gelcoat (953LK160)	1,890	159	301	0.15
963LK160	Dark Blue Gelcoat (963LK160)	3,746	159	596	0.30
963LK188	Midnight Blue Gelcoat (963LK188)	2,493	159	396	0.20
963RK139	Rueben Gelcoat (963RK139)	2,281	159	363	0.18
963RK140	Regal Gelcoat (963RK140)	7,738	159	1,230	0.62
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,080	159	172	0.09
963XA221	Marine Clear Gelcoat (963XA221)	4,475	159	712	0.36
967BK150	Black Barrier Coat (967BK150)	52,910	159	8,413	4.21
991GH359	Polo Green Gelcoat (991GH359)	698	159	111	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,692	159	269	0.13
991NH788	Brown Gelcoat (991NH788)	1,871	159	297	0.15
991PK105	Black Iris Gelcoat (991PK105)	869	159	138	0.07
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16



<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending September 2008</b>
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,153	159	501	0.25
MBG02a	Armorcote Marble Gelcoat (991AK139)	501	159	80	0.04
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,244	159	198	0.10
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,351	159	215	0.11
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,629	159	418	0.21
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,220	159	194	0.10
MBG06	Armorcote White Gelcoat (991WH423)	68,975	159	10,967	5.48
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,775	159	441	0.22
MBG07a	Armorcote Orange Gelcoat (991YK132)	892	159	142	0.07
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	693	159	110	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	159	80	0.04
<b>Total:</b>		<b>235,887</b>		<b>37,506</b>	<b>18.75</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	68,640	46	3,157	1.58
MBR02	Resin (LHPC3523)	237,860	46	10,942	5.47
MBR02a	Resin (LHPC4121)	558,400	46	25,686	12.84
VLER-4000	VE Resin (VLER-4000)	5,950	46	274	0.14
VSXH-2200	VE Resin (VSXH-2200)	12,000	46	552	0.28

Total:	882,850	40,611	20.31
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,595	214	555	0.28
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		2,640		565	0.28

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	960	54	52	0.03
1055	Tooling Resin (1055)	24,500	54	1,323	0.66
Total:		25,460		1,375	0.69

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	80,057	40.03

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	29,169	0.000	0.0	0
Total:		29,169			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	29,300	0.300	132.6	3,884
5788C90279	Patch Aid Reducer (5788C90279)	33	0.558	375.4	12
5799A90073	Midnight Blue Gelcoat (5799A90073)	765	0.317	145.2	111
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	0.316	144.4	2,883
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	3,105	0.319	147.1	457
953LK160	Dark Blue Gelcoat (953LK160)	1,890	0.362	181.8	344
963LK160	Dark Blue Gelcoat (963LK160)	3,746	0.286	122.1	457
963LK188	Midnight Blue Gelcoat (963LK188)	2,493	0.291	126.1	314
963RK139	Rueben Gelcoat (963RK139)	2,281	0.287	123.0	281
963RK140	Regal Gelcoat (963RK140)	7,738	0.288	123.7	957
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,080	0.449	260.3	281

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: September 2008</b>	
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963XA221	Marine Clear Gelcoat (963XA221)	4,475	0.447	258.9	1,158
967BK150	Black Barrier Coat (967BK150)	52,910	0.321	148.8	7,872
991GH359	Polo Green Gelcoat (991GH359)	698	0.328	153.6	107
991GH369	Brite Green Gelcoat (991GH369)	1,692	0.325	151.7	257
991NH788	Brown Gelcoat (991NH788)	1,871	0.318	146.4	274
991PK105	Black Iris Gelcoat (991PK105)	869	0.312	141.8	123
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,153	0.308	138.8	438
MBG02a	Armorcote Marble Gelcoat (991AK139)	501	0.320	147.8	74
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,244	0.328	153.7	191
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,351	0.305	136.6	185
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,629	0.304	135.9	357
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,220	0.302	133.7	163
MBG06	Armorcote White Gelcoat (991WH423)	68,975	0.329	154.4	10,653
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,775	0.306	137.3	381
MBG07a	Armorcote Orange Gelcoat (991YK132)	892	0.306	137.1	122
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: September 2008</b>
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MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Aarmorcote Sangrial Gelcoat (991RK118)	693	0.308	138.8	96
MBG08c	Aarmorcote Pink Gelcoat (991RK124)	506	0.314	143.2	72
<hr/>					
Total:		235,887			34,844
Weighted Average MACT Model Point Value:		147.7			
Intermediate MACT Model Point Value (lbs):		34,844			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	68,640	0.348	45.1	3,096
MBR02	Resin (LHPC3523)	237,860	0.316	36.2	8,607
MBR02a	Resin (LHPC4121)	558,400	0.316	36.2	20,206
VLER-4000	VE Resin (VLER-4000)	5,950	0.320	37.2	221
VSXH-2200	VE Resin (VSXH-2200)	12,000	0.349	45.3	543
<hr/>					
Total:		882,850			32,673
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		32,673			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,595	0.358	178.7	464
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
<hr/>					
Total:		2,640			476
Weighted Average MACT Model Point Value:		180.4			
Intermediate MACT Model Point Value (lbs):		476			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	960	0.382	55.7	53

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: September 2008</b>
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1055	Tooling Resin (1055)	24,500	0.280	27.4	672
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Total:	25,460			726
Weighted Average MACT Model Point Value:	28.5			
Intermediate MACT Model Point Value (lbs):	726			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	68,719	34.36

Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02
August 2008	2.70	40.08	2.44	36.09	2.02	31.55
September 2008	3.15	39.27	2.88	35.35	2.49	30.92
October 2008	3.06	38.28	2.66	34.40	2.42	30.24

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **October 2008**

<b>040-8094</b> CCP Optiplus Resin (040-8094)	Usage (gal): <b>109.3</b>	VOC Content (wt%): <b>0.470</b>	VOCs (lbs): <b>125.4</b>
	Usage (lbs): <b>960.0</b>	HAP Content (wt%): <b>0.382</b>	HAPs (lbs): <b>41.4</b>
		Density (lb/gal): <b>8.78</b>	

960

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.54%	0.002	1.6
100-42-5	Styrene	36.67%	0.042	39.8

<b>100BK201</b> Jet Black Gelcoat (100BK201)	Usage (gal): <b>656.4</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>866.5</b>
	Usage (lbs): <b>5,977.0</b>	HAP Content (wt%): <b>0.298</b>	HAPs (lbs): <b>834.6</b>
		Density (lb/gal): <b>9.11</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.80%	0.015	89.7
100-42-5	Styrene	28.01%	0.125	744.9

<b>963RK139</b> Rueben Gelcoat (963RK139)	Usage (gal): <b>6.5</b>	VOC Content (wt%): <b>0.290</b>	VOCs (lbs): <b>10.4</b>
	Usage (lbs): <b>69.0</b>	HAP Content (wt%): <b>0.287</b>	HAPs (lbs): <b>10.2</b>
		Density (lb/gal): <b>10.57</b>	

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69

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.57%	0.045	3.1
100-42-5	Styrene	23.11%	0.103	7.1

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>74.8</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>117.4</b>
	Usage (lbs): <b>793.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>117.4</b>
		Density (lb/gal): <b>10.61</b>	

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CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	35.7
100-42-5	Styrene	23.16%	0.103	81.7

<b>967BK150</b> Black Barrier Coat (967BK150)	Usage (gal): <b>990.3</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>1,719.1</b>
	Usage (lbs): <b>9,613.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>1,374.7</b>
		Density (lb/gal): <b>9.71</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.14%	0.143	1,374.7

<b>970XJ037</b> Patchaid (970XJ037)	Usage (gal): <b>1.9</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>1.9</b>
	Usage (lbs): <b>16.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>1.8</b>
		Density (lb/gal): <b>8.56</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	57.40%	0.111	1.8

<b>991GH369</b> Brite Green Gelcoat (991GH369)	Usage (gal): <b>16.3</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>27.5</b>
	Usage (lbs): <b>167.0</b>	HAP Content (wt%): <b>0.325</b>	HAPs (lbs): <b>27.5</b>
		Density (lb/gal): <b>10.22</b>	

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CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	7.5
100-42-5	Styrene	26.89%	0.120	20.0



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **October 2008**

<b>991NH788</b> Brown Gelcoat (991NH788)	Usage (gal): <b>7.5</b>	VOC Content (wt%): <b>0.318</b>	VOCs (lbs): <b>13.0</b>	7-
	Usage (lbs): <b>78.0</b>	HAP Content (wt%): <b>0.318</b>	HAPs (lbs): <b>13.0</b>	
		Density (lb/gal): <b>10.45</b>		
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.23%	0.053	4.1
100-42-5	Styrene	25.60%	0.114	8.9
<b>9EXFB379</b> Dark Blue Gelcoat (9EXFB379)	Usage (gal): <b>65.2</b>	VOC Content (wt%): <b>0.315</b>	VOCs (lbs): <b>95.0</b>	616
	Usage (lbs): <b>616.0</b>	HAP Content (wt%): <b>0.302</b>	HAPs (lbs): <b>87.2</b>	
		Density (lb/gal): <b>9.45</b>		
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.71%	0.015	9.2
100-42-5	Styrene	28.44%	0.127	78.0
<b>9EXFB385</b> Midnight Blue Gelcoat (9EXFB385)	Usage (gal): <b>30.1</b>	VOC Content (wt%): <b>0.321</b>	VOCs (lbs): <b>43.2</b>	276
	Usage (lbs): <b>276.0</b>	HAP Content (wt%): <b>0.307</b>	HAPs (lbs): <b>39.7</b>	
		Density (lb/gal): <b>9.18</b>		
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.80%	0.015	4.1
100-42-5	Styrene	28.93%	0.129	35.5
<b>9EXFB389</b> CA Yellow Gelcoat (9EXFB389)	Usage (gal): <b>21.6</b>	VOC Content (wt%): <b>0.319</b>	VOCs (lbs): <b>31.1</b>	200
	Usage (lbs): <b>200.0</b>	HAP Content (wt%): <b>0.305</b>	HAPs (lbs): <b>28.5</b>	
		Density (lb/gal): <b>9.25</b>		
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.78%	0.015	3.0
100-42-5	Styrene	28.71%	0.128	25.5
<b>9EXFB395</b> Charcoal Gelcoat (9EXFB395)	Usage (gal): <b>12.0</b>	VOC Content (wt%): <b>0.322</b>	VOCs (lbs): <b>17.1</b>	111.0
	Usage (lbs): <b>111.0</b>	HAP Content (wt%): <b>0.311</b>	HAPs (lbs): <b>16.0</b>	
		Density (lb/gal): <b>9.24</b>		
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.98%	0.015	1.7
100-42-5	Styrene	29.12%	0.130	14.4
<b>ADH4011</b> Conbond (ADH4011)	Usage (gal): <b>6.3</b>	VOC Content (wt%): <b>0.549</b>	VOCs (lbs): <b>24.4</b>	
	Usage (lbs): <b>44.5</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>	
		Density (lb/gal): <b>7.11</b>		
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0
<b>LSPK-2221</b> Polyester Resin (LSPK-2221)	Usage (gal): <b>734.6</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>250.2</b>	
	Usage (lbs): <b>6,500.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>250.3</b>	
		Density (lb/gal): <b>8.85</b>		
✓ CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	34.83%	0.039	250.3

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **October 2008**

START

Product Code	Usage (gal)	Usage (lbs)	VOC Content (wt%)	HAP Content (wt%)	Density (lb/gal)	VOCs (lbs)	HAPs (lbs)
<b>MA300</b>	0.1	0.8	0.600	0.600	8.59	0.0	0.0
ITW Plexus Adhesive (MA300)							
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		60.00%	0.048	0.0		
<b>MBA01</b>	242.9	1,620.5	0.100	0.000	6.67	161.8	0.0
Westech HS-MAC18, HP-MAC18 & MPEA							
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs		0.00%	0.000	0.0		
<b>MBG02</b>	15.9	169.0	0.308	0.308	10.63	27.4	27.4
Armorcote Moonbeam Gelcoat (991AK138)							
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		6.17%	0.053	8.9		
100-42-5	Styrene		24.66%	0.110	18.5		
<b>MBG02a</b>	4.0	42.0	0.320	0.320	10.44	7.0	7.0
Armorcote Marble Gelcoat (991AK139)							
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		6.28%	0.053	2.2		
100-42-5	Styrene		25.73%	0.115	4.8		
<b>MBG04</b>	1.7	18.0	0.305	0.305	10.43	2.8	2.8
Armorcote Vapor Blue Gelcoat (991LK123)							
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		5.98%	0.045	0.8		
100-42-5	Styrene		24.56%	0.109	2.0		
<b>MBG05</b>	13.7	146.0	0.304	0.304	10.63	23.5	23.5
Armorcote Light Graphite Gelcoat (991NK123)							
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		6.07%	0.053	7.7		
100-42-5	Styrene		24.37%	0.109	15.8		
<b>MBG05a</b>	7.0	75.0	0.301	0.302	10.73	12.0	12.0
Armorcote Platinum Gelcoat (991NK124)							
CAS No	Chemical		Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate		6.10%	0.053	3.9		
100-42-5	Styrene		24.05%	0.107	8.0		

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**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **October 2008**

<b>MBG06</b>	Usage (gal): <b>482.3</b>	VOC Content (wt%): <b>0.329</b>	VOCs (lbs): <b>903.8</b>
Armorcote White Gelcoat (991WH423)	Usage (lbs): <b>5,322.0</b>	HAP Content (wt%): <b>0.329</b>	HAPs (lbs): <b>903.7</b>
		Density (lb/gal): <b>11.03</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.50%	0.053
100-42-5	Styrene	26.36%	0.117
			HAP/TAP Lbs
			279.4
			624.3

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5322

<b>MBG07a</b>	Usage (gal): <b>13.5</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>21.9</b>
Armorcote Orange Gelcoat (991YK132)	Usage (lbs): <b>140.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>21.9</b>
		Density (lb/gal): <b>10.33</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.58%	0.045
100-42-5	Styrene	25.03%	0.111
			HAP/TAP Lbs
			6.3
			15.6

<b>MBM01</b>	Usage (gal): <b>143.0</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>48.8</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>1,312.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>22.6</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
			HAP/TAP Lbs
			22.6

<b>MBP01</b>	Usage (gal): <b>46.1</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>13.2</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>350.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>13.2</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs
			13.2

<b>MBR02a</b>	Usage (gal): <b>4,484.3</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,456.2</b>
Resin (LHPC4121)	Usage (lbs): <b>41,700.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,409.5</b>
		Density (lb/gal): <b>9.30</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	31.62%	0.034
			HAP/TAP Lbs
			1,409.5

41,700  
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41,700

<b>VSXH-2200</b>	Usage (gal): <b>109.4</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>54.0</b>
VE Resin (VSXH-2200)	Usage (lbs): <b>1,000.0</b>	HAP Content (wt%): <b>0.349</b>	HAPs (lbs): <b>38.5</b>
		Density (lb/gal): <b>9.14</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	34.89%	0.039
			HAP/TAP Lbs
			38.5

<b>Zyv GP</b>	Usage (gal): <b>8.0</b>	VOC Content (wt%): <b>0.900</b>	VOCs (lbs): <b>52.6</b>
Zyvax Sealer GP	Usage (lbs): <b>58.4</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>7.31</b>	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0

58.4  
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58.4

<b>Malibu Boats Merced Plant: Usage and VOC &amp; HAP Emissions</b>	<b>Month of:</b>	<b>October 2008</b>
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	<b>Month (lbs)</b>	<b>Month (tons)</b>
<b>VOCs:</b>	6,127	3.06
<b>HAPs:</b>	5,324	2.66

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **October 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	23	0.01
80-62-6	Methyl Methacrylate	469	0.23
	No reportable HAPs	0	0.00
100-42-5	Styrene	4,833	2.42
	<b>Total</b>	<b>5,324</b>	<b>2.66</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	27,548	0	0	0.00
Total:		27,548		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	13,407	159	2,132	1.07
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	29,300	159	4,659	2.33
5788C90279	Patch Aid Reducer (5788C90279)	33	159	5	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	765	159	122	0.06
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	159	3,175	1.59
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	3,105	159	494	0.25
953LK160	Dark Blue Gelcoat (953LK160)	470	159	75	0.04
963LK160	Dark Blue Gelcoat (963LK160)	3,746	159	596	0.30
963LK188	Midnight Blue Gelcoat (963LK188)	1,857	159	295	0.15
963RK139	Rueben Gelcoat (963RK139)	1,950	159	310	0.16
963RK140	Regal Gelcoat (963RK140)	6,957	159	1,106	0.55
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,080	159	172	0.09
963XA221	Marine Clear Gelcoat (963XA221)	4,475	159	712	0.36
967BK150	Black Barrier Coat (967BK150)	54,443	159	8,656	4.33
991GH359	Polo Green Gelcoat (991GH359)	698	159	111	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,364	159	217	0.11
991NH788	Brown Gelcoat (991NH788)	1,949	159	310	0.15
991PK105	Black Iris Gelcoat (991PK105)	676	159	107	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	159	412	0.21 <sup>2</sup>

**Mallbu Boats Merced Plant: NESHAP Equation 1 HAP Limit** **12 Months Ending: October 2008**

9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	159	216	0.11
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	159	168	0.08
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	159	89	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,222	159	512	0.26
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	159	119	0.06
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,267	159	201	0.10
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,351	159	374	0.19
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991WH423)	65,017	159	10,338	5.17
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,219	159	353	0.18
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,032	159	164	0.08
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	596	159	95	0.05
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	159	80	0.04
<b>Total:</b>		<b>235,844</b>		<b>37,499</b>	<b>18.75</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	65,540	46	3,015	1.51
MBR02	Resin (LHPC3523)	237,860	46	10,942	5.47
MBR02a	Resin (LHPC4121)	520,920	46	23,962	11.98
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11
VSXH-2200	VE Resin (VSXH-2200)	12,000	46	552	0.28

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: October 2008</b>
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Total:	840,920	38,682	19.34
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*Tooling Gelcoat, Atomized*

				Intermediate HAP Limit	
Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,595	214	555	0.28
Total:		2,595		555	0.28

*Tooling Resin, Non-Atomized*

				Intermediate HAP Limit	
Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	23,000	54	1,242	0.62
Total:		24,920		1,346	0.67

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	78,083	39.04



*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	27,548	0.000	0.0	0
Total:		27,548			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	13,407	0.298	131.2	1,759
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	29,300	0.300	132.6	3,884
5788C90279	Patch Aid Reducer (5788C90279)	33	0.558	375.4	12
5799A90073	Midnight Blue Gelcoat (5799A90073)	765	0.317	145.2	111
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	0.316	144.4	2,883
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	3,105	0.319	147.1	457
953LK160	Dark Blue Gelcoat (953LK160)	470	0.362	181.8	85
963LK160	Dark Blue Gelcoat (963LK160)	3,746	0.286	122.1	457
963LK188	Midnight Blue Gelcoat (963LK188)	1,857	0.291	126.1	234
963RK139	Rueben Gelcoat (963RK139)	1,950	0.287	123.0	240
963RK140	Regal Gelcoat (963RK140)	6,957	0.288	123.7	861
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,080	0.449	260.3	281

Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report				12 Months Ending:	October 2008
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963XA221	Marine Clear Gelcoat (963XA221)	4,475	0.447	258.9	1,158
967BK150	Black Barrier Coat (967BK150)	54,443	0.321	148.8	8,101
991GH359	Polo Green Gelcoat (991GH359)	698	0.328	153.6	107
991GH369	Brite Green Gelcoat (991GH369)	1,364	0.325	151.7	207
991NH788	Brown Gelcoat (991NH788)	1,949	0.318	146.4	285
991PK105	Black Iris Gelcoat (991PK105)	676	0.312	141.8	96
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	0.302	133.7	347
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	0.307	138.0	187
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	0.305	136.2	144
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	0.311	140.8	79
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,222	0.308	138.8	447
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	0.328	153.7	115
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,267	0.305	136.6	173
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,351	0.304	135.9	319
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991WH423)	65,017	0.329	154.4	10,042
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,219	0.306	137.3	305
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,032	0.306	137.1	141
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending:</b>	<b>October 2008</b>
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MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	596	0.308	138.8	83
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	0.314	143.2	72
<b>Total:</b>		<b>235,844</b>			<b>34,696</b>
Weighted Average MACT Model Point Value:		147.1			
Intermediate MACT Model Point Value (lbs):		34,696			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	65,540	0.348	45.1	2,956
MBR02	Resin (LHPC3523)	237,860	0.316	36.2	8,607
MBR02a	Resin (LHPC4121)	520,920	0.316	36.2	18,850
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	12,000	0.349	45.3	543
<b>Total:</b>		<b>840,920</b>			<b>31,127</b>
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		31,127			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,595	0.358	178.7	464
<b>Total:</b>		<b>2,595</b>			<b>464</b>
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		464			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	23,000	0.280	27.4	631

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**

**12 Months Ending: October 2008**

Total:	24,920	738
Weighted Average MACT Model Point Value:	29.6	
Intermediate MACT Model Point Value (lbs):	738	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	67,024	33.51

**Malibu Boats Merced Plant: Monthly & 12 Month Rolling Emissions Summary****Year Ending: November 2008**

<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02
August 2008	2.70	40.08	2.44	36.09	2.02	31.55
September 2008	3.15	39.27	2.88	35.35	2.49	30.92
October 2008	3.06	38.28	2.66	34.40	2.42	30.24
November 2008	1.46	35.96	1.26	32.37	1.01	28.34

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** **Month of: November 2008**

<b>100BK201</b> Jet Black Gelcoat (100BK201)	Usage (gal): <b>109.8</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>145.0</b>
	Usage (lbs): <b>1,000.0</b>	HAP Content (wt%): <b>0.298</b>	HAPs (lbs): <b>139.6</b>
		Density (lb/gal): <b>9.11</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.80%	0.015	15.0
100-42-5	Styrene	28.01%	0.125	124.6

<b>1055</b> Tooling Resin (1055)	Usage (gal): <b>239.8</b>	VOC Content (wt%): <b>0.280</b>	VOCs (lbs): <b>74.9</b>
	Usage (lbs): <b>2,500.0</b>	HAP Content (wt%): <b>0.280</b>	HAPs (lbs): <b>74.9</b>
		Density (lb/gal): <b>10.43</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.00%	0.001	2.7
100-42-5	Styrene	27.00%	0.029	72.2

0  
2,500  
0  
-----  
2500

<b>200LK202</b> Black Barrier Coat (200LK202)	Usage (gal): <b>406.6</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>534.1</b>
	Usage (lbs): <b>3,920.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>523.3</b>
		Density (lb/gal): <b>9.64</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.133	523.3

<b>5799A90073</b> Midnight Blue Gelcoat (5799A90073)	Usage (gal): <b>15.9</b>	VOC Content (wt%): <b>0.327</b>	VOCs (lbs): <b>27.7</b>
	Usage (lbs): <b>165.0</b>	HAP Content (wt%): <b>0.317</b>	HAPs (lbs): <b>26.1</b>
		Density (lb/gal): <b>10.41</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.58%	0.038	6.2
100-42-5	Styrene	27.10%	0.121	19.9

<b>5799R90052</b> Regal Gelcoat (5799R90052)	Usage (gal): <b>30.4</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>53.2</b>
	Usage (lbs): <b>315.0</b>	HAP Content (wt%): <b>0.319</b>	HAPs (lbs): <b>50.3</b>
		Density (lb/gal): <b>10.36</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.47%	0.038	11.8
100-42-5	Styrene	27.44%	0.122	38.5

<b>963LK160</b> Dark Blue Gelcoat (963LK160)	Usage (gal): <b>77.8</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>131.8</b>
	Usage (lbs): <b>824.0</b>	HAP Content (wt%): <b>0.286</b>	HAPs (lbs): <b>120.6</b>
		Density (lb/gal): <b>10.60</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.77%	0.045	37.1
100-42-5	Styrene	22.78%	0.101	83.5

0  
824  
0  
-----  
824

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **November 2008**

<b>963WH671</b>	Usage (gal): <b>393.6</b>	VOC Content (wt%): <b>0.310</b>	VOCs (lbs): <b>735.0</b>
White Gelcoat (963WH671)	Usage (lbs): <b>4,434.0</b>	HAP Content (wt%): <b>0.302</b>	HAPs (lbs): <b>700.5</b>
		Density (lb/gal): <b>11.27</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.49%	0.053
100-42-5	Styrene	23.71%	0.105
			HAP/TAP Lbs
			232.8
			467.7
4,434 0 0 <hr/> 4,434			
<b>963XA221</b>	Usage (gal): <b>22.8</b>	VOC Content (wt%): <b>0.453</b>	VOCs (lbs): <b>49.6</b>
Marine Clear Gelcoat (963XA221)	Usage (lbs): <b>200.0</b>	HAP Content (wt%): <b>0.447</b>	HAPs (lbs): <b>48.6</b>
		Density (lb/gal): <b>8.78</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	10.00%	0.075
100-42-5	Styrene	34.73%	0.168
			HAP/TAP Lbs
			15.0
			33.6
200 0 0 <hr/> 200			
<b>965BK183</b>	Usage (gal): <b>49.6</b>	VOC Content (wt%): <b>0.409</b>	VOCs (lbs): <b>101.0</b>
Black VE Tooling (965BK183)	Usage (lbs): <b>458.0</b>	HAP Content (wt%): <b>0.358</b>	HAPs (lbs): <b>81.5</b>
		Density (lb/gal): <b>9.23</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	35.84%	0.178
			HAP/TAP Lbs
			81.5
458 0 0 <hr/> 458			
<b>967BK150</b>	Usage (gal): <b>152.5</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>264.7</b>
Black Barrier Coat (967BK150)	Usage (lbs): <b>1,480.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>211.6</b>
		Density (lb/gal): <b>9.71</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	32.14%	0.143
			HAP/TAP Lbs
			211.6
9613 1480 0 <hr/> 11,093			
<b>970XJ037</b>	Usage (gal): <b>0.9</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>1.0</b>
Patchaid (970XJ037)	Usage (lbs): <b>8.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>0.9</b>
		Density (lb/gal): <b>8.56</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	57.40%	0.111
			HAP/TAP Lbs
			0.9
250 0 0 <hr/> 250			
<b>991GH359</b>	Usage (gal): <b>24.4</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>41.5</b>
Polo Green Gelcoat (991GH359)	Usage (lbs): <b>250.0</b>	HAP Content (wt%): <b>0.328</b>	HAPs (lbs): <b>41.5</b>
		Density (lb/gal): <b>10.24</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.54%	0.045
100-42-5	Styrene	27.21%	0.121
			HAP/TAP Lbs
			11.3
			30.3
78 203 0 <hr/> 281			
<b>991NH788</b>	Usage (gal): <b>19.4</b>	VOC Content (wt%): <b>0.318</b>	VOCs (lbs): <b>33.8</b>
Brown Gelcoat (991NH788)	Usage (lbs): <b>203.0</b>	HAP Content (wt%): <b>0.318</b>	HAPs (lbs): <b>33.8</b>
		Density (lb/gal): <b>10.45</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.23%	0.053
100-42-5	Styrene	25.60%	0.114
			HAP/TAP Lbs
			10.7
			23.1

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **November 2008**

<b>ADH4011</b> Conbond (ADH4011)	Usage (gal):	1.9	VOC Content (wt%):	0.549	VOCs (lbs):	7.3
	Usage (lbs):	13.3	HAP Content (wt%):	0.000	HAPs (lbs):	0.0
			Density (lb/gal):	7.11		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		

6.3  
13.3  
0

<b>Flex-Z</b> Flex-Z 1, 2, 3, 4, 5 & 6	Usage (gal):	8.0	VOC Content (wt%):	0.900	VOCs (lbs):	42.0
	Usage (lbs):	46.7	HAP Content (wt%):	0.000	HAPs (lbs):	0.0
			Density (lb/gal):	5.84		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		

<b>IPSAth</b> IPS Adhesive & Activator	Usage (gal):	203.3	VOC Content (wt%):	0.600	VOCs (lbs):	127.1
	Usage (lbs):	1,843.1	HAP Content (wt%):	0.600	HAPs (lbs):	127.0
			Density (lb/gal):	9.07		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	60.00%	0.069	127.0		

203.3  
0  
0  
203.3

<b>LSPK-2221</b> Polyester Resin (LSPK-2221)	Usage (gal):	508.5	VOC Content (wt%):	0.348	VOCs (lbs):	173.2
	Usage (lbs):	4,500.0	HAP Content (wt%):	0.348	HAPs (lbs):	173.3
			Density (lb/gal):	8.85		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	34.83%	0.039	173.3		

<b>MA300</b> ITW Plexus Adhesive (MA300)	Usage (gal):	1.2	VOC Content (wt%):	0.600	VOCs (lbs):	0.5
	Usage (lbs):	10.3	HAP Content (wt%):	0.600	HAPs (lbs):	0.5
			Density (lb/gal):	8.59		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	60.00%	0.048	0.5		

<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	Usage (gal):	242.9	VOC Content (wt%):	0.100	VOCs (lbs):	161.8
	Usage (lbs):	1,620.5	HAP Content (wt%):	0.000	HAPs (lbs):	0.0
			Density (lb/gal):	6.67		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
	No reportable HAPs	0.00%	0.000	0.0		

242.9 1620.5  
242.9 1620.5  
425.8 3241

<b>MBG02</b> Armorcote Moonbeam Gelcoat (991AK138)	Usage (gal):	9.8	VOC Content (wt%):	0.308	VOCs (lbs):	16.9
	Usage (lbs):	104.0	HAP Content (wt%):	0.308	HAPs (lbs):	16.9
			Density (lb/gal):	10.63		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	6.17%	0.053	5.5		
100-42-5	Styrene	24.66%	0.110	11.4		



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **November 2008**

<b>MBG07a</b>	Usage (gal): <b>18.1</b>	VOC Content (wt%): <b>0.306</b>	VOCs (lbs): <b>29.2</b>
Armorcote Orange Gelcoat (991YK132)	Usage (lbs): <b>187.0</b>	HAP Content (wt%): <b>0.306</b>	HAPs (lbs): <b>29.2</b>
		Density (lb/gal): <b>10.33</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.58%	0.045
100-42-5	Styrene	25.03%	0.111
			HAP/TAP Lbs
			8.4
			20.8
<b>MBG08c</b>	Usage (gal): <b>4.8</b>	VOC Content (wt%): <b>0.314</b>	VOCs (lbs): <b>8.4</b>
Armorcote Pink Gelcoat (991RK124)	Usage (lbs): <b>50.0</b>	HAP Content (wt%): <b>0.314</b>	HAPs (lbs): <b>8.4</b>
		Density (lb/gal): <b>10.52</b>	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	7.12%	0.060
100-42-5	Styrene	24.29%	0.108
			HAP/TAP Lbs
			3.0
			5.4
<b>MBM01</b>	Usage (gal): <b>66.3</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>22.6</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>608.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>10.5</b>
		Density (lb/gal): <b>9.17</b>	
CAS No	Chemical	Weight %	E-Factor
131-11-3	Dimethyl Phthalate	43.00%	0.017
			HAP/TAP Lbs
			10.5
<b>MBP01</b>	Usage (gal): <b>88.7</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>25.4</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>673.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>25.4</b>
		Density (lb/gal): <b>7.59</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	30.00%	0.038
			HAP/TAP Lbs
			25.4
<b>VSXH-2200</b>	Usage (gal): <b>218.8</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>108.0</b>
VE Resin (VSXH-2200)	Usage (lbs): <b>2,000.0</b>	HAP Content (wt%): <b>0.349</b>	HAPs (lbs): <b>77.0</b>
		Density (lb/gal): <b>9.14</b>	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	34.89%	0.039
			HAP/TAP Lbs
			77.0

140  
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187  
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327

50  
0  
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50

	Month (lbs)	Month (tons)
VOCs:	2,916	1.46
HAPs:	2,521	1.26

**Malibu Boats Merced Plant: Usage & Emissions****Month of: November 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	10	0.01
80-62-6	Methyl Methacrylate	487	0.24
	No reportable HAPs	0	0.00
100-42-5	Styrene	2,024	1.01
	<b>Total</b>	<b>2,521</b>	<b>1.26</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	25,928	0	0	0.00
Total:		25,928		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	14,407	159	2,291	1.15
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	33,220	159	5,282	2.64
5788C90279	Patch Aid Reducer (5788C90279)	33	159	5	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	930	159	148	0.07
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	159	3,175	1.59
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	3,420	159	544	0.27
953LK160	Dark Blue Gelcoat (953LK160)	315	159	50	0.03
963LK160	Dark Blue Gelcoat (963LK160)	4,570	159	727	0.36
963LK188	Midnight Blue Gelcoat (963LK188)	1,698	159	270	0.13
963RK139	Rueben Gelcoat (963RK139)	1,649	159	262	0.13
963RK140	Regal Gelcoat (963RK140)	6,006	159	955	0.48
963WH671	White Gelcoat (963WH671)	4,434	159	705	0.35
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	600	159	95	0.05
963XA221	Marine Clear Gelcoat (963XA221)	4,675	159	743	0.37
967BK150	Black Barrier Coat (967BK150)	47,843	159	7,607	3.80
991GH359	Polo Green Gelcoat (991GH359)	948	159	151	0.08
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,795	159	285	0.14
991PK105	Black Iris Gelcoat (991PK105)	676	159	107	0.05

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit				12 Months Ending November 2008		
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9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	159	412	0.21
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	159	216	0.11
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	159	168	0.08
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	159	89	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,064	159	487	0.24
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	159	119	0.06
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,012	159	161	0.08
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,872	159	298	0.15
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991WH423)	58,060	159	9,232	4.62
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	1,709	159	272	0.14
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	443	159	70	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	159	88	0.04
Total:		229,630		36,511	18.26

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	61,880	46	2,846	1.42
MBR02	Resin (LHPC3523)	237,860	46	10,942	5.47
MBR02a	Resin (LHPC4121)	441,660	46	20,316	10.16
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending November 2008</b>	
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VSXH-2200	VE Resin (VSXH-2200)	10,000	46	460	0.23
<b>Total:</b>		<b>756,000</b>		<b>34,776</b>	<b>17.39</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,604	214	557	0.28
<b>Total:</b>		<b>2,604</b>		<b>557</b>	<b>0.28</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	22,500	54	1,215	0.61
<b>Total:</b>		<b>24,420</b>		<b>1,319</b>	<b>0.66</b>

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	73,163	36.58

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	25,928	0.000	0.0	0
Total:		25,928			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	14,407	0.298	131.2	1,890
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	33,220	0.300	132.6	4,404
5788C90279	Patch Aid Reducer (5788C90279)	33	0.558	375.4	12
5799A90073	Midnight Blue Gelcoat (5799A90073)	930	0.317	145.2	135
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	0.316	144.4	2,883
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	3,420	0.319	147.1	503
953LK160	Dark Blue Gelcoat (953LK160)	315	0.362	181.8	57
963LK160	Dark Blue Gelcoat (963LK160)	4,570	0.286	122.1	558
963LK188	Midnight Blue Gelcoat (963LK188)	1,698	0.291	126.1	214
963RK139	Rueben Gelcoat (963RK139)	1,649	0.287	123.0	203
963RK140	Regal Gelcoat (963RK140)	6,006	0.288	123.7	743
963WH671	White Gelcoat (963WH671)	4,434	0.302	134.0	594

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: November 2008</b>	
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963XA220	Armorflex Marine Clear Gelcoat (963XA220)	600	0.449	260.3	156
963XA221	Marine Clear Gelcoat (963XA221)	4,675	0.447	258.9	1,210
967BK150	Black Barrier Coat (967BK150)	47,843	0.321	148.8	7,119
991GH359	Polo Green Gelcoat (991GH359)	948	0.328	153.6	146
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169
991NH788	Brown Gelcoat (991NH788)	1,795	0.318	146.4	263
991PK105	Black Iris Gelcoat (991PK105)	676	0.312	141.8	96
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	0.302	133.7	347
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	0.307	138.0	187
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	0.305	136.2	144
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	0.311	140.8	79
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,064	0.308	138.8	425
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	0.328	153.7	115
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,012	0.305	136.6	138
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,872	0.304	135.9	254
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991WH423)	58,060	0.329	154.4	8,967
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	1,709	0.306	137.3	235
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: November 2008**

MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	443	0.308	138.8	61
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	0.314	143.2	80
<b>Total:</b>		<b>229,630</b>			<b>33,577</b>
Weighted Average MACT Model Point Value:		146.2			
Intermediate MACT Model Point Value (lbs):		33,577			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	61,880	0.348	45.1	2,791
MBR02	Resin (LHPC3523)	237,860	0.316	36.2	8,607
MBR02a	Resin (LHPC4121)	441,660	0.316	36.2	15,982
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	10,000	0.349	45.3	453
<b>Total:</b>		<b>756,000</b>			<b>28,003</b>
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		28,003			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,604	0.358	178.7	465
<b>Total:</b>		<b>2,604</b>			<b>465</b>
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		465			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107



<b>Mallbu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: November 2008</b>	
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1055	Tooling Resin (1055)	22,500	0.280	27.4	617
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Total:		24,420			724
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Weighted Average MACT Model Point Value:		29.7			
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Intermediate MACT Model Point Value (lbs):		724			
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			<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:			62,770	31.39

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending: December 2008</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02
August 2008	2.70	40.08	2.44	36.09	2.02	31.55
September 2008	3.15	39.27	2.88	35.35	2.49	30.92
October 2008	3.06	38.28	2.66	34.40	2.42	30.24
November 2008	1.46	35.96	1.26	32.37	1.01	28.34
December 2008	1.64	35.04	1.53	31.65	1.45	27.97

Start

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: December 2008

<b>100BK201</b>	Usage (gal): <b>56.6</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>74.7</b>	
Jet Black Gelcoat (100BK201)	Usage (lbs): <b>515.0</b>	HAP Content (wt%): <b>0.298</b>	HAPs (lbs): <b>71.9</b>	
		Density (lb/gal): <b>9.11</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.80%	0.015	7.7
100-42-5	Styrene	28.01%	0.125	64.2
<b>200LK202</b>	Usage (gal): <b>406.6</b>	VOC Content (wt%): <b>0.305</b>	VOCs (lbs): <b>534.1</b>	
Black Barrier Coat (200LK202)	Usage (lbs): <b>3,920.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>523.3</b>	
		Density (lb/gal): <b>9.64</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.133	523.3
<b>5788C90279</b>	Usage (gal): <b>1.0</b>	VOC Content (wt%): <b>0.560</b>	VOCs (lbs): <b>0.9</b>	
Patch Aid Reducer (5788C90279)	Usage (lbs): <b>8.0</b>	HAP Content (wt%): <b>0.558</b>	HAPs (lbs): <b>0.9</b>	
		Density (lb/gal): <b>8.33</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	55.84%	0.107	0.9
<b>5799A90073</b>	Usage (gal): <b>30.3</b>	VOC Content (wt%): <b>0.327</b>	VOCs (lbs): <b>53.0</b>	
Midnight Blue Gelcoat (5799A90073)	Usage (lbs): <b>315.0</b>	HAP Content (wt%): <b>0.317</b>	HAPs (lbs): <b>49.8</b>	
		Density (lb/gal): <b>10.41</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.58%	0.038	11.8
100-42-5	Styrene	27.10%	0.121	38.0
<b>5799B90020</b>	Usage (gal): <b>388.3</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>638.7</b>	
Aztec Black Gelcoat (5799B90020)	Usage (lbs): <b>4,000.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>599.6</b>	
		Density (lb/gal): <b>10.30</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.25%	0.015	60.0
100-42-5	Styrene	30.31%	0.135	539.6
<b>5799R90052</b>	Usage (gal): <b>99.9</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>174.7</b>	
Regal Gelcoat (5799R90052)	Usage (lbs): <b>1,035.0</b>	HAP Content (wt%): <b>0.319</b>	HAPs (lbs): <b>165.2</b>	
		Density (lb/gal): <b>10.36</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.47%	0.038	38.8
100-42-5	Styrene	27.44%	0.122	126.4

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3920  

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7492  
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8  
8  
8  
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165  
315  

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480  
4000  
0  
315  
1,035  

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1350

**Mallbu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: December 2008

0  
0  
54  
54

✓

<b>963LK188</b>	Usage (gal): 5.1	VOC Content (wt%): 0.291	VOCs (lbs): 8.0
Midnight Blue Gelcoat (963LK188)	Usage (lbs): 54.0	HAP Content (wt%): 0.291	HAPs (lbs): 8.0
		Density (lb/gal): 10.63	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.88%	0.045
100-42-5	Styrene	23.24%	0.103
			HAP/TAP Lbs
			2.4
			5.6

✓

<b>970XJ037</b>	Usage (gal): 0.9	VOC Content (wt%): 0.583	VOCs (lbs): 1.0
Patchaid (970XJ037)	Usage (lbs): 8.0	HAP Content (wt%): 0.574	HAPs (lbs): 0.9
		Density (lb/gal): 8.56	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	57.40%	0.111
			HAP/TAP Lbs
			0.9

16  
8  
8  
32 +

✓

<b>Flex-Z</b>	Usage (gal): 16.0	VOC Content (wt%): 0.900	VOCs (lbs): 84.1
Flex-Z 1, 2, 3, 4, 5 & 6	Usage (lbs): 93.4	HAP Content (wt%): 0.000	HAPs (lbs): 0.0
		Density (lb/gal): 5.84	
CAS No	Chemical	Weight %	E-Factor
	No reportable HAPs	0.00%	0.000
			HAP/TAP Lbs
			0.0

0  
8  
16  
24

✓

<b>LSPK-2221</b>	Usage (gal): 395.5	VOC Content (wt%): 0.348	VOCs (lbs): 134.7
Polyester Resin (LSPK-2221)	Usage (lbs): 3,500.0	HAP Content (wt%): 0.348	HAPs (lbs): 134.8
		Density (lb/gal): 8.85	
CAS No	Chemical	Weight %	E-Factor
100-42-5	Styrene	34.83%	0.039
			HAP/TAP Lbs
			134.8

6500  
4500  
3500  
14,500

✓

<b>MA300</b>	Usage (gal): 3.9	VOC Content (wt%): 0.600	VOCs (lbs): 1.6
ITW Plexus Adhesive (MA300)	Usage (lbs): 33.3	HAP Content (wt%): 0.600	HAPs (lbs): 1.6
		Density (lb/gal): 8.59	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	60.00%	0.048
			HAP/TAP Lbs
			1.6

0.1 gal  
1.2  
3.9  
5.2 gal

✓

<b>MBG02</b>	Usage (gal): 39.9	VOC Content (wt%): 0.308	VOCs (lbs): 68.8
Armorcote Moonbeam Gelcoat (991AK138)	Usage (lbs): 424.0	HAP Content (wt%): 0.308	HAPs (lbs): 68.8
		Density (lb/gal): 10.63	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	6.17%	0.053
100-42-5	Styrene	24.66%	0.110
			HAP/TAP Lbs
			22.3
			46.5

169  
104  
424  
697

✓

<b>MBG04</b>	Usage (gal): 8.7	VOC Content (wt%): 0.305	VOCs (lbs): 14.0
Armorcote Vapor Blue Gelcoat (991LK123)	Usage (lbs): 91.0	HAP Content (wt%): 0.305	HAPs (lbs): 14.0
		Density (lb/gal): 10.43	
CAS No	Chemical	Weight %	E-Factor
80-62-6	Methyl Methacrylate	5.98%	0.045
100-42-5	Styrene	24.56%	0.109
			HAP/TAP Lbs
			4.1
			9.9

18  
0  
91  
109

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **December 2008**

MBM01	Usage (gal): <b>76.3</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>26.0</b>	
MEKP9 (Clear & Red)	Usage (lbs): <b>700.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>12.0</b>	
		Density (lb/gal): <b>9.17</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
131-11-3	Dimethyl Phthalate	43.00%	0.017	12.0
<hr/>				
MBP01	Usage (gal): <b>46.1</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>13.2</b>	
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>350.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>13.2</b>	
		Density (lb/gal): <b>7.59</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.038	13.2
<hr/>				
MBR02	Usage (gal): <b>4,247.7</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,379.7</b>	
Resin (LHPC3523)	Usage (lbs): <b>39,500.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,335.1</b>	
		Density (lb/gal): <b>9.30</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	31.62%	0.034	1,335.1
<hr/>				
VSXH-2200	Usage (gal): <b>164.1</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>81.0</b>	
VE Resin (VSXH-2200)	Usage (lbs): <b>1,500.0</b>	HAP Content (wt%): <b>0.349</b>	HAPs (lbs): <b>57.8</b>	
		Density (lb/gal): <b>9.14</b>		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	34.89%	0.039	57.8

4812  
608  
700  

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2620

46  
88.7  
746.1  

---

180.85 gal

39,500

1000  
2000  
1500  

---

4500

	Month (lbs)	Month (tons)
VOCs:	3,288	1.64
HAPs:	3,057	1.53

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **December 2008**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	12	0.01
80-62-6	Methyl Methacrylate	149	0.07
	No reportable HAPs	0	0.00
100-42-5	Styrene	2,896	1.45
	<b>Total</b>	<b>3,057</b>	<b>1.53</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	22,687	0	0	0.00
Total:		22,687		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	14,922	159	2,373	1.19
100RH540	Regal Gelcoat (100RH540)	572	159	91	0.05
100YH895	California Yellow Gelcoat (100YH895)	792	159	126	0.06
200LK202	Black Barrier Coat (200LK202)	37,140	159	5,905	2.95
5788C90279	Patch Aid Reducer (5788C90279)	41	159	7	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	159	198	0.10
5799B90020	Aztec Black Gelcoat (5799B90020)	23,970	159	3,811	1.91
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	4,455	159	708	0.35
963LK160	Dark Blue Gelcoat (963LK160)	4,570	159	727	0.36
963LK188	Midnight Blue Gelcoat (963LK188)	1,752	159	279	0.14
963RK139	Rueben Gelcoat (963RK139)	1,445	159	230	0.11
963RK140	Regal Gelcoat (963RK140)	5,592	159	889	0.44
963WH671	White Gelcoat (963WH671)	4,434	159	705	0.35
963XA221	Marine Clear Gelcoat (963XA221)	4,675	159	743	0.37
967BK150	Black Barrier Coat (967BK150)	43,803	159	6,965	3.48
991GH359	Polo Green Gelcoat (991GH359)	795	159	126	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,639	159	261	0.13
991PK105	Black Iris Gelcoat (991PK105)	676	159	107	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	159	412	0.21
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	159	216	0.11
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	159	168	0.08

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit				12 Months Ending December 2008		
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9EXFB395	Charcoal Gelcoat (9EXFB395)	561	159	89	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,014	159	479	0.24
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	159	119	0.06
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	895	159	142	0.07
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,293	159	206	0.10
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991WH423)	51,100	159	8,125	4.06
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	1,709	159	272	0.14
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	342	159	54	0.03
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	159	88	0.04
Total:		224,527		35,700	17.85

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	58,660	46	2,698	1.35
MBR02	Resin (LHPC3523)	237,320	46	10,917	5.46
MBR02a	Resin (LHPC4121)	441,660	46	20,316	10.16
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11
VSXH-2200	VE Resin (VSXH-2200)	11,500	46	529	0.26
Total:		753,740		34,672	17.34



*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,604	214	557	0.28
Total:		2,604		557	0.28

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	20,500	54	1,107	0.55
Total:		22,420		1,211	0.61

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	72,140	36.07

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	22,687	0.000	0.0	0
Total:		22,687			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	14,922	0.298	131.2	1,957
100RH540	Regal Gelcoat (100RH540)	572	0.320	147.6	84
100YH895	California Yellow Gelcoat (100YH895)	792	0.323	150.3	119
200LK202	Black Barrier Coat (200LK202)	37,140	0.300	132.6	4,924
5788C90279	Patch Aid Reducer (5788C90279)	41	0.558	375.4	15
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	0.317	145.2	181
5799B90020	Aztec Black Gelcoat (5799B90020)	23,970	0.316	144.4	3,460
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	4,455	0.319	147.1	655
963LK160	Dark Blue Gelcoat (963LK160)	4,570	0.286	122.1	558
963LK188	Midnight Blue Gelcoat (963LK188)	1,752	0.291	126.1	221
963RK139	Rueben Gelcoat (963RK139)	1,445	0.287	123.0	178
963RK140	Regal Gelcoat (963RK140)	5,592	0.288	123.7	692
963WH671	White Gelcoat (963WH671)	4,434	0.302	134.0	594
963XA221	Marine Clear Gelcoat (963XA221)	4,675	0.447	258.9	1,210
967BK150	Black Barrier Coat (967BK150)	43,803	0.321	148.8	6,517

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: December 2008</b>	
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991GH359	Polo Green Gelcoat (991GH359)	795	0.328	153.6	122
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169
991NH788	Brown Gelcoat (991NH788)	1,639	0.318	146.4	240
991PK105	Black Iris Gelcoat (991PK105)	676	0.312	141.8	96
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	0.302	133.7	347
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	0.307	138.0	187
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	0.305	136.2	144
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	0.311	140.8	79
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,014	0.308	138.8	418
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	0.328	153.7	115
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	895	0.305	136.6	122
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,293	0.304	135.9	176
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991WH423)	51,100	0.329	154.4	7,892
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	1,709	0.306	137.3	235
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: December 2008</b>
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MBG08b	Armorcote Sangrial Gelcoat (991RK118)	342	0.308	138.8	47
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	0.314	143.2	80
<b>Total:</b>		<b>224,527</b>			<b>32,634</b>
Weighted Average MACT Model Point Value:		145.3			
Intermediate MACT Model Point Value (lbs):		32,634			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	58,660	0.348	45.1	2,645
MBR02	Resin (LHPC3523)	237,320	0.316	36.2	8,588
MBR02a	Resin (LHPC4121)	441,660	0.316	36.2	15,982
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	11,500	0.349	45.3	520
<b>Total:</b>		<b>753,740</b>			<b>27,906</b>
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		27,906			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,604	0.358	178.7	465
<b>Total:</b>		<b>2,604</b>			<b>465</b>
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		465			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	20,500	0.280	27.4	563

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending: December 2008**

Total:	22,420	669
Weighted Average MACT Model Point Value:	29.9	
Intermediate MACT Model Point Value (lbs):	669	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	61,675	30.84

**Malibu Boats Merced Plant: Monthly & 12 Month Rolling Emissions Summary** Year Ending: **January 2009**

Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02
August 2008	2.70	40.08	2.44	36.09	2.02	31.55
September 2008	3.15	39.27	2.88	35.35	2.49	30.92
October 2008	3.06	38.28	2.66	34.40	2.42	30.24
November 2008	1.46	35.96	1.26	32.37	1.01	28.34
December 2008	1.64	35.04	1.53	31.65	1.45	27.97
January 2009	1.08	30.29	0.98	27.44	0.90	24.14

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **January 2009**

<b>5799E90056</b> Charcoal Gelcoat (5799E90056)	Usage (gal): <b>30.0</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>52.6</b>
	Usage (lbs): <b>315.0</b>	HAP Content (wt%): <b>0.315</b>	HAPs (lbs): <b>49.6</b>
		Density (lb/gal): <b>10.49</b>	

315  
0  
---  
315

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.58%	0.038	11.8
100-42-5	Styrene	26.97%	0.120	37.8

<b>5799L90035</b> Ca Yellow Gelcoat (5799L90035)	Usage (gal): <b>8.8</b>	VOC Content (wt%): <b>0.336</b>	VOCs (lbs): <b>15.0</b>
	Usage (lbs): <b>90.0</b>	HAP Content (wt%): <b>0.328</b>	HAPs (lbs): <b>14.3</b>
		Density (lb/gal): <b>10.21</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	3.76%	0.030	2.7
100-42-5	Styrene	29.09%	0.129	11.6

<b>5799R90052</b> Regal Gelcoat (5799R90052)	Usage (gal): <b>8.7</b>	VOC Content (wt%): <b>0.328</b>	VOCs (lbs): <b>15.2</b>
	Usage (lbs): <b>90.0</b>	HAP Content (wt%): <b>0.319</b>	HAPs (lbs): <b>14.4</b>
		Density (lb/gal): <b>10.36</b>	

90  
0  
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90

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	4.47%	0.038	3.4
100-42-5	Styrene	27.44%	0.122	11.0

<b>963RK140</b> Regal Gelcoat (963RK140)	Usage (gal): <b>4.8</b>	VOC Content (wt%): <b>0.288</b>	VOCs (lbs): <b>7.6</b>
	Usage (lbs): <b>51.0</b>	HAP Content (wt%): <b>0.288</b>	HAPs (lbs): <b>7.6</b>
		Density (lb/gal): <b>10.61</b>	

51  
0  
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51

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.62%	0.045	2.3
100-42-5	Styrene	23.16%	0.103	5.3

<b>963WH671</b> White Gelcoat (963WH671)	Usage (gal): <b>192.6</b>	VOC Content (wt%): <b>0.310</b>	VOCs (lbs): <b>359.7</b>
	Usage (lbs): <b>2,170.0</b>	HAP Content (wt%): <b>0.302</b>	HAPs (lbs): <b>342.8</b>
		Density (lb/gal): <b>11.27</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.49%	0.053	113.9
100-42-5	Styrene	23.71%	0.105	228.9

<b>967BK150</b> Black Barrier Coat (967BK150)	Usage (gal): <b>104.0</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>180.6</b>
	Usage (lbs): <b>1,010.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>144.4</b>
		Density (lb/gal): <b>9.71</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.14%	0.143	144.4

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **January 2009**

<b>IPSAadh</b> IPS Adhesive & Activator	Usage (gal): <b>19.1</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>11.9</b>
	Usage (lbs): <b>173.2</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>11.9</b>
		Density (lb/gal): <b>9.07</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.069	11.9

<b>MBA01</b> Westech HS-MAC18, HP-MAC18 & MPEA	Usage (gal): <b>121.4</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>80.9</b>
	Usage (lbs): <b>810.2</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

<b>MBG08b</b> Armorcote Sangrial Gelcoat (991RK118)	Usage (gal): <b>4.9</b>	VOC Content (wt%): <b>0.308</b>	VOCs (lbs): <b>8.0</b>
	Usage (lbs): <b>51.0</b>	HAP Content (wt%): <b>0.308</b>	HAPs (lbs): <b>8.0</b>
		Density (lb/gal): <b>10.45</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.55%	0.045	2.3
100-42-5	Styrene	25.28%	0.113	5.7

51  
0  
51

<b>MBM01</b> MEKP9 (Clear & Red)	Usage (gal): <b>52.3</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>17.9</b>
	Usage (lbs): <b>480.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>8.3</b>
		Density (lb/gal): <b>9.17</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
131-11-3	Dimethyl Phthalate	43.00%	0.017	8.3

<b>MBP01</b> EZ Bond Adhesive (5787W00077)	Usage (gal): <b>46.1</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>13.2</b>
	Usage (lbs): <b>350.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>13.2</b>
		Density (lb/gal): <b>7.59</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.038	13.2

<b>MBR02</b> Resin (LHPC3523)	Usage (gal): <b>4,286.4</b>	VOC Content (wt%): <b>0.326</b>	VOCs (lbs): <b>1,392.3</b>
	Usage (lbs): <b>39,860.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>1,347.3</b>
		Density (lb/gal): <b>9.30</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	31.62%	0.034	1,347.3

	Month (lbs)	Month (tons)
<b>VOCs:</b>	2,155	1.08
<b>HAPs:</b>	1,962	0.98



**Malibu Boats Merced Plant: Usage & Emissions**Month of: **January 2009**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	8	0.00
80-62-6	Methyl Methacrylate	148	0.07
	No reportable HAPs	0	0.00
100-42-5	Styrene	1,805	0.90
	<b>Total</b>	<b>1,962</b>	<b>0.98</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	18,636	0	0	0.00
Total:		18,636		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	13,512	159	2,148	1.07
200LK202	Black Barrier Coat (200LK202)	37,140	159	5,905	2.95
5788C90279	Patch Aid Reducer (5788C90279)	41	159	7	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	159	198	0.10
5799B90020	Aztec Black Gelcoat (5799B90020)	23,970	159	3,811	1.91
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	159	236	0.12
5799L90035	Ca Yellow Gelcoat (5799L90035)	448	159	71	0.04
5799R90052	Regal Gelcoat (5799R90052)	4,545	159	723	0.36
963LK160	Dark Blue Gelcoat (963LK160)	3,787	159	602	0.30
963LK188	Midnight Blue Gelcoat (963LK188)	974	159	155	0.08
963RK139	Rueben Gelcoat (963RK139)	1,201	159	191	0.10
963RK140	Regal Gelcoat (963RK140)	3,529	159	561	0.28
963WH671	White Gelcoat (963WH671)	6,604	159	1,050	0.53
963XA221	Marine Clear Gelcoat (963XA221)	4,515	159	718	0.36
967BK150	Black Barrier Coat (967BK150)	32,693	159	5,198	2.60
991GH359	Polo Green Gelcoat (991GH359)	795	159	126	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,639	159	261	0.13
991PK105	Black Iris Gelcoat (991PK105)	676	159	107	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	159	412	0.21
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	159	216	0.11
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	159	168	0.08
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	159	89	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,284	159	363	0.18

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: January 2009</b>
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	895	159	142	0.07
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,187	159	189	0.09
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991VH423)	44,744	159	7,114	3.56
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	159	152	0.08
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	303	159	48	0.02
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	159	88	0.04
<b>Total:</b>		<b>200,011</b>		<b>31,802</b>	<b>15.90</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	49,000	46	2,254	1.13
MBR02	Resin (LHPC3523)	118,620	46	5,457	2.73
MBR02a	Resin (LHPC4121)	441,660	46	20,316	10.16
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11
VSXH-2200	VE Resin (VSXH-2200)	10,500	46	483	0.24
<b>Total:</b>		<b>624,380</b>		<b>28,721</b>	<b>14.36</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,199	214	471	0.24
<b>Total:</b>		<b>2,199</b>		<b>471</b>	<b>0.24</b>

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: January 2009</b>
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*Tooling Resin, Non-Atomized*

	Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
					Pounds	Tons
	040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
	1055	Tooling Resin (1055)	20,500	54	1,107	0.55
	Total:		22,420		1,211	0.61

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	62,204	31.10

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	18,636	0.000	0.0	0
Total:		18,636			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	13,512	0.298	131.2	1,772
200LK202	Black Barrier Coat (200LK202)	37,140	0.300	132.6	4,924
5788C90279	Patch Aid Reducer (5788C90279)	41	0.558	375.4	15
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	0.317	145.2	181
5799B90020	Aztec Black Gelcoat (5799B90020)	23,970	0.316	144.4	3,460
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	0.315	144.2	214
5799L90035	Ca Yellow Gelcoat (5799L90035)	448	0.328	154.4	69
5799R90052	Regal Gelcoat (5799R90052)	4,545	0.319	147.1	668
963LK160	Dark Blue Gelcoat (963LK160)	3,787	0.286	122.1	462
963LK188	Midnight Blue Gelcoat (963LK188)	974	0.291	126.1	123
963RK139	Rueben Gelcoat (963RK139)	1,201	0.287	123.0	148
963RK140	Regal Gelcoat (963RK140)	3,529	0.288	123.7	437
963WH671	White Gelcoat (963WH671)	6,604	0.302	134.0	885
963XA221	Marine Clear Gelcoat (963XA221)	4,515	0.447	258.9	1,169
967BK150	Black Barrier Coat (967BK150)	32,693	0.321	148.8	4,864
991GH359	Polo Green Gelcoat (991GH359)	795	0.328	153.6	122
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: January 2009**

991NH788	Brown Gelcoat (991NH788)	1,639	0.318	146.4	240
991PK105	Black Iris Gelcoat (991PK105)	676	0.312	141.8	96
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	0.302	133.7	347
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	0.307	138.0	187
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	0.305	136.2	144
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	0.311	140.8	79
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,284	0.308	138.8	317
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	895	0.305	136.6	122
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,187	0.304	135.9	161
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991WH423)	44,744	0.329	154.4	6,911
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	0.306	137.3	131
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	303	0.308	138.8	42
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	0.314	143.2	80

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Total:	200,011	29,039
Weighted Average MACT Model Point Value:	145.2	
Intermediate MACT Model Point Value (lbs):	29,039	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	49,000	0.348	45.1	2,210
MBR02	Resin (LHPC3523)	118,620	0.316	36.2	4,292
MBR02a	Resin (LHPC4121)	441,660	0.316	36.2	15,982
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	10,500	0.349	45.3	475
Total:		624,380			23,130
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		23,130			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,199	0.358	178.7	393
Total:		2,199			393
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		393			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	20,500	0.280	27.4	563
Total:		22,420			669
Weighted Average MACT Model Point Value:		29.9			
Intermediate MACT Model Point Value (lbs):		669			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	53,231	26.62

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending: February 2009</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02
August 2008	2.70	40.08	2.44	36.09	2.02	31.55
September 2008	3.15	39.27	2.88	35.35	2.49	30.92
October 2008	3.06	38.28	2.66	34.40	2.42	30.24
November 2008	1.46	35.96	1.26	32.37	1.01	28.34
December 2008	1.64	35.04	1.53	31.65	1.45	27.97
January 2009	1.08	30.29	0.98	27.44	0.90	24.14
February 2009	1.62	28.06	1.51	25.50	1.28	22.49



**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions**

Month of: **February 2009**

<b>5788C90007</b>	Usage (gal): <b>5.0</b>	VOC Content (wt%): <b>0.950</b>	VOCs (lbs): <b>35.6</b>
Surfacing Agent 85-X3 (5788C90007)	Usage (lbs): <b>37.5</b>	HAP Content (wt%): <b>0.950</b>	HAPs (lbs): <b>35.6</b>
		Density (lb/gal): <b>7.50</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	95.00%	0.950	35.6

<b>5788C90279</b>	Usage (gal): <b>1.0</b>	VOC Content (wt%): <b>0.560</b>	VOCs (lbs): <b>0.9</b>
Patch Aid Reducer (5788C90279)	Usage (lbs): <b>8.0</b>	HAP Content (wt%): <b>0.558</b>	HAPs (lbs): <b>0.9</b>
		Density (lb/gal): <b>8.33</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	55.84%	0.107	0.9

<b>5799B90020</b>	Usage (gal): <b>397.1</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>653.1</b>
Aztec Black Gelcoat (5799B90020)	Usage (lbs): <b>4,090.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>613.1</b>
		Density (lb/gal): <b>10.30</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.25%	0.015	61.4
100-42-5	Styrene	30.31%	0.135	551.7

<b>5799L90035</b>	Usage (gal): <b>8.8</b>	VOC Content (wt%): <b>0.336</b>	VOCs (lbs): <b>15.0</b>
Ca Yellow Gelcoat (5799L90035)	Usage (lbs): <b>90.0</b>	HAP Content (wt%): <b>0.328</b>	HAPs (lbs): <b>14.3</b>
		Density (lb/gal): <b>10.21</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	3.76%	0.030	2.7
100-42-5	Styrene	29.09%	0.129	11.6

<b>963LK160</b>	Usage (gal): <b>14.4</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>24.5</b>
Dark Blue Gelcoat (963LK160)	Usage (lbs): <b>153.0</b>	HAP Content (wt%): <b>0.286</b>	HAPs (lbs): <b>22.4</b>
		Density (lb/gal): <b>10.60</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.77%	0.045	6.9
100-42-5	Styrene	22.78%	0.101	15.5

<b>963LK188</b>	Usage (gal): <b>4.9</b>	VOC Content (wt%): <b>0.291</b>	VOCs (lbs): <b>7.7</b>
Midnight Blue Gelcoat (963LK188)	Usage (lbs): <b>52.0</b>	HAP Content (wt%): <b>0.291</b>	HAPs (lbs): <b>7.7</b>
		Density (lb/gal): <b>10.63</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.88%	0.045	2.3
100-42-5	Styrene	23.24%	0.103	5.4

20

0  
8  
0  
8

90  
90  
0  
180

0  
52  
0  
52

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **February 2009**

<b>963WH671</b>	Usage (gal): <b>406.5</b>	VOC Content (wt%): <b>0.310</b>	VOCs (lbs): <b>759.2</b>
White Gelcoat (963WH671)	Usage (lbs): <b>4,580.0</b>	HAP Content (wt%): <b>0.302</b>	HAPs (lbs): <b>723.6</b>
		Density (lb/gal): <b>11.27</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.49%	0.053	240.5
100-42-5	Styrene	23.71%	0.105	483.1

<b>963XA221</b>	Usage (gal): <b>30.7</b>	VOC Content (wt%): <b>0.453</b>	VOCs (lbs): <b>66.8</b>
Marine Clear Gelcoat (963XA221)	Usage (lbs): <b>269.0</b>	HAP Content (wt%): <b>0.447</b>	HAPs (lbs): <b>65.4</b>
		Density (lb/gal): <b>8.78</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	10.00%	0.075	20.2
100-42-5	Styrene	34.73%	0.168	45.2

0  
269  
0  
269

<b>970XJ037</b>	Usage (gal): <b>0.9</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>1.0</b>
Patchaid (970XJ037)	Usage (lbs): <b>8.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>0.9</b>
		Density (lb/gal): <b>8.56</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	57.40%	0.111	0.9

<b>IPSAdh</b>	Usage (gal): <b>179.4</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>112.2</b>
IPS Adhesive & Activator	Usage (lbs): <b>1,626.6</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>112.0</b>
		Density (lb/gal): <b>9.07</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.069	112.0

19.1 gal  
179.4 gal  
0  
198.5

<b>LSPK-2221</b>	Usage (gal): <b>113.0</b>	VOC Content (wt%): <b>0.348</b>	VOCs (lbs): <b>38.5</b>
Polyester Resin (LSPK-2221)	Usage (lbs): <b>1,000.0</b>	HAP Content (wt%): <b>0.348</b>	HAPs (lbs): <b>38.5</b>
		Density (lb/gal): <b>8.85</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	34.83%	0.039	38.5

0  
1000  
0  
1000

<b>MA300</b>	Usage (gal): <b>2.4</b>	VOC Content (wt%): <b>0.600</b>	VOCs (lbs): <b>1.0</b>
ITW Plexus Adhesive (MA300)	Usage (lbs): <b>20.7</b>	HAP Content (wt%): <b>0.600</b>	HAPs (lbs): <b>1.0</b>
		Density (lb/gal): <b>8.59</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	60.00%	0.048	1.0

0  
2.4  
0  
2.4 gal

<b>MBA01</b>	Usage (gal): <b>121.4</b>	VOC Content (wt%): <b>0.100</b>	VOCs (lbs): <b>80.9</b>
Westech HS-MAC18, HP-MAC18 & MPEA	Usage (lbs): <b>810.2</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.67</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

gal Lb  
121.4 810.2  
121.4 810.2  
242.8 1620.4

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: February 2009

<b>MBG04</b> Armorcote Vapor Blue Gelcoat (991LK123)	Usage (gal):	8.7	VOC Content (wt%):	0.305	VOCs (lbs):	14.0
	Usage (lbs):	91.0	HAP Content (wt%):	0.305	HAPs (lbs):	14.0
			Density (lb/gal):	10.43		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
80-62-6	Methyl Methacrylate	5.98%	0.045	4.1		
100-42-5	Styrene	24.56%	0.109	9.9		

0  
91  
0  
91

<b>MBM01</b> MEKP9 (Clear & Red)	Usage (gal):	76.3	VOC Content (wt%):	0.450	VOCs (lbs):	26.0
	Usage (lbs):	700.0	HAP Content (wt%):	0.430	HAPs (lbs):	12.0
			Density (lb/gal):	9.17		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
131-11-3	Dimethyl Phthalate	43.00%	0.017	12.0		

<b>MBR02</b> Resin (LHPC3523)	Usage (gal):	4,260.6	VOC Content (wt%):	0.326	VOCs (lbs):	1,383.9
	Usage (lbs):	39,620.0	HAP Content (wt%):	0.316	HAPs (lbs):	1,339.2
			Density (lb/gal):	9.30		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	31.62%	0.034	1,339.2		

39,860  
39,620  
0  
79,480

<b>VSXH-2200</b> VE Resin (VSXH-2200)	Usage (gal):	54.7	VOC Content (wt%):	0.364	VOCs (lbs):	27.0
	Usage (lbs):	500.0	HAP Content (wt%):	0.349	HAPs (lbs):	19.3
			Density (lb/gal):	9.14		
CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs		
100-42-5	Styrene	34.89%	0.039	19.3		

0  
500  
0  
500

	Month (lbs)	Month (tons)
<b>VOCs:</b>	3,247	1.62
<b>HAPs:</b>	3,020	1.51

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **February 2009**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	12	0.01
80-62-6	Methyl Methacrylate	451	0.23
	No reportable HAPs	0	0.00
100-42-5	Styrene	2,557	1.28
	<b>Total</b>	<b>3,020</b>	<b>1.51</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	16,205	0	0	0.00
Total:		16,205		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	9,842	159	1,565	0.78
200LK202	Black Barrier Coat (200LK202)	37,140	159	5,905	2.95
5788C90279	Patch Aid Reducer (5788C90279)	49	159	8	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	159	198	0.10
5799B90020	Aztec Black Gelcoat (5799B90020)	28,060	159	4,462	2.23
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	159	236	0.12
5799L90035	Ca Yellow Gelcoat (5799L90035)	538	159	86	0.04
5799R90052	Regal Gelcoat (5799R90052)	4,545	159	723	0.36
963LK160	Dark Blue Gelcoat (963LK160)	3,940	159	626	0.31
963LK188	Midnight Blue Gelcoat (963LK188)	1,026	159	163	0.08
963RK139	Rueben Gelcoat (963RK139)	747	159	119	0.06
963RK140	Regal Gelcoat (963RK140)	2,512	159	399	0.20
963WH671	White Gelcoat (963WH671)	11,184	159	1,778	0.89
963XA221	Marine Clear Gelcoat (963XA221)	2,474	159	393	0.20
967BK150	Black Barrier Coat (967BK150)	28,653	159	4,556	2.28
991GH359	Polo Green Gelcoat (991GH359)	795	159	126	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,081	159	172	0.09
991PK105	Black Iris Gelcoat (991PK105)	534	159	85	0.04
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,765	159	281	0.14
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	276	159	44	0.02
9EXFB389	CA Yellow Gelcoat (9EXFB389)	335	159	53	0.03
9EXFB395	Charcoal Gelcoat (9EXFB395)	111	159	18	0.01
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,189	159	348	0.17

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: February 2009</b>
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	986	159	157	0.08
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,187	159	189	0.09
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991WH423)	37,762	159	6,004	3.00
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	159	152	0.08
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	303	159	48	0.02
MBG08c	Armorcote Pink Gelcoat (991RK124)	510	159	81	0.04
<b>Total:</b>		<b>186,952</b>		<b>29,725</b>	<b>14.86</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	42,500	46	1,955	0.98
MBR02	Resin (LHPC3523)	118,980	46	5,473	2.74
MBR02a	Resin (LHPC4121)	402,240	46	18,503	9.25
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11
VSXH-2200	VE Resin (VSXH-2200)	11,000	46	506	0.25
<b>Total:</b>		<b>579,320</b>		<b>26,649</b>	<b>13.32</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,199	214	471	0.24
<b>Total:</b>		<b>2,199</b>		<b>471</b>	<b>0.24</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	20,500	54	1,107	0.55
Total:		22,420		1,211	0.61

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	58,055	29.03

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	16,205	0.000	0.0	0
Total:		16,205			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	9,842	0.298	131.2	1,291
200LK202	Black Barrier Coat (200LK202)	37,140	0.300	132.6	4,924
5788C90279	Patch Aid Reducer (5788C90279)	49	0.558	375.4	18
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	0.317	145.2	181
5799B90020	Aztec Black Gelcoat (5799B90020)	28,060	0.316	144.4	4,051
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	0.315	144.2	214
5799L90035	Ca Yellow Gelcoat (5799L90035)	538	0.328	154.4	83
5799R90052	Regal Gelcoat (5799R90052)	4,545	0.319	147.1	668
963LK160	Dark Blue Gelcoat (963LK160)	3,940	0.286	122.1	481
963LK188	Midnight Blue Gelcoat (963LK188)	1,026	0.291	126.1	129
963RK139	Rueben Gelcoat (963RK139)	747	0.287	123.0	92
963RK140	Regal Gelcoat (963RK140)	2,512	0.288	123.7	311
963WH671	White Gelcoat (963WH671)	11,184	0.302	134.0	1,499
963XA221	Marine Clear Gelcoat (963XA221)	2,474	0.447	258.9	640
967BK150	Black Barrier Coat (967BK150)	28,653	0.321	148.8	4,263
991GH359	Polo Green Gelcoat (991GH359)	795	0.328	153.6	122
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169



<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: February 2009</b>	
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991NH788	Brown Gelcoat (991NH788)	1,081	0.318	146.4	158
991PK105	Black Iris Gelcoat (991PK105)	534	0.312	141.8	76
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,765	0.302	133.7	236
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	276	0.307	138.0	38
9EXFB389	CA Yellow Gelcoat (9EXFB389)	335	0.305	136.2	46
9EXFB395	Charcoal Gelcoat (9EXFB395)	111	0.311	140.8	16
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,189	0.308	138.8	304
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	986	0.305	136.6	135
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,187	0.304	135.9	161
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991WH423)	37,762	0.329	154.4	5,832
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	0.306	137.3	131
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	303	0.308	138.8	42
MBG08c	Armorcote Pink Gelcoat (991RK124)	510	0.314	143.2	73

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Total:	186,952	26,884
Weighted Average MACT Model Point Value:	143.8	
Intermediate MACT Model Point Value (lbs):	26,884	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	42,500	0.348	45.1	1,917
MBR02	Resin (LHPC3523)	118,980	0.316	36.2	4,305
MBR02a	Resin (LHPC4121)	402,240	0.316	36.2	14,555
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	11,000	0.349	45.3	498
Total:		579,320			21,446
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		21,446			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,199	0.358	178.7	393
Total:		2,199			393
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		393			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	20,500	0.280	27.4	563
Total:		22,420			669
Weighted Average MACT Model Point Value:		29.9			
Intermediate MACT Model Point Value (lbs):		669			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	49,392	24.70

<b>Malibu Boats Merced Plant: Monthly &amp; 12 Month Rolling Emissions Summary</b>	<b>Year Ending:</b>	<b>March 2009</b>
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<b>Month</b>	<b>Month VOC (ton)</b>	<b>12 Month VOC (ton)</b>	<b>Month HAP (ton)</b>	<b>12 Month HAP (ton)</b>	<b>Month Styrene (ton)</b>	<b>12 Month Styrene (ton)</b>
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02
August 2008	2.70	40.08	2.44	36.09	2.02	31.55
September 2008	3.15	39.27	2.88	35.35	2.49	30.92
October 2008	3.06	38.28	2.66	34.40	2.42	30.24
November 2008	1.46	35.96	1.26	32.37	1.01	28.34
December 2008	1.64	35.04	1.53	31.65	1.45	27.97
January 2009	1.08	30.29	0.98	27.44	0.90	24.14
February 2009	1.62	28.06	1.51	25.50	1.28	22.49
March 2009	0.59	26.03	0.50	23.60	0.42	20.83

**Mallibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **March 2009**

<b>3MFinesse</b> 3M Finesse-it II Finishing Material	Usage (gal): <b>24.0</b>	VOC Content (wt%): <b>0.170</b>	VOCs (lbs): <b>35.0</b>
	Usage (lbs): <b>206.2</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>8.59</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

<b>3MMUPaste</b> 3M Marine Ultra Paste Wax	Usage (gal): <b>0.4</b>	VOC Content (wt%): <b>0.338</b>	VOCs (lbs): <b>1.0</b>
	Usage (lbs): <b>2.9</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>6.93</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

<b>5799B90020</b> Aztec Black Gelcoat (5799B90020)	Usage (gal): <b>88.8</b>	VOC Content (wt%): <b>0.325</b>	VOCs (lbs): <b>146.1</b>
	Usage (lbs): <b>915.0</b>	HAP Content (wt%): <b>0.316</b>	HAPs (lbs): <b>137.2</b>
		Density (lb/gal): <b>10.30</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	1.25%	0.015	13.7
100-42-5	Styrene	30.31%	0.135	123.4

4090  
915  
5005

<b>963LK160</b> Dark Blue Gelcoat (963LK160)	Usage (gal): <b>29.3</b>	VOC Content (wt%): <b>0.301</b>	VOCs (lbs): <b>49.6</b>
	Usage (lbs): <b>310.0</b>	HAP Content (wt%): <b>0.286</b>	HAPs (lbs): <b>45.4</b>
		Density (lb/gal): <b>10.60</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	5.77%	0.045	14.0
100-42-5	Styrene	22.78%	0.101	31.4

153  
310  
463

<b>963WH671</b> White Gelcoat (963WH671)	Usage (gal): <b>202.4</b>	VOC Content (wt%): <b>0.310</b>	VOCs (lbs): <b>378.0</b>
	Usage (lbs): <b>2,280.0</b>	HAP Content (wt%): <b>0.302</b>	HAPs (lbs): <b>360.2</b>
		Density (lb/gal): <b>11.27</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
80-62-6	Methyl Methacrylate	6.49%	0.053	119.7
100-42-5	Styrene	23.71%	0.105	240.5

2170  
4580  
2280  
9030

<b>967BK150</b> Black Barrier Coat (967BK150)	Usage (gal): <b>312.1</b>	VOC Content (wt%): <b>0.364</b>	VOCs (lbs): <b>541.9</b>
	Usage (lbs): <b>3,030.0</b>	HAP Content (wt%): <b>0.321</b>	HAPs (lbs): <b>433.3</b>
		Density (lb/gal): <b>9.71</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	32.14%	0.143	433.3

1010  
3030  
4,040

<b>970XJ037</b> Patchaid (970XJ037)	Usage (gal): <b>0.9</b>	VOC Content (wt%): <b>0.583</b>	VOCs (lbs): <b>1.0</b>
	Usage (lbs): <b>8.0</b>	HAP Content (wt%): <b>0.574</b>	HAPs (lbs): <b>0.9</b>
		Density (lb/gal): <b>8.56</b>	

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	57.40%	0.111	0.9

0  
8  
8  
16

**Malibu Boats Merced Plant: Usage and VOC & HAP Emissions** Month of: **March 2009**

<b>ADH4011</b>	Usage (gal): <b>0.3</b>	VOC Content (wt%): <b>0.549</b>	VOCs (lbs): <b>1.1</b>
Conbond (ADH4011)	Usage (lbs): <b>2.0</b>	HAP Content (wt%): <b>0.000</b>	HAPs (lbs): <b>0.0</b>
		Density (lb/gal): <b>7.11</b>	

0  
0  
0.3 gal  
0.3 gal

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
	No reportable HAPs	0.00%	0.000	0.0

<b>MBM01</b>	Usage (gal): <b>20.9</b>	VOC Content (wt%): <b>0.450</b>	VOCs (lbs): <b>7.1</b>
MEKP9 (Clear & Red)	Usage (lbs): <b>192.0</b>	HAP Content (wt%): <b>0.430</b>	HAPs (lbs): <b>3.3</b>
		Density (lb/gal): <b>9.17</b>	

480  
700  
192  
1372

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
131-11-3	Dimethyl Phthalate	43.00%	0.017	3.3

<b>MBP01</b>	Usage (gal): <b>46.1</b>	VOC Content (wt%): <b>0.300</b>	VOCs (lbs): <b>13.2</b>
EZ Bond Adhesive (5787W00077)	Usage (lbs): <b>350.0</b>	HAP Content (wt%): <b>0.300</b>	HAPs (lbs): <b>13.2</b>
		Density (lb/gal): <b>7.59</b>	

46.1  
0  
46.1  
92.2

CAS No	Chemical	Weight %	E-Factor	HAP/TAP Lbs
100-42-5	Styrene	30.00%	0.038	13.2

Month (lbs)                      Month (tons)

<b>VOCs:</b>	1,174	0.59
<b>HAPs:</b>	993	0.50

**Malibu Boats Merced Plant: Usage & Emissions**Month of: **March 2009**

CAS No	Chemical	Emissions (lbs)	Emissions (tons)
131-11-3	Dimethyl Phthalate	3	0.00
80-62-6	Methyl Methacrylate	147	0.07
	No reportable HAPs	0	0.00
100-42-5	Styrene	843	0.42
	<b>Total</b>	<b>993</b>	<b>0.50</b>

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	16,205	0	0	0.00
Total:		16,205		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,492	159	1,191	0.60
200LK202	Black Barrier Coat (200LK202)	37,140	159	5,905	2.95
5788C90279	Patch Aid Reducer (5788C90279)	49	159	8	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	159	198	0.10
5799B90020	Aztec Black Gelcoat (5799B90020)	28,975	159	4,607	2.30
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	159	236	0.12
5799L90035	Ca Yellow Gelcoat (5799L90035)	538	159	86	0.04
5799R90052	Regal Gelcoat (5799R90052)	4,545	159	723	0.36
963LK160	Dark Blue Gelcoat (963LK160)	3,688	159	586	0.29
963LK188	Midnight Blue Gelcoat (963LK188)	1,026	159	163	0.08
963RK139	Rueben Gelcoat (963RK139)	462	159	73	0.04
963RK140	Regal Gelcoat (963RK140)	1,147	159	182	0.09
963WH671	White Gelcoat (963WH671)	13,464	159	2,141	1.07
963XA221	Marine Clear Gelcoat (963XA221)	2,274	159	362	0.18
967BK150	Black Barrier Coat (967BK150)	23,603	159	3,753	1.88
991GH359	Polo Green Gelcoat (991GH359)	795	159	126	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,081	159	172	0.09
991PK105	Black Iris Gelcoat (991PK105)	438	159	70	0.03
9EXFB379	Dark Blue Gelcoat (9EXFB379)	616	159	98	0.05
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	276	159	44	0.02
9EXFB389	CA Yellow Gelcoat (9EXFB389)	200	159	32	0.02
9EXFB395	Charcoal Gelcoat (9EXFB395)	111	159	18	0.01
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,094	159	333	0.17

**Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit** **12 Months Ending: March 2009**

Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	986	159	157	0.08
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	995	159	158	0.08
MBG05a	Armorcote Platinum Gelcoat (991NK124)	546	159	87	0.04
MBG06	Armorcote White Gelcoat (991WH423)	33,140	159	5,269	2.63
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	159	152	0.08
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	203	159	32	0.02
MBG08c	Armorcote Pink Gelcoat (991RK124)	361	159	57	0.03
<b>Total:</b>		<b>173,358</b>		<b>27,564</b>	<b>13.78</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	38,000	46	1,748	0.87
MBR02	Resin (LHPC3523)	118,980	46	5,473	2.74
MBR02a	Resin (LHPC4121)	361,980	46	16,651	8.33
VLER-4000	VE Resin (VLER-4000)	3,700	46	170	0.09
VSXH-2200	VE Resin (VSXH-2200)	11,000	46	506	0.25
<b>Total:</b>		<b>533,660</b>		<b>24,548</b>	<b>12.27</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,199	214	471	0.24
<b>Total:</b>		<b>2,199</b>		<b>471</b>	<b>0.24</b>



*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	20,500	54	1,107	0.55
Total:		22,420		1,211	0.61

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	53,794	26.90

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	16,205	0.000	0.0	0
Total:		16,205			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,492	0.298	131.2	983
200LK202	Black Barrier Coat (200LK202)	37,140	0.300	132.6	4,924
5788C90279	Patch Aid Reducer (5788C90279)	49	0.558	375.4	18
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	0.317	145.2	181
5799B90020	Aztec Black Gelcoat (5799B90020)	28,975	0.316	144.4	4,183
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	0.315	144.2	214
5799L90035	Ca Yellow Gelcoat (5799L90035)	538	0.328	154.4	83
5799R90052	Regal Gelcoat (5799R90052)	4,545	0.319	147.1	668
963LK160	Dark Blue Gelcoat (963LK160)	3,688	0.286	122.1	450
963LK188	Midnight Blue Gelcoat (963LK188)	1,026	0.291	126.1	129
963RK139	Rueben Gelcoat (963RK139)	462	0.287	123.0	57
963RK140	Regal Gelcoat (963RK140)	1,147	0.288	123.7	142
963WH671	White Gelcoat (963WH671)	13,464	0.302	134.0	1,804
963XA221	Marine Clear Gelcoat (963XA221)	2,274	0.447	258.9	589
967BK150	Black Barrier Coat (967BK150)	23,603	0.321	148.8	3,512
991GH359	Polo Green Gelcoat (991GH359)	795	0.328	153.6	122
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>March 2009</b>
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991NH788	Brown Gelcoat (991NH788)	1,081	0.318	146.4	158
991PK105	Black Iris Gelcoat (991PK105)	438	0.312	141.8	62
9EXFB379	Dark Blue Gelcoat (9EXFB379)	616	0.302	133.7	82
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	276	0.307	138.0	38
9EXFB389	CA Yellow Gelcoat (9EXFB389)	200	0.305	136.2	27
9EXFB395	Charcoal Gelcoat (9EXFB395)	111	0.311	140.8	16
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,094	0.308	138.8	291
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	986	0.305	136.6	135
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	995	0.304	135.9	135
MBG05a	Armorcote Platinum Gelcoat (991NK124)	546	0.302	133.7	73
MBG06	Armorcote White Gelcoat (991VH423)	33,140	0.329	154.4	5,118
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	0.306	137.3	131
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	203	0.308	138.8	28
MBG08c	Armorcote Pink Gelcoat (991RK124)	361	0.314	143.2	52

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Total:	173,358	24,901
Weighted Average MACT Model Point Value:	143.6	
Intermediate MACT Model Point Value (lbs):	24,901	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	38,000	0.348	45.1	1,714
MBR02	Resin (LHPC3523)	118,980	0.316	36.2	4,305
MBR02a	Resin (LHPC4121)	361,980	0.316	36.2	13,099
VLER-4000	VE Resin (VLER-4000)	3,700	0.320	37.2	138
VSXH-2200	VE Resin (VSXH-2200)	11,000	0.349	45.3	498
Total:		533,660			19,753
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		19,753			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,199	0.358	178.7	393
Total:		2,199			393
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		393			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	20,500	0.280	27.4	563
Total:		22,420			669
Weighted Average MACT Model Point Value:		29.9			
Intermediate MACT Model Point Value (lbs):		669			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	45,717	22.86

HAP LIMIT - 63.5698, Eq. 1

for 953BK162, April 2007, pigmented gelcoat

$$\text{USE} = (20,573 \text{ lb}) \left( \frac{453.6 \text{ g}}{\text{lb}} \right) \left( \frac{\text{Mega gram}}{10^6 \text{ g}} \right) = \underline{\underline{9.33 \text{ Mg}}}$$

$$\text{LIMIT} = (159)(9.33) = 1483.5 \text{ kg} \quad \text{Eq. 1 of } 63.5698$$

$$\left( 1483.5 \text{ kg} \right) \left( \frac{10^3 \text{ g}}{\text{kg}} \right) \left( \frac{\text{lb}}{453.6 \text{ g}} \right) = 3271 \text{ lb}$$

$$\text{HAP LIMIT} = 3,271 \text{ lb} \quad (1.64 \text{ tons})$$

HAP EMISSIONS - 63.5710, Eq. 1

for 953BK162, April 2007, pigmented gelcoat

MACT POINTS VALUE

$$\text{HAP EMISSIONS} = (PV_{\text{PG}})(M_{\text{PG}})$$

$$PV = 0.445 (\text{Gelcoat HAP \%})^{1.675}$$

$$= 0.445 (41.6)^{1.675} = 229.3 \frac{\text{kg}}{\text{mega gram}} \left( \frac{\text{lb}}{10^3 \text{ kg}} \right)$$

$$M_{\text{PG}} = 9.33 \text{ Mg}$$

$$\text{HAP EMISSIONS} = \left( 229.3 \frac{\text{kg}}{\text{mega gram}} \right) (9.33 \text{ mega grams}) = 2,139.4 \text{ kg}$$

$$\left( 2139.4 \text{ kg} \right) \left( \frac{10^3 \text{ g}}{\text{kg}} \right) \left( \frac{\text{lb}}{453.6 \text{ g}} \right) = 4716.5 \text{ lb} \quad (2.35 \text{ tons})$$

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	25,298	0	0	0.00
Total:		25,298		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	20,573 <i>9.3Mg</i>	159	3,271	1.64 <i>6/110</i>
953LK160	Dark Blue Gelcoat (953LK160)	4,100	159	652	0.33
963LK188	Midnight Blue Gelcoat (963LK188)	1,160	159	184	0.09
963RK139	Rueben Gelcoat (963RK139)	514	159	82	0.04
963RK140	Regal Gelcoat (963RK140)	1,671	159	266	0.13
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,687	159	427	0.21
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	768	159	122	0.06
991NH788	Brown Gelcoat (991NH788)	1,937	159	308	0.15
MBG01	Black Barrier Gelcoat (967BJ244)	82,061	159	13,048	6.52
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,906	159	939	0.47
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,035	159	324	0.16
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,375	159	855	0.43
MBG03	Armorcote Black Gelcoat (991BK139)	1,205	159	192	0.10
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,200	159	350	0.17
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	4,533	159	721	0.36
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	7,114	159	1,131	0.57
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,570	159	1,204	0.60
MBG05a	Armorcote Platinum Gelcoat (991NK124)	3,934	159	626	0.31

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit				12 Months Ending:		April 2007
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	2,518	159	400	0.20	
MBG05c	Armorcote Suede Gelcoat (991NK130)	259	159	41	0.02	
MBG06	Armorcote White Gelcoat (991WH423)	119,014	159	18,923	9.46	
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	8,772	159	1,395	0.70	
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,889	159	459	0.23	
MBG08	Armorcote Ruben Gelcoat (991RK111)	5,322	159	846	0.42	
MBG08a	Armorcote Regal Gelcoat (991RK112)	12,681	159	2,016	1.01	
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	855	159	136	0.07	
MBG08c	Armorcote Pink Gelcoat (991RK124)	809	159	129	0.06	
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09	
MBG0b1	Buffback Black Gelcoat (954BJ232)	53,674	159	8,534	4.27	
Total:		363,711		57,830	28.92	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	73,560	46	3,384	1.69
MBR02	Resin (LHPC3523)	534,240	46	24,575	12.29
MBR02a	Resin (LHPC4121)	706,506	46	32,499	16.25
VLER-4000	VE Resin (VLER-4000)	35,250	46	1,622	0.81
Total:		1,349,556		62,080	31.04

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBG0a	Polycor HG Green Tooling (945GA104)	3,552	214	760	0.38
Total:		3,552		760	0.38

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	30,000	54	1,620	0.81
945B023	Polycor Conductive Tooling (945B023)	1,300	54	70	0.04
Total:		31,300		1,690	0.85

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	<u>122,360</u>	<u>61.18</u>



*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	25,298	0.000	0.0	0
Total:		25,298			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	20,573	0.416	229.0	4,712
953LK160	Dark Blue Gelcoat (953LK160)	4,100	0.362	181.8	745
963LK188	Midnight Blue Gelcoat (963LK188)	1,160	0.291	126.1	146
963RK139	Rueben Gelcoat (963RK139)	514	0.290	125.2	64
963RK140	Regal Gelcoat (963RK140)	1,671	0.288	123.7	207
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,687	0.449	260.3	700
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	768	0.325	151.7	117
991NH788	Brown Gelcoat (991NH788)	1,937	0.318	146.4	284
MBG01	Black Barrier Gelcoat (967BJ244)	82,061	0.318	146.0	11,978
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,906	0.308	138.8	820
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,035	0.320	147.8	301
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,375	0.328	153.7	826
MBG03	Armorcote Black Gelcoat (991BK139)	1,205	0.326	152.5	184
MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30

MSDS  
Table 3  
Pounds  
2.4 7545

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>April 2007</b>
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MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,200	0.305	136.6	301
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	4,533	0.322	149.4	677
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	7,114	0.319	147.0	1,045
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,570	0.304	135.9	1,029
MBG05a	Armorcote Platinum Gelcoat (991NK124)	3,934	0.302	133.7	526
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	2,518	0.310	140.2	353
MBG05c	Armorcote Suede Gelcoat (991NK130)	259	0.300	132.5	34
MBG06	Armorcote White Gelcoat (991WH423)	119,014	0.329	154.4	18,381
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	8,772	0.306	137.3	1,205
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,889	0.306	137.1	396
MBG08	Armorcote Ruben Gelcoat (991RK111)	5,322	0.309	139.7	743
MBG08a	Armorcote Regal Gelcoat (991RK112)	12,681	0.311	140.5	1,781
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	855	0.308	138.8	119
MBG08c	Armorcote Pink Gelcoat (991RK124)	809	0.314	143.2	116
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	53,674	0.416	229.5	12,317
<b>Total:</b>		<b>363,711</b>			<b>60,412</b>
Weighted Average MACT Model Point Value:		166.1			
Intermediate MACT Model Point Value (lbs):		60,412			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	73,560	0.348	45.1	3,317
MBR02	Resin (LHPC3523)	534,240	0.316	36.2	19,332
MBR02a	Resin (LHPC4121)	706,506	0.316	36.2	25,566
VLER-4000	VE Resin (VLER-4000)	35,250	0.320	37.2	1,311
Total:		1,349,556			49,526
Weighted Average MACT Model Point Value:		36.7			
Intermediate MACT Model Point Value (lbs):		49,526			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBG0a	Polycor HG Green Tooling (945GA104)	3,552	0.472	283.7	1,008
Total:		3,552			1,008
Weighted Average MACT Model Point Value:		283.7			
Intermediate MACT Model Point Value (lbs):		1,008			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	30,000	0.300	32.1	963
945B023	Polycor Conductive Tooling (945B023)	1,300	0.469	88.8	115
Total:		31,300			1,079
Weighted Average MACT Model Point Value:		34.5			
Intermediate MACT Model Point Value (lbs):		1,079			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	112,024	56.01

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	30,969	0	0	0.00
Total:		30,969		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	4,490	159	714	0.36
963LK188	Midnight Blue Gelcoat (963LK188)	1,401	159	223	0.11
963RK139	Rueben Gelcoat (963RK139)	665	159	106	0.05
963RK140	Regal Gelcoat (963RK140)	3,415	159	543	0.27
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,087	159	491	0.25
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	916	159	146	0.07
991NH788	Brown Gelcoat (991NH788)	2,343	159	373	0.19
MBG01	Black Barrier Gelcoat (967BJ244)	83,311	159	13,246	6.62
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	6,228	159	990	0.50
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,494	159	397	0.20
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,286	159	840	0.42
MBG03	Armorcote Black Gelcoat (991BK139)	1,106	159	176	0.09
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,555	159	406	0.20
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	4,223	159	671	0.34
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	6,091	159	968	0.48
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,619	159	1,211	0.61
MBG05a	Armorcote Platinum Gelcoat (991NK124)	3,619	159	575	0.29

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit			12 Months Ending:		May 2007
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	2,277	159	362	0.18
MBG05c	Armorcote Suede Gelcoat (991NK130)	259	159	41	0.02
MBG06	Armorcote White Gelcoat (991WH423)	119,154	159	18,945	9.47
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	8,377	159	1,332	0.67
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,792	159	444	0.22
MBG08	Armorcote Ruben Gelcoat (991RK111)	5,175	159	823	0.41
MBG08a	Armorcote Regal Gelcoat (991RK112)	11,714	159	1,863	0.93
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	159	129	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	811	159	129	0.06
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	47,795	159	7,599	3.80
Total:		364,592		57,970	28.99

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	82,680	46	3,803	1.90
MBR02	Resin (LHPC3523)	573,220	46	26,368	13.18
MBR02a	Resin (LHPC4121)	750,586	46	34,527	17.26
VLER-4000	VE Resin (VLER-4000)	37,500	46	1,725	0.86
Total:		1,443,986		66,423	33.21

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBG0a	Polycor HG Green Tooling (945GA104)	3,423	214	733	0.37
Total:		3,423		733	0.37

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	32,090	54	1,733	0.87
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		33,840		1,827	0.91

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	126,953	63.48

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	30,969	0.000	0.0	0
Total:		30,969			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	4,490	0.362	181.8	816
963LK188	Midnight Blue Gelcoat (963LK188)	1,401	0.291	126.1	177
963RK139	Rueben Gelcoat (963RK139)	665	0.290	125.2	83
963RK140	Regal Gelcoat (963RK140)	3,415	0.288	123.7	422
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,087	0.449	260.3	804
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	916	0.325	151.7	139
991NH788	Brown Gelcoat (991NH788)	2,343	0.318	146.4	343
MBG01	Black Barrier Gelcoat (967BJ244)	83,311	0.318	146.0	12,160
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	6,228	0.308	138.8	864
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,494	0.320	147.8	369
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,286	0.328	153.7	812
MBG03	Armorcote Black Gelcoat (991BK139)	1,106	0.326	152.5	169
MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30

Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report				12 Months Ending:	May 2007
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MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,555	0.305	136.6	349
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	4,223	0.322	149.4	631
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	6,091	0.319	147.0	895
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,619	0.304	135.9	1,035
MBG05a	Armorcote Platinum Gelcoat (991NK124)	3,619	0.302	133.7	484
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	2,277	0.310	140.2	319
MBG05c	Armorcote Suede Gelcoat (991NK130)	259	0.300	132.5	34
MBG06	Armorcote White Gelcoat (991WH423)	119,154	0.329	154.4	18,403
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	8,377	0.306	137.3	1,151
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,792	0.306	137.1	383
MBG08	Armorcote Ruben Gelcoat (991RK111)	5,175	0.309	139.7	723
MBG08a	Armorcote Regal Gelcoat (991RK112)	11,714	0.311	140.5	1,645
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	0.308	138.8	113
MBG08c	Armorcote Pink Gelcoat (991RK124)	811	0.314	143.2	116
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	47,795	0.416	229.5	10,968
Total:		364,592			60,440
Weighted Average MACT Model Point Value:		165.8			
Intermediate MACT Model Point Value (lbs):		60,440			



*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	82,680	0.348	45.1	3,729
MBR02	Resin (LHPC3523)	573,220	0.316	36.2	20,743
MBR02a	Resin (LHPC4121)	750,586	0.316	36.2	27,161
VLER-4000	VE Resin (VLER-4000)	37,500	0.320	37.2	1,394
Total:		1,443,986			53,026
Weighted Average MACT Model Point Value:		36.7			
Intermediate MACT Model Point Value (lbs):		53,026			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBG0a	Polycor HG Green Tooling (945GA104)	3,423	0.472	283.7	971
Total:		3,423			971
Weighted Average MACT Model Point Value:		283.7			
Intermediate MACT Model Point Value (lbs):		971			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	32,090	0.300	32.1	1,030
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		33,840			1,186
Weighted Average MACT Model Point Value:		35.0			
Intermediate MACT Model Point Value (lbs):		1,186			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	115,623	57.81

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	34,210	0	0	0.00
Total:		34,210		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	5,961	159	948	0.47
963LK188	Midnight Blue Gelcoat (963LK188)	1,873	159	298	0.15
963RK139	Rueben Gelcoat (963RK139)	1,579	159	251	0.13
963RK140	Regal Gelcoat (963RK140)	4,256	159	677	0.34
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,087	159	491	0.25
967BK150	Black Barrier Coat (967BK150)	12,120	159	1,927	0.96
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,017	159	162	0.08
991NH788	Brown Gelcoat (991NH788)	2,603	159	414	0.21
991PK105	Black Iris Gelcoat (991PK105)	45	159	7	0.00
MBG01	Black Barrier Gelcoat (967BJ244)	75,853	159	12,061	6.03
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	6,182	159	983	0.49
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,494	159	397	0.20
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,028	159	799	0.40
MBG03	Armorcote Black Gelcoat (991BK139)	922	159	147	0.07
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,509	159	399	0.20
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	3,567	159	567	0.28
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	5,237	159	833	0.42

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>			<b>12 Months Ending:</b>		<b>June 2007</b>
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Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,208	159	1,146	0.57
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,883	159	458	0.23
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	159	256	0.13
MBG05c	Armorcote Suede Gelcoat (991NK130)	100	159	16	0.01
MBG06	Armorcote White Gelcoat (991WH423)	118,574	159	18,853	9.43
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,522	159	1,196	0.60
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,592	159	412	0.21
MBG08	Armorcote Ruben Gelcoat (991RK111)	4,254	159	676	0.34
MBG08a	Armorcote Regal Gelcoat (991RK112)	10,444	159	1,661	0.83
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	159	129	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	707	159	112	0.06
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	41,400	159	6,583	3.29
<b>Total:</b>		<b>359,016</b>		<b>57,084</b>	<b>28.54</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	92,280	46	4,245	2.12
MBR02	Resin (LHPC3523)	573,220	46	26,368	13.18
MBR02a	Resin (LHPC4121)	707,260	46	32,534	16.27
VLER-4000	VE Resin (VLER-4000)	39,750	46	1,829	0.91
<b>Total:</b>		<b>1,412,510</b>		<b>64,975</b>	<b>32.49</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	450	214	96	0.05
MBG0a	Polycor HG Green Tooling (945GA104)	3,215	214	688	0.34

Total:	3,665	784	0.39
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*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	34,590	54	1,868	0.93
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		36,340		1,962	0.98

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	124,806	62.40

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	34,210	0.000	0.0	0
Total:		34,210			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	5,961	0.362	181.8	1,084
963LK188	Midnight Blue Gelcoat (963LK188)	1,873	0.291	126.1	236
963RK139	Rueben Gelcoat (963RK139)	1,579	0.287	123.0	194
963RK140	Regal Gelcoat (963RK140)	4,256	0.288	123.7	526
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,087	0.449	260.3	804
967BK150	Black Barrier Coat (967BK150)	12,120	0.321	148.8	1,803
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	1,017	0.325	151.7	154
991NH788	Brown Gelcoat (991NH788)	2,603	0.318	146.4	381
991PK105	Black Iris Gelcoat (991PK105)	45	0.312	141.8	6
MBG01	Black Barrier Gelcoat (967BJ244)	75,853	0.318	146.0	11,072
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	6,182	0.308	138.8	858
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,494	0.320	147.8	369
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,028	0.328	153.7	773
MBG03	Armorcote Black Gelcoat (991BK139)	922	0.326	152.5	141

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>June 2007</b>
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MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,509	0.305	136.6	343
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	3,567	0.322	149.4	533
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	5,237	0.319	147.0	770
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,208	0.304	135.9	979
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,883	0.302	133.7	385
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	0.310	140.2	226
MBG05c	Armorcote Suede Gelcoat (991NK130)	100	0.300	132.5	13
MBG06	Armorcote White Gelcoat (991WH423)	118,574	0.329	154.4	18,313
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,522	0.306	137.3	1,033
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,592	0.306	137.1	355
MBG08	Armorcote Ruben Gelcoat (991RK111)	4,254	0.309	139.7	594
MBG08a	Armorcote Regal Gelcoat (991RK112)	10,444	0.311	140.5	1,467
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	0.308	138.8	113
MBG08c	Armorcote Pink Gelcoat (991RK124)	707	0.314	143.2	101
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	41,400	0.416	229.5	9,500
<b>Total:</b>		<b>359,016</b>			<b>59,160</b>
Weighted Average MACT Model Point Value:		164.8			
Intermediate MACT Model Point Value (lbs):		59,160			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	92,280	0.348	45.1	4,162
MBR02	Resin (LHPC3523)	573,220	0.316	36.2	20,743
MBR02a	Resin (LHPC4121)	707,260	0.316	36.2	25,593
VLER-4000	VE Resin (VLER-4000)	39,750	0.320	37.2	1,478
Total:		1,412,510			51,975
Weighted Average MACT Model Point Value:		36.8			
Intermediate MACT Model Point Value (lbs):		51,975			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	450	0.358	178.7	80
MBG0a	Polycor HG Green Tooling (945GA104)	3,215	0.472	283.7	912
Total:		3,665			992
Weighted Average MACT Model Point Value:		270.8			
Intermediate MACT Model Point Value (lbs):		992			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	34,590	0.280	27.4	949
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		36,340			1,105
Weighted Average MACT Model Point Value:		30.4			
Intermediate MACT Model Point Value (lbs):		1,105			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	113,232	56.62

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	37,451	0	0	0.00
Total:		37,451		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	6,581	159	1,046	0.52
963LK188	Midnight Blue Gelcoat (963LK188)	2,189	159	348	0.17
963RK139	Rueben Gelcoat (963RK139)	1,675	159	266	0.13
963RK140	Regal Gelcoat (963RK140)	5,505	159	875	0.44
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,280	159	522	0.26
967BK150	Black Barrier Coat (967BK150)	14,140	159	2,248	1.12
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,017	159	162	0.08
991NH788	Brown Gelcoat (991NH788)	2,856	159	454	0.23
991PK105	Black Iris Gelcoat (991PK105)	45	159	7	0.00
MBG01	Black Barrier Gelcoat (967BJ244)	71,963	159	11,442	5.72
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,551	159	883	0.44
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,650	159	421	0.21
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,028	159	799	0.40
MBG03	Armorcote Black Gelcoat (991BK139)	922	159	147	0.07
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,512	159	399	0.20
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	3,164	159	503	0.25
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	4,399	159	699	0.35



<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending: July 2007</b>	
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MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,095	159	1,128	0.56
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,991	159	476	0.24
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	159	256	0.13
MBG06	Armorcote White Gelcoat (991WH423)	114,534	159	18,211	9.11
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,126	159	1,133	0.57
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,797	159	445	0.22
MBG08	Armorcote Ruben Gelcoat (991RK111)	4,254	159	676	0.34
MBG08a	Armorcote Regal Gelcoat (991RK112)	9,503	159	1,511	0.76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	159	129	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	707	159	112	0.06
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	36,010	159	5,726	2.86
<b>Total:</b>		<b>347,493</b>		<b>55,251</b>	<b>27.63</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	97,080	46	4,466	2.23
MBR02	Resin (LHPC3523)	573,220	46	26,368	13.18
MBR02a	Resin (LHPC4121)	732,940	46	33,715	16.86
VLER-4000	VE Resin (VLER-4000)	41,550	46	1,911	0.96
<b>Total:</b>		<b>1,444,790</b>		<b>66,460</b>	<b>33.23</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	450	214	96	0.05
MBG0a	Polycor HG Green Tooling (945GA104)	2,000	214	428	0.21

Total:	2,450	524	0.26
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*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	36,090	54	1,949	0.97
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		37,840		2,043	1.02

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	124,279	62.14

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	37,451	0.000	0.0	0
Total:		37,451			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	6,581	0.362	181.8	1,197
963LK188	Midnight Blue Gelcoat (963LK188)	2,189	0.291	126.1	276
963RK139	Rueben Gelcoat (963RK139)	1,675	0.287	123.0	206
963RK140	Regal Gelcoat (963RK140)	5,505	0.288	123.7	681
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,280	0.449	260.3	854
967BK150	Black Barrier Coat (967BK150)	14,140	0.321	148.8	2,104
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	1,017	0.325	151.7	154
991NH788	Brown Gelcoat (991NH788)	2,856	0.318	146.4	418
991PK105	Black Iris Gelcoat (991PK105)	45	0.312	141.8	6
MBG01	Black Barrier Gelcoat (967BJ244)	71,963	0.318	146.0	10,504
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,551	0.308	138.8	770
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,650	0.320	147.8	392
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	5,028	0.328	153.7	773
MBG03	Armorcote Black Gelcoat (991BK139)	922	0.326	152.5	141

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>July 2007</b>
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MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,512	0.305	136.6	343
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	3,164	0.322	149.4	473
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	4,399	0.319	147.0	646
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	7,095	0.304	135.9	964
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,991	0.302	133.7	400
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	0.310	140.2	226
MBG06	Armorcote White Gelcoat (991WH423)	114,534	0.329	154.4	17,689
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,126	0.306	137.3	979
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,797	0.306	137.1	383
MBG08	Armorcote Ruben Gelcoat (991RK111)	4,254	0.309	139.7	594
MBG08a	Armorcote Regal Gelcoat (991RK112)	9,503	0.311	140.5	1,335
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	0.308	138.8	113
MBG08c	Armorcote Pink Gelcoat (991RK124)	707	0.314	143.2	101
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	36,010	0.416	229.5	8,264
<b>Total:</b>		<b>347,493</b>			<b>57,018</b>
Weighted Average MACT Model Point Value:		164.1			
Intermediate MACT Model Point Value (lbs):		57,018			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	97,080	0.348	45.1	4,378
MBR02	Resin (LHPC3523)	573,220	0.316	36.2	20,743
MBR02a	Resin (LHPC4121)	732,940	0.316	36.2	26,522
VLER-4000	VE Resin (VLER-4000)	41,550	0.320	37.2	1,545
Total:		1,444,790			53,188
Weighted Average MACT Model Point Value:		36.8			
Intermediate MACT Model Point Value (lbs):		53,188			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	450	0.358	178.7	80
MBG0a	Polycor HG Green Tooling (945GA104)	2,000	0.472	283.7	567
Total:		2,450			648
Weighted Average MACT Model Point Value:		264.4			
Intermediate MACT Model Point Value (lbs):		648			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	36,090	0.280	27.4	990
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		37,840			1,146
Weighted Average MACT Model Point Value:		30.3			
Intermediate MACT Model Point Value (lbs):		1,146			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	112,000	56.00

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	40,692	0	0	0.00
Total:		40,692		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	7,109	159	1,130	0.57
963LK188	Midnight Blue Gelcoat (963LK188)	2,757	159	438	0.22
963RK139	Rueben Gelcoat (963RK139)	1,675	159	266	0.13
963RK140	Regal Gelcoat (963RK140)	6,755	159	1,074	0.54
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,933	159	466	0.23
967BK150	Black Barrier Coat (967BK150)	16,160	159	2,569	1.28
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,114	159	177	0.09
991NH788	Brown Gelcoat (991NH788)	3,061	159	487	0.24
991PK105	Black Iris Gelcoat (991PK105)	45	159	7	0.00
MBG01	Black Barrier Gelcoat (967BJ244)	65,903	159	10,479	5.24
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,611	159	892	0.45
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,617	159	416	0.21
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,885	159	777	0.39
MBG03	Armorcote Black Gelcoat (991BK139)	779	159	124	0.06
MBG03a	Armorcote Black Gelcoat (991BK136)	195	159	31	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,360	159	375	0.19
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,958	159	470	0.24
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	3,779	159	601	0.30

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending:</b>	<b>August 2007</b>
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MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,671	159	1,061	0.53
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,729	159	434	0.22
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	159	256	0.13
MBG06	Armorcote White Gelcoat (991WH423)	115,694	159	18,395	9.20
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,077	159	1,125	0.56
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,495	159	397	0.20
MBG08	Armorcote Ruben Gelcoat (991RK111)	3,529	159	561	0.28
MBG08a	Armorcote Regal Gelcoat (991RK112)	8,533	159	1,357	0.68
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	159	129	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	608	159	97	0.05
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	32,090	159	5,102	2.55
<b>Total:</b>		<b>338,926</b>		<b>53,889</b>	<b>26.94</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	105,720	46	4,863	2.43
MBR02	Resin (LHPC3523)	573,220	46	26,368	13.18
MBR02a	Resin (LHPC4121)	685,100	46	31,515	15.76
VLER-4000	VE Resin (VLER-4000)	39,300	46	1,808	0.90
<b>Total:</b>		<b>1,403,340</b>		<b>64,554</b>	<b>32.28</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	450	214	96	0.05
MBG0a	Polycor HG Green Tooling (945GA104)	2,000	214	428	0.21

Total:	2,450	524	0.26
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*Tooling Resin, Non-Atomized*

				Intermediate HAP Limit	
Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
1055	Tooling Resin (1055)	34,590	54	1,868	0.93
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		36,340		1,962	0.98

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	120,930	60.46



*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	40,692	0.000	0.0	0
Total:		40,692			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	7,109	0.362	181.8	1,293
963LK188	Midnight Blue Gelcoat (963LK188)	2,757	0.291	126.1	348
963RK139	Rueben Gelcoat (963RK139)	1,675	0.287	123.0	206
963RK140	Regal Gelcoat (963RK140)	6,755	0.288	123.7	836
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,933	0.449	260.3	764
967BK150	Black Barrier Coat (967BK150)	16,160	0.321	148.8	2,404
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	1,114	0.325	151.7	169
991NH788	Brown Gelcoat (991NH788)	3,061	0.318	146.4	448
991PK105	Black Iris Gelcoat (991PK105)	45	0.312	141.8	6
MBG01	Black Barrier Gelcoat (967BJ244)	65,903	0.318	146.0	9,619
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,611	0.308	138.8	779
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,617	0.320	147.8	387
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,885	0.328	153.7	751
MBG03	Armorcote Black Gelcoat (991BK139)	779	0.326	152.5	119

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>August 2007</b>
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MBG03a	Armorcote Black Gelcoat (991BK136)	195	0.325	152.0	30
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,360	0.305	136.6	322
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,958	0.322	149.4	442
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	3,779	0.319	147.0	555
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,671	0.304	135.9	906
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,729	0.302	133.7	365
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	0.310	140.2	226
MBG06	Armorcote White Gelcoat (991WH423)	115,694	0.329	154.4	17,869
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	7,077	0.306	137.3	972
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,495	0.306	137.1	342
MBG08	Armorcote Ruben Gelcoat (991RK111)	3,529	0.309	139.7	493
MBG08a	Armorcote Regal Gelcoat (991RK112)	8,533	0.311	140.5	1,199
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	811	0.308	138.8	113
MBG08c	Armorcote Pink Gelcoat (991RK124)	608	0.314	143.2	87
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	32,090	0.416	229.5	7,364
Total:		338,926			55,415
Weighted Average MACT Model Point Value:		163.5			
Intermediate MACT Model Point Value (lbs):		55,415			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	105,720	0.348	45.1	4,768
MBR02	Resin (LHPC3523)	573,220	0.316	36.2	20,743
MBR02a	Resin (LHPC4121)	685,100	0.316	36.2	24,791
VLER-4000	VE Resin (VLER-4000)	39,300	0.320	37.2	1,461
Total:		1,403,340			51,763
Weighted Average MACT Model Point Value:		36.9			
Intermediate MACT Model Point Value (lbs):		51,763			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	450	0.358	178.7	80
MBG0a	Polycor HG Green Tooling (945GA104)	2,000	0.472	283.7	567
Total:		2,450			648
Weighted Average MACT Model Point Value:		264.4			
Intermediate MACT Model Point Value (lbs):		648			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	34,590	0.280	27.4	949
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		36,340			1,105
Weighted Average MACT Model Point Value:		30.4			
Intermediate MACT Model Point Value (lbs):		1,105			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	108,930	54.47

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	41,713	0	0	0.00
Total:		41,713		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	8,198	159	1,303	0.65
963LK188	Midnight Blue Gelcoat (963LK188)	3,276	159	521	0.26
963RK139	Rueben Gelcoat (963RK139)	1,775	159	282	0.14
963RK140	Regal Gelcoat (963RK140)	7,645	159	1,216	0.61
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,133	159	498	0.25
967BK150	Black Barrier Coat (967BK150)	24,240	159	3,854	1.93
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,928	159	307	0.15
991NH788	Brown Gelcoat (991NH788)	3,562	159	566	0.28
991PK105	Black Iris Gelcoat (991PK105)	92	159	15	0.01
MBG01	Black Barrier Gelcoat (967BJ244)	56,860	159	9,041	4.52
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,718	159	909	0.45
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,894	159	460	0.23
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,576	159	728	0.36
MBG03	Armorcote Black Gelcoat (991BK139)	470	159	75	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,411	159	383	0.19
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,701	159	429	0.21
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	3,025	159	481	0.24
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,458	159	1,027	0.51

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending September 2007</b>		
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MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,732	159	434	0.22
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	159	256	0.13
MBG06	Armorcote White Gelcoat (991WH423)	116,274	159	18,488	9.24
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,577	159	1,046	0.52
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,950	159	469	0.23
MBG08	Armorcote Ruben Gelcoat (991RK111)	2,804	159	446	0.22
MBG08a	Armorcote Regal Gelcoat (991RK112)	7,926	159	1,260	0.63
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	500	159	79	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	519	159	83	0.04
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	27,190	159	4,323	2.16
<b>Total:</b>		<b>334,427</b>		<b>53,174</b>	<b>26.59</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	106,200	46	4,885	2.44
MBR02	Resin (LHPC3523)	613,480	46	28,220	14.11
MBR02a	Resin (LHPC4121)	644,000	46	29,624	14.81
VLER-4000	VE Resin (VLER-4000)	38,850	46	1,787	0.89
<b>Total:</b>		<b>1,402,530</b>		<b>64,516</b>	<b>32.26</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	919	214	197	0.10
MBG0a	Polycor HG Green Tooling (945GA104)	1,550	214	332	0.17
<b>Total:</b>		<b>2,469</b>		<b>528</b>	<b>0.26</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	36,090	54	1,949	0.97
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		37,840		2,043	1.02

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	120,262	60.13

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	41,713	0.000	0.0	0
Total:		41,713			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	8,198	0.362	181.8	1,491
963LK188	Midnight Blue Gelcoat (963LK188)	3,276	0.291	126.1	413
963RK139	Rueben Gelcoat (963RK139)	1,775	0.287	123.0	218
963RK140	Regal Gelcoat (963RK140)	7,645	0.288	123.7	946
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,133	0.449	260.3	816
967BK150	Black Barrier Coat (967BK150)	24,240	0.321	148.8	3,607
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	1,928	0.325	151.7	292
991NH788	Brown Gelcoat (991NH788)	3,562	0.318	146.4	522
991PK105	Black Iris Gelcoat (991PK105)	92	0.312	141.8	13
MBG01	Black Barrier Gelcoat (967BJ244)	56,860	0.318	146.0	8,299
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,718	0.308	138.8	794
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,894	0.320	147.8	428
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,576	0.328	153.7	703
MBG03	Armorcote Black Gelcoat (991BK139)	470	0.326	152.5	72

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: September 2007</b>	
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MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,411	0.305	136.6	329
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,701	0.322	149.4	403
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	3,025	0.319	147.0	445
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,458	0.304	135.9	877
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,732	0.302	133.7	365
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	1,610	0.310	140.2	226
MBG06	Armorcote White Gelcoat (991WH423)	116,274	0.329	154.4	17,958
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,577	0.306	137.3	903
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,950	0.306	137.1	404
MBG08	Armorcote Ruben Gelcoat (991RK111)	2,804	0.309	139.7	392
MBG08a	Armorcote Regal Gelcoat (991RK112)	7,926	0.311	140.5	1,113
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	500	0.308	138.8	69
MBG08c	Armorcote Pink Gelcoat (991RK124)	519	0.314	143.2	74
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	27,190	0.416	229.5	6,240
<b>Total:</b>		<b>334,427</b>			<b>54,416</b>
Weighted Average MACT Model Point Value:		162.7			
Intermediate MACT Model Point Value (lbs):		54,416			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	106,200	0.348	45.1	4,789



**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: September 2007**

MBR02	Resin (LHPC3523)	613,480	0.316	36.2	22,199
MBR02a	Resin (LHPC4121)	644,000	0.316	36.2	23,304
VLER-4000	VE Resin (VLER-4000)	38,850	0.320	37.2	1,445
Total:		1,402,530			51,737
Weighted Average MACT Model Point Value:		36.9			
Intermediate MACT Model Point Value (lbs):		51,737			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	919	0.358	178.7	164
MBG0a	Polycor HG Green Tooling (945GA104)	1,550	0.472	283.7	440
Total:		2,469			604
Weighted Average MACT Model Point Value:		244.6			
Intermediate MACT Model Point Value (lbs):		604			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	36,090	0.280	27.4	990
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		37,840			1,146
Weighted Average MACT Model Point Value:		30.3			
Intermediate MACT Model Point Value (lbs):		1,146			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	107,903	53.95

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	44,353	0	0	0.00
Total:		44,353		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	9,618	159	1,529	0.76
963LK188	Midnight Blue Gelcoat (963LK188)	3,912	159	622	0.31
963RK139	Rueben Gelcoat (963RK139)	2,175	159	346	0.17
963RK140	Regal Gelcoat (963RK140)	9,219	159	1,466	0.73
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,133	159	498	0.25
967BK150	Black Barrier Coat (967BK150)	32,320	159	5,139	2.57
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	2,423	159	385	0.19
991NH788	Brown Gelcoat (991NH788)	3,562	159	566	0.28
991PK105	Black Iris Gelcoat (991PK105)	285	159	45	0.02
MBG01	Black Barrier Gelcoat (967BJ244)	51,305	159	8,157	4.08
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,248	159	834	0.42
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,792	159	444	0.22
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,266	159	678	0.34
MBG03	Armorcote Black Gelcoat (991BK139)	470	159	75	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,414	159	384	0.19
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,237	159	356	0.18
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	1,360	159	216	0.11
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,407	159	1,019	0.51

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: October 2007</b>
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,411	159	383	0.19
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	159	0	0.00
MBG06	Armorcote White Gelcoat (991WH423)	113,954	159	18,119	9.06
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,679	159	1,062	0.53
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,902	159	461	0.23
MBG08	Armorcote Ruben Gelcoat (991RK111)	2,703	159	430	0.21
MBG08a	Armorcote Regal Gelcoat (991RK112)	5,931	159	943	0.47
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	553	159	88	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	519	159	83	0.04
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	19,350	159	3,077	1.54
<b>Total:</b>		<b>324,531</b>		<b>51,600</b>	<b>25.80</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	107,520	46	4,946	2.47
MBR02	Resin (LHPC3523)	573,160	46	26,365	13.18
MBR02a	Resin (LHPC4121)	683,120	46	31,424	15.71
VLER-4000	VE Resin (VLER-4000)	35,700	46	1,642	0.82
VSXH-2200	VE Resin (VSXH-2200)	1,000	46	46	0.02
<b>Total:</b>		<b>1,400,500</b>		<b>64,423</b>	<b>32.21</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	919	214	197	0.10
MBG0a	Polycor HG Green Tooling (945GA104)	1,145	214	245	0.12
<b>Total:</b>		<b>2,064</b>		<b>442</b>	<b>0.22</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	31,590	54	1,706	0.85
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		33,340		1,800	0.90

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	118,265	59.13

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	44,353	0.000	0.0	0
Total:		44,353			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	9,618	0.362	181.8	1,749
963LK188	Midnight Blue Gelcoat (963LK188)	3,912	0.291	126.1	493
963RK139	Rueben Gelcoat (963RK139)	2,175	0.287	123.0	268
963RK140	Regal Gelcoat (963RK140)	9,219	0.288	123.7	1,140
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,133	0.449	260.3	816
967BK150	Black Barrier Coat (967BK150)	32,320	0.321	148.8	4,809
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	2,423	0.325	151.7	368
991NH788	Brown Gelcoat (991NH788)	3,562	0.318	146.4	522
991PK105	Black Iris Gelcoat (991PK105)	285	0.312	141.8	40
MBG01	Black Barrier Gelcoat (967BJ244)	51,305	0.318	146.0	7,489
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,248	0.308	138.8	728
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,792	0.320	147.8	413
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	4,266	0.328	153.7	656
MBG03	Armorcote Black Gelcoat (991BK139)	470	0.326	152.5	72

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>October 2007</b>
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MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,414	0.305	136.6	330
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	2,237	0.322	149.4	334
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	1,360	0.319	147.0	200
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,407	0.304	135.9	871
MBG05a	Armorcote Platinum Gelcoat (991NK124)	2,411	0.302	133.7	322
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	0.310	140.2	0
MBG06	Armorcote White Gelcoat (991WH423)	113,954	0.329	154.4	17,600
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,679	0.306	137.3	917
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,902	0.306	137.1	398
MBG08	Armorcote Ruben Gelcoat (991RK111)	2,703	0.309	139.7	378
MBG08a	Armorcote Regal Gelcoat (991RK112)	5,931	0.311	140.5	833
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	553	0.308	138.8	77
MBG08c	Armorcote Pink Gelcoat (991RK124)	519	0.314	143.2	74
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	19,350	0.416	229.5	4,440
Total:		324,531			52,338
Weighted Average MACT Model Point Value:		161.3			
Intermediate MACT Model Point Value (lbs):		52,338			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	107,520	0.348	45.1	4,849

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>October 2007</b>
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MBR02	Resin (LHPC3523)	573,160	0.316	36.2	20,740
MBR02a	Resin (LHPC4121)	683,120	0.316	36.2	24,719
VLER-4000	VE Resin (VLER-4000)	35,700	0.320	37.2	1,327
VSXH-2200	VE Resin (VSXH-2200)	1,000	0.349	45.3	45

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Total:		1,400,500			51,681
Weighted Average MACT Model Point Value:		36.9			
Intermediate MACT Model Point Value (lbs):		51,681			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	919	0.358	178.7	164
MBG0a	Polycor HG Green Tooling (945GA104)	1,145	0.472	283.7	325

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Total:		2,064			489
Weighted Average MACT Model Point Value:		236.9			
Intermediate MACT Model Point Value (lbs):		489			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	31,590	0.280	27.4	867
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155

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Total:		33,340			1,022
Weighted Average MACT Model Point Value:		30.7			
Intermediate MACT Model Point Value (lbs):		1,022			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	105,531	52.77

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	46,994	0	0	0.00
Total:		46,994		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	9,773	159	1,554	0.78
963LK188	Midnight Blue Gelcoat (963LK188)	4,071	159	647	0.32
963RK139	Rueben Gelcoat (963RK139)	2,476	159	394	0.20
963RK140	Regal Gelcoat (963RK140)	10,170	159	1,617	0.81
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,613	159	574	0.29
967BK150	Black Barrier Coat (967BK150)	40,400	159	6,424	3.21
991GH359	Polo Green Gelcoat (991GH359)	259	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	2,670	159	425	0.21
991NH788	Brown Gelcoat (991NH788)	3,919	159	623	0.31
991PK105	Black Iris Gelcoat (991PK105)	285	159	45	0.02
MBG01	Black Barrier Gelcoat (967BJ244)	45,245	159	7,194	3.60
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,355	159	851	0.43
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,688	159	427	0.21
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,666	159	583	0.29
MBG03	Armorcote Black Gelcoat (991BK139)	470	159	75	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,364	159	376	0.19
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	1,605	159	255	0.13
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	778	159	124	0.06
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	5,838	159	928	0.46



<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending November 2007</b>
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,724	159	274	0.14
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	159	0	0.00
MBG06	Armorcote White Gelcoat (991WH423)	109,891	159	17,473	8.74
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,481	159	1,030	0.52
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,902	159	461	0.23
MBG08	Armorcote Ruben Gelcoat (991RK111)	1,940	159	308	0.15
MBG08a	Armorcote Regal Gelcoat (991RK112)	4,565	159	726	0.36
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	605	159	96	0.05
MBG08c	Armorcote Pink Gelcoat (991RK124)	205	159	33	0.02
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	14,450	159	2,298	1.15
<b>Total:</b>		<b>314,532</b>		<b>50,011</b>	<b>25.01</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	108,480	46	4,990	2.50
MBR02	Resin (LHPC3523)	573,160	46	26,365	13.18
MBR02a	Resin (LHPC4121)	642,780	46	29,568	14.78
VLER-4000	VE Resin (VLER-4000)	31,650	46	1,456	0.73
VSXH-2200	VE Resin (VSXH-2200)	5,000	46	230	0.12
<b>Total:</b>		<b>1,361,070</b>		<b>62,609</b>	<b>31.30</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,368	214	293	0.15
MBG0a	Polycor HG Green Tooling (945GA104)	695	214	149	0.07
<b>Total:</b>		<b>2,063</b>		<b>441</b>	<b>0.22</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	31,090	54	1,679	0.84
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		32,840		1,773	0.89

NESHAP HAP Limit:      Pounds      Tons  
 114,835      57.42

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	46,994	0.000	0.0	0
Total:		46,994			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	9,773	0.362	181.8	1,777
963LK188	Midnight Blue Gelcoat (963LK188)	4,071	0.291	126.1	513
963RK139	Rueben Gelcoat (963RK139)	2,476	0.287	123.0	305
963RK140	Regal Gelcoat (963RK140)	10,170	0.288	123.7	1,258
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,613	0.449	260.3	941
967BK150	Black Barrier Coat (967BK150)	40,400	0.321	148.8	6,011
991GH359	Polo Green Gelcoat (991GH359)	259	0.328	153.6	40
991GH369	Brite Green Gelcoat (991GH369)	2,670	0.325	151.7	405
991NH788	Brown Gelcoat (991NH788)	3,919	0.318	146.4	574
991PK105	Black Iris Gelcoat (991PK105)	285	0.312	141.8	40
MBG01	Black Barrier Gelcoat (967BJ244)	45,245	0.318	146.0	6,604
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,355	0.308	138.8	743
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,688	0.320	147.8	397
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,666	0.328	153.7	563
MBG03	Armorcote Black Gelcoat (991BK139)	470	0.326	152.5	72

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending: November 2007**

MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,364	0.305	136.6	323
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	1,605	0.322	149.4	240
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	778	0.319	147.0	114
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	5,838	0.304	135.9	793
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,724	0.302	133.7	231
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	0.310	140.2	0
MBG06	Armorcote White Gelcoat (991WH423)	109,891	0.329	154.4	16,972
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,481	0.306	137.3	890
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,902	0.306	137.1	398
MBG08	Armorcote Ruben Gelcoat (991RK111)	1,940	0.309	139.7	271
MBG08a	Armorcote Regal Gelcoat (991RK112)	4,565	0.311	140.5	641
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	605	0.308	138.8	84
MBG08c	Armorcote Pink Gelcoat (991RK124)	205	0.314	143.2	29
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	14,450	0.416	229.5	3,316
<b>Total:</b>		<b>314,532</b>			<b>50,509</b>
Weighted Average MACT Model Point Value:		160.6			
Intermediate MACT Model Point Value (lbs):		50,509			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	108,480	0.348	45.1	4,892

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: November 2007**

MBR02	Resin (LHPC3523)	573,160	0.316	36.2	20,740
MBR02a	Resin (LHPC4121)	642,780	0.316	36.2	23,260
VLER-4000	VE Resin (VLER-4000)	31,650	0.320	37.2	1,177
VSXH-2200	VE Resin (VSXH-2200)	5,000	0.349	45.3	226
<b>Total:</b>		<b>1,361,070</b>			<b>50,295</b>
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		50,295			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,368	0.358	178.7	244
MBG0a	Polycor HG Green Tooling (945GA104)	695	0.472	283.7	197
<b>Total:</b>		<b>2,063</b>			<b>442</b>
Weighted Average MACT Model Point Value:		214.0			
Intermediate MACT Model Point Value (lbs):		442			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	31,090	0.280	27.4	853
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
<b>Total:</b>		<b>32,840</b>			<b>1,009</b>
Weighted Average MACT Model Point Value:		30.7			
Intermediate MACT Model Point Value (lbs):		1,009			

Final MACT Model Point Value:

Pounds

102,255

Tons

51.13

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	46,184	0	0	0.00
Total:		46,184		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100RH540	Regal Gelcoat (100RH540)	568	159	90	0.05
100YH895	California Yellow Gelcoat (100YH895)	693	159	110	0.06
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	10,088	159	1,604	0.80
963LK188	Midnight Blue Gelcoat (963LK188)	4,071	159	647	0.32
963RK139	Rueben Gelcoat (963RK139)	2,680	159	426	0.21
963RK140	Regal Gelcoat (963RK140)	10,584	159	1,683	0.84
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,983	159	633	0.32
967BK150	Black Barrier Coat (967BK150)	44,440	159	7,066	3.53
991GH359	Polo Green Gelcoat (991GH359)	357	159	57	0.03
991GH369	Brite Green Gelcoat (991GH369)	2,564	159	408	0.20
991NH788	Brown Gelcoat (991NH788)	3,907	159	621	0.31
991PK105	Black Iris Gelcoat (991PK105)	285	159	45	0.02
MBG01	Black Barrier Gelcoat (967BJ244)	39,855	159	6,337	3.17
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,509	159	876	0.44
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,526	159	402	0.20
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,359	159	534	0.27
MBG03	Armorcote Black Gelcoat (991BK139)	293	159	47	0.02
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,263	159	360	0.18
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	987	159	157	0.08
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending December 2007</b>		
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MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,148	159	978	0.49
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,421	159	226	0.11
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	159	0	0.00
MBG06	Armorcote White Gelcoat (991WH423)	107,904	159	17,157	8.58
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,224	159	990	0.49
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,694	159	428	0.21
MBG08	Armorcote Ruben Gelcoat (991RK111)	1,627	159	259	0.13
MBG08a	Armorcote Regal Gelcoat (991RK112)	3,838	159	610	0.31
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	650	159	103	0.05
MBG08c	Armorcote Pink Gelcoat (991RK124)	205	159	33	0.02
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	159	178	0.09
MBG0b1	Buffback Black Gelcoat (954BJ232)	6,380	159	1,014	0.51
<b>Total:</b>		<b>302,333</b>		<b>48,071</b>	<b>24.04</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	105,120	46	4,836	2.42
MBR02	Resin (LHPC3523)	519,700	46	23,906	11.95
MBR02a	Resin (LHPC4121)	642,780	46	29,568	14.78
VLER-4000	VE Resin (VLER-4000)	27,450	46	1,263	0.63
VSXH-2200	VE Resin (VSXH-2200)	5,000	46	230	0.12
<b>Total:</b>		<b>1,300,050</b>		<b>59,802</b>	<b>29.90</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,368	214	293	0.15
MBG0a	Polycor HG Green Tooling (945GA104)	445	214	95	0.05

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending December 2007</b>
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Total:	1,813	388	0.19
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*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit Pounds	Tons
1055	Tooling Resin (1055)	28,590	54	1,544	0.77
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		30,340		1,638	0.82

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	109,900	54.95



*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	46,184	0.000	0.0	0
Total:		46,184			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100RH540	Regal Gelcoat (100RH540)	568	0.320	147.6	84
100YH895	California Yellow Gelcoat (100YH895)	693	0.323	150.3	104
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	10,088	0.362	181.8	1,834
963LK188	Midnight Blue Gelcoat (963LK188)	4,071	0.291	126.1	513
963RK139	Rueben Gelcoat (963RK139)	2,680	0.287	123.0	330
963RK140	Regal Gelcoat (963RK140)	10,584	0.288	123.7	1,309
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,983	0.449	260.3	1,037
967BK150	Black Barrier Coat (967BK150)	44,440	0.321	148.8	6,612
991GH359	Polo Green Gelcoat (991GH359)	357	0.328	153.6	55
991GH369	Brite Green Gelcoat (991GH369)	2,564	0.325	151.7	389
991NH788	Brown Gelcoat (991NH788)	3,907	0.318	146.4	572
991PK105	Black Iris Gelcoat (991PK105)	285	0.312	141.8	40
MBG01	Black Barrier Gelcoat (967BJ244)	39,855	0.318	146.0	5,817
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,509	0.308	138.8	765
MBG02a	Armorcote Marble Gelcoat (991AK139)	2,526	0.320	147.8	373

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: December 2007**

MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,359	0.328	153.7	516
MBG03	Armorcote Black Gelcoat (991BK139)	293	0.326	152.5	45
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,263	0.305	136.6	309
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	987	0.322	149.4	147
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	6,148	0.304	135.9	835
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,421	0.302	133.7	190
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	0.310	140.2	0
MBG06	Armorcote White Gelcoat (991WH423)	107,904	0.329	154.4	16,665
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,224	0.306	137.3	855
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,694	0.306	137.1	369
MBG08	Armorcote Ruben Gelcoat (991RK111)	1,627	0.309	139.7	227
MBG08a	Armorcote Regal Gelcoat (991RK112)	3,838	0.311	140.5	539
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	650	0.308	138.8	90
MBG08c	Armorcote Pink Gelcoat (991RK124)	205	0.314	143.2	29
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	1,121	0.396	211.5	237
MBG0b1	Buffback Black Gelcoat (954BJ232)	6,380	0.416	229.5	1,464
<b>Total:</b>		<b>302,333</b>			<b>48,097</b>
Weighted Average MACT Model Point Value:		159.1			
Intermediate MACT Model Point Value (lbs):		48,097			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	105,120	0.348	45.1	4,741
MBR02	Resin (LHPC3523)	519,700	0.316	36.2	18,806
MBR02a	Resin (LHPC4121)	642,780	0.316	36.2	23,260
VLER-4000	VE Resin (VLER-4000)	27,450	0.320	37.2	1,021
VSXH-2200	VE Resin (VSXH-2200)	5,000	0.349	45.3	226
Total:		1,300,050			48,053
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		48,053			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,368	0.358	178.7	244
MBG0a	Polycor HG Green Tooling (945GA104)	445	0.472	283.7	126
Total:		1,813			371
Weighted Average MACT Model Point Value:		204.4			
Intermediate MACT Model Point Value (lbs):		371			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	28,590	0.280	27.4	785
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		30,340			940
Weighted Average MACT Model Point Value:		31.0			
Intermediate MACT Model Point Value (lbs):		940			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	97,461	48.73

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	49,055	0	0	0.00
Total:		49,055		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	1,410	159	224	0.11
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
953BK162	Black Gelcoat (953BK162)	25,003	159	3,975	1.99
953LK160	Dark Blue Gelcoat (953LK160)	10,088	159	1,604	0.80
963LK160	Dark Blue Gelcoat (963LK160)	783	159	124	0.06
963LK188	Midnight Blue Gelcoat (963LK188)	4,849	159	771	0.39
963RK139	Rueben Gelcoat (963RK139)	2,924	159	465	0.23
963RK140	Regal Gelcoat (963RK140)	12,698	159	2,019	1.01
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,456	159	550	0.27
963XA221	Marine Clear Gelcoat (963XA221)	160	159	25	0.01
967BK150	Black Barrier Coat (967BK150)	56,560	159	8,993	4.50
991GH359	Polo Green Gelcoat (991GH359)	357	159	57	0.03
991GH369	Brite Green Gelcoat (991GH369)	2,057	159	327	0.16
991NH788	Brown Gelcoat (991NH788)	3,283	159	522	0.26
991PK105	Black Iris Gelcoat (991PK105)	285	159	45	0.02
MBG01	Black Barrier Gelcoat (967BJ244)	31,775	159	5,052	2.53
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,233	159	832	0.42
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,917	159	305	0.15
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,462	159	550	0.28
MBG03	Armorcote Black Gelcoat (991BK139)	93	159	15	0.01
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,159	159	343	0.17

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending: January 2008</b>	
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MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	514	159	82	0.04
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	5,022	159	798	0.40
MBG05a	Armorcote Platinum Gelcoat (991NK124)	965	159	153	0.08
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	159	0	0.00
MBG06	Armorcote White Gelcoat (991WH423)	103,290	159	16,423	8.21
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,159	159	979	0.49
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,145	159	341	0.17
MBG08	Armorcote Ruben Gelcoat (991RK111)	825	159	131	0.07
MBG08a	Armorcote Regal Gelcoat (991RK112)	3,367	159	535	0.27
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	490	159	78	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	103	159	16	0.01
<b>Total:</b>		<b>294,163</b>		<b>46,772</b>	<b>23.39</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	108,080	46	4,972	2.49
MBR02	Resin (LHPC3523)	561,980	46	25,851	12.93
MBR02a	Resin (LHPC4121)	642,780	46	29,568	14.78
VLER-4000	VE Resin (VLER-4000)	23,850	46	1,097	0.55
VSXH-2200	VE Resin (VSXH-2200)	6,000	46	276	0.14
<b>Total:</b>		<b>1,342,690</b>		<b>61,764</b>	<b>30.88</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,773	214	379	0.19
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: January 2008</b>
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Total:	1,818	389	0.19
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*Tooling Resin, Non-Atomized*

				Intermediate HAP Limit	
Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
1055	Tooling Resin (1055)	24,190	54	1,306	0.65
945B023	Polycor Conductive Tooling (945B023)	1,750	54	95	0.05
Total:		25,940		1,401	0.70

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	110,325	55.16

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	49,055	0.000	0.0	0
Total:		49,055			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	1,410	0.298	131.2	185
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
953BK162	Black Gelcoat (953BK162)	25,003	0.416	229.0	5,726
953LK160	Dark Blue Gelcoat (953LK160)	10,088	0.362	181.8	1,834
963LK160	Dark Blue Gelcoat (963LK160)	783	0.286	122.1	96
963LK188	Midnight Blue Gelcoat (963LK188)	4,849	0.291	126.1	612
963RK139	Rueben Gelcoat (963RK139)	2,924	0.287	123.0	360
963RK140	Regal Gelcoat (963RK140)	12,698	0.288	123.7	1,571
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,456	0.449	260.3	900
963XA221	Marine Clear Gelcoat (963XA221)	160	0.447	258.9	41
967BK150	Black Barrier Coat (967BK150)	56,560	0.321	148.8	8,416
991GH359	Polo Green Gelcoat (991GH359)	357	0.328	153.6	55
991GH369	Brite Green Gelcoat (991GH369)	2,057	0.325	151.7	312
991NH788	Brown Gelcoat (991NH788)	3,283	0.318	146.4	481
991PK105	Black Iris Gelcoat (991PK105)	285	0.312	141.8	40
MBG01	Black Barrier Gelcoat (967BJ244)	31,775	0.318	146.0	4,638

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>January 2008</b>
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MBG02	Armorcote Moonbeam Gelcoat (991AK138)	5,233	0.308	138.8	726
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,917	0.320	147.8	283
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,462	0.328	153.7	532
MBG03	Armorcote Black Gelcoat (991BK139)	93	0.326	152.5	14
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	2,159	0.305	136.6	295
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	514	0.322	149.4	77
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	5,022	0.304	135.9	682
MBG05a	Armorcote Platinum Gelcoat (991NK124)	965	0.302	133.7	129
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	0	0.310	140.2	0
MBG06	Armorcote White Gelcoat (991WH423)	103,290	0.329	154.4	15,953
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	6,159	0.306	137.3	846
MBG07a	Armorcote Orange Gelcoat (991YK132)	2,145	0.306	137.1	294
MBG08	Armorcote Ruben Gelcoat (991RK111)	825	0.309	139.7	115
MBG08a	Armorcote Regal Gelcoat (991RK112)	3,367	0.311	140.5	473
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	490	0.308	138.8	68
MBG08c	Armorcote Pink Gelcoat (991RK124)	103	0.314	143.2	15



Total:	294,163	46,176
Weighted Average MACT Model Point Value:	157.0	
Intermediate MACT Model Point Value (lbs):	46,176	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	108,080	0.348	45.1	4,874
MBR02	Resin (LHPC3523)	561,980	0.316	36.2	20,336
MBR02a	Resin (LHPC4121)	642,780	0.316	36.2	23,260
VLER-4000	VE Resin (VLER-4000)	23,850	0.320	37.2	887
VSXH-2200	VE Resin (VSXH-2200)	6,000	0.349	45.3	272
Total:		1,342,690			49,628
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		49,628			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,773	0.358	178.7	317
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
Total:		1,818			330
Weighted Average MACT Model Point Value:		181.3			
Intermediate MACT Model Point Value (lbs):		330			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	24,190	0.280	27.4	664
945B023	Polycor Conductive Tooling (945B023)	1,750	0.469	88.8	155
Total:		25,940			819
Weighted Average MACT Model Point Value:		31.6			
Intermediate MACT Model Point Value (lbs):		819			

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending: January 2008**

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	96,952	48.48

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	45,003	0	0	0.00
Total:		45,003		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	5,080	159	808	0.40
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
953BK162	Black Gelcoat (953BK162)	18,633	159	2,963	1.48
953LK160	Dark Blue Gelcoat (953LK160)	9,052	159	1,439	0.72
963LK160	Dark Blue Gelcoat (963LK160)	783	159	124	0.06
963LK188	Midnight Blue Gelcoat (963LK188)	4,849	159	771	0.39
963RK139	Rueben Gelcoat (963RK139)	3,378	159	537	0.27
963RK140	Regal Gelcoat (963RK140)	13,715	159	2,181	1.09
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,456	159	550	0.27
963XA221	Marine Clear Gelcoat (963XA221)	2,470	159	393	0.20
967BK150	Black Barrier Coat (967BK150)	60,600	159	9,635	4.82
991GH359	Polo Green Gelcoat (991GH359)	357	159	57	0.03
991GH369	Brite Green Gelcoat (991GH369)	2,057	159	327	0.16
991NH788	Brown Gelcoat (991NH788)	3,235	159	514	0.26
991PK105	Black Iris Gelcoat (991PK105)	427	159	68	0.03
9EXFB379	Dark Blue Gelcoat (9EXFB379)	828	159	132	0.07
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	720	159	114	0.06
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG01	Black Barrier Gelcoat (967BJ244)	23,250	159	3,697	1.85
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,616	159	734	0.37
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,760	159	280	0.14

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending: February 2008</b>		
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MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,206	159	510	0.25
MBG03	Armorcote Black Gelcoat (991BK139)	93	159	15	0.01
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,941	159	309	0.15
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	4,810	159	765	0.38
MBG05a	Armorcote Platinum Gelcoat (991NK124)	965	159	153	0.08
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	50	159	8	0.00
MBG06	Armorcote White Gelcoat (991WH423)	98,095	159	15,597	7.80
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	5,255	159	836	0.42
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,890	159	301	0.15
MBG08	Armorcote Ruben Gelcoat (991RK111)	725	159	115	0.06
MBG08a	Armorcote Regal Gelcoat (991RK112)	1,739	159	277	0.14
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	490	159	78	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	149	159	24	0.01
<b>Total:</b>		<b>282,935</b>		<b>44,987</b>	<b>22.49</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	103,580	46	4,765	2.38
MBR02	Resin (LHPC3523)	489,640	46	22,523	11.26
MBR02a	Resin (LHPC4121)	682,200	46	31,381	15.69
VLER-4000	VE Resin (VLER-4000)	19,800	46	911	0.46
VSXH-2200	VE Resin (VSXH-2200)	6,000	46	276	0.14
<b>Total:</b>		<b>1,301,220</b>		<b>59,856</b>	<b>29.93</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,773	214	379	0.19
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		1,818		389	0.19

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	22,190	54	1,198	0.60
945B023	Polycor Conductive Tooling (945B023)	1,350	54	73	0.04
Total:		23,540		1,271	0.64

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	106,503	53.25

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	45,003	0.000	0.0	0
Total:		45,003			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	5,080	0.298	131.2	666
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
953BK162	Black Gelcoat (953BK162)	18,633	0.416	229.0	4,267
953LK160	Dark Blue Gelcoat (953LK160)	9,052	0.362	181.8	1,646
963LK160	Dark Blue Gelcoat (963LK160)	783	0.286	122.1	96
963LK188	Midnight Blue Gelcoat (963LK188)	4,849	0.291	126.1	612
963RK139	Rueben Gelcoat (963RK139)	3,378	0.287	123.0	415
963RK140	Regal Gelcoat (963RK140)	13,715	0.288	123.7	1,697
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,456	0.449	260.3	900
963XA221	Marine Clear Gelcoat (963XA221)	2,470	0.447	258.9	639
967BK150	Black Barrier Coat (967BK150)	60,600	0.321	148.8	9,017
991GH359	Polo Green Gelcoat (991GH359)	357	0.328	153.6	55
991GH369	Brite Green Gelcoat (991GH369)	2,057	0.325	151.7	312
991NH788	Brown Gelcoat (991NH788)	3,235	0.318	146.4	474
991PK105	Black Iris Gelcoat (991PK105)	427	0.312	141.8	61
9EXFB379	Dark Blue Gelcoat (9EXFB379)	828	0.302	133.7	111

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: February 2008</b>	
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9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	720	0.305	136.2	98
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG01	Black Barrier Gelcoat (967BJ244)	23,250	0.318	146.0	3,394
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,616	0.308	138.8	641
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,760	0.320	147.8	260
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,206	0.328	153.7	493
MBG03	Armorcote Black Gelcoat (991BK139)	93	0.326	152.5	14
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,941	0.305	136.6	265
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	4,810	0.304	135.9	654
MBG05a	Armorcote Platinum Gelcoat (991NK124)	965	0.302	133.7	129
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	50	0.310	140.2	7
MBG06	Armorcote White Gelcoat (991WH423)	98,095	0.329	154.4	15,150
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	5,255	0.306	137.3	722
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,890	0.306	137.1	259
MBG08	Armorcote Ruben Gelcoat (991RK111)	725	0.309	139.7	101
MBG08a	Armorcote Regal Gelcoat (991RK112)	1,739	0.311	140.5	244
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	490	0.308	138.8	68

<b>Mailbu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: February 2008</b>
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MBG08c	Armorcote Pink Gelcoat (991RK124)	149	0.314	143.2	21
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Total:		282,935			44,106
Weighted Average MACT Model Point Value:		155.9			
Intermediate MACT Model Point Value (lbs):		44,106			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	103,580	0.348	45.1	4,671
MBR02	Resin (LHPC3523)	489,640	0.316	36.2	17,718
MBR02a	Resin (LHPC4121)	682,200	0.316	36.2	24,686
VLER-4000	VE Resin (VLER-4000)	19,800	0.320	37.2	736
VSXH-2200	VE Resin (VSXH-2200)	6,000	0.349	45.3	272
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Total:		1,301,220			48,083
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		48,083			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,773	0.358	178.7	317
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
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Total:		1,818			330
Weighted Average MACT Model Point Value:		181.3			
Intermediate MACT Model Point Value (lbs):		330			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	22,190	0.280	27.4	609
945B023	Polycor Conductive Tooling (945B023)	1,350	0.469	88.8	120



**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: February 2008**

Total:	23,540	729
Weighted Average MACT Model Point Value:	31.0	
Intermediate MACT Model Point Value (lbs):	729	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	93,248	46.62

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	40,512	0	0	0.00
Total:		40,512		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
953BK162	Black Gelcoat (953BK162)	10,781	159	1,714	0.86
953LK160	Dark Blue Gelcoat (953LK160)	7,418	159	1,179	0.59
963LK160	Dark Blue Gelcoat (963LK160)	1,345	159	214	0.11
963LK188	Midnight Blue Gelcoat (963LK188)	4,213	159	670	0.33
963RK139	Rueben Gelcoat (963RK139)	3,663	159	582	0.29
963RK140	Regal Gelcoat (963RK140)	15,080	159	2,398	1.20
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,106	159	494	0.25
963XA221	Marine Clear Gelcoat (963XA221)	2,670	159	425	0.21
967BK150	Black Barrier Coat (967BK150)	68,680	159	10,920	5.46
991GH359	Polo Green Gelcoat (991GH359)	255	159	41	0.02
991GH369	Brite Green Gelcoat (991GH369)	1,902	159	302	0.15
991NH788	Brown Gelcoat (991NH788)	3,112	159	495	0.25
991PK105	Black Iris Gelcoat (991PK105)	523	159	83	0.04
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG01	Black Barrier Gelcoat (967BJ244)	13,130	159	2,088	1.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,257	159	677	0.34
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,653	159	263	0.13

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending: March 2008</b>	
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MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,000	159	477	0.24
MBG03	Armorcote Black Gelcoat (991BK139)	93	159	15	0.01
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,733	159	276	0.14
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	4,404	159	700	0.35
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	159	219	0.11
MBG06	Armorcote White Gelcoat (991WH423)	89,897	159	14,294	7.15
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,636	159	737	0.37
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,730	159	275	0.14
MBG08	Armorcote Ruben Gelcoat (991RK111)	151	159	24	0.01
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	298	159	47	0.02
<b>Total:</b>		<b>264,709</b>		<b>42,089</b>	<b>21.04</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	97,020	46	4,463	2.23
MBR02	Resin (LHPC3523)	358,120	46	16,474	8.24
MBR02a	Resin (LHPC4121)	722,460	46	33,233	16.62
VLER-4000	VE Resin (VLER-4000)	18,000	46	828	0.41
VSXH-2200	VE Resin (VSXH-2200)	6,000	46	276	0.14
<b>Total:</b>		<b>1,201,600</b>		<b>55,274</b>	<b>27.64</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,773	214	379	0.19

<b>Mallibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: March 2008</b>
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MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		1,818		389	0.19

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	22,090	54	1,193	0.60
945B023	Polycor Conductive Tooling (945B023)	450	54	24	0.01
Total:		22,540		1,217	0.61

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	98,969	49.48

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	40,512	0.000	0.0	0
Total:		40,512			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
953BK162	Black Gelcoat (953BK162)	10,781	0.416	229.0	2,469
953LK160	Dark Blue Gelcoat (953LK160)	7,418	0.362	181.8	1,349
963LK160	Dark Blue Gelcoat (963LK160)	1,345	0.286	122.1	164
963LK188	Midnight Blue Gelcoat (963LK188)	4,213	0.291	126.1	531
963RK139	Rueben Gelcoat (963RK139)	3,663	0.287	123.0	451
963RK140	Regal Gelcoat (963RK140)	15,080	0.288	123.7	1,865
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	3,106	0.449	260.3	809
963XA221	Marine Clear Gelcoat (963XA221)	2,670	0.447	258.9	691
967BK150	Black Barrier Coat (967BK150)	68,680	0.321	148.8	10,219
991GH359	Polo Green Gelcoat (991GH359)	255	0.328	153.6	39
991GH369	Brite Green Gelcoat (991GH369)	1,902	0.325	151.7	289
991NH788	Brown Gelcoat (991NH788)	3,112	0.318	146.4	456
991PK105	Black Iris Gelcoat (991PK105)	523	0.312	141.8	74
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264

Malibu Boats Merced Plant: NESHP MACT Point Value Compliance Report				12 Months Ending:	March 2008
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9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG01	Black Barrier Gelcoat (967BJ244)	13,130	0.318	146.0	1,916
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,257	0.308	138.8	591
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,653	0.320	147.8	244
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	3,000	0.328	153.7	461
MBG03	Armorcote Black Gelcoat (991BK139)	93	0.326	152.5	14
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,733	0.305	136.6	237
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	4,404	0.304	135.9	598
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	0.302	133.7	184
MBG06	Armorcote White Gelcoat (991WH423)	89,897	0.329	154.4	13,884
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,636	0.306	137.3	637
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,730	0.306	137.1	237
MBG08	Armorcote Ruben Gelcoat (991RK111)	151	0.309	139.7	21
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	298	0.314	143.2	43

<b>Mallibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending:</b>	<b>March 2008</b>
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Total:	264,709	40,599
Weighted Average MACT Model Point Value:	153.4	
Intermediate MACT Model Point Value (lbs):	40,599	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	97,020	0.348	45.1	4,375
MBR02	Resin (LHPC3523)	358,120	0.316	36.2	12,959
MBR02a	Resin (LHPC4121)	722,460	0.316	36.2	26,143
VLER-4000	VE Resin (VLER-4000)	18,000	0.320	37.2	669
VSXH-2200	VE Resin (VSXH-2200)	6,000	0.349	45.3	272
Total:		1,201,600			44,418
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		44,418			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,773	0.358	178.7	317
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
Total:		1,818			330
Weighted Average MACT Model Point Value:		181.3			
Intermediate MACT Model Point Value (lbs):		330			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	22,090	0.280	27.4	606
945B023	Polycor Conductive Tooling (945B023)	450	0.469	88.8	40
Total:		22,540			646
Weighted Average MACT Model Point Value:		28.7			
Intermediate MACT Model Point Value (lbs):		646			

	Pounds	Tons
Final MACT Model Point Value:	85,993	43.00



*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	39,702	0	0	0.00
Total:		39,702		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	9,700	159	1,542	0.77
5799B90020	Aztec Black Gelcoat (5799B90020)	4,470	159	711	0.36
953BK162	Black Gelcoat (953BK162)	4,430	159	704	0.35
953LK160	Dark Blue Gelcoat (953LK160)	5,988	159	952	0.48
963LK160	Dark Blue Gelcoat (963LK160)	1,907	159	303	0.15
963LK188	Midnight Blue Gelcoat (963LK188)	4,397	159	699	0.35
963RK139	Rueben Gelcoat (963RK139)	3,295	159	524	0.26
963RK140	Regal Gelcoat (963RK140)	13,712	159	2,180	1.09
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,786	159	443	0.22
963XA221	Marine Clear Gelcoat (963XA221)	2,670	159	425	0.21
967BK150	Black Barrier Coat (967BK150)	72,605	159	11,544	5.77
991GH359	Polo Green Gelcoat (991GH359)	153	159	24	0.01
991GH369	Brite Green Gelcoat (991GH369)	2,001	159	318	0.16
991NH788	Brown Gelcoat (991NH788)	2,696	159	429	0.21
991PK105	Black Iris Gelcoat (991PK105)	523	159	83	0.04
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG01	Black Barrier Gelcoat (967BJ244)	8,080	159	1,285	0.64

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending:</b>		<b>April 2008</b>
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MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,037	159	642	0.32
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,553	159	247	0.12
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,845	159	452	0.23
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,735	159	276	0.14
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	159	17	0.01
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,718	159	591	0.30
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	159	219	0.11
MBG06	Armorcote White Gelcoat (991WH423)	84,677	159	13,464	6.73
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,637	159	737	0.37
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,866	159	297	0.15
MBG08	Armorcote Ruben Gelcoat (991RK111)	151	159	24	0.01
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	560	159	89	0.04
<b>Total:</b>		<b>262,171</b>		<b>41,685</b>	<b>20.84</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	90,960	46	4,184	2.09
MBR02	Resin (LHPC3523)	317,100	46	14,587	7.29
MBR02a	Resin (LHPC4121)	723,500	46	33,281	16.64
VLER-4000	VE Resin (VLER-4000)	14,400	46	662	0.33
VSXH-2200	VE Resin (VSXH-2200)	7,500	46	345	0.17
<b>Total:</b>		<b>1,153,460</b>		<b>53,059</b>	<b>26.53</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,223	214	476	0.24
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		2,268		485	0.24

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	25,590	54	1,382	0.69
945B023	Polycor Conductive Tooling (945B023)	450	54	24	0.01
Total:		26,040		1,406	0.70

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	96,636	48.32

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	39,702	0.000	0.0	0
Total:		39,702			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	9,700	0.300	132.6	1,286
5799B90020	Aztec Black Gelcoat (5799B90020)	4,470	0.316	144.4	645
953BK162	Black Gelcoat (953BK162)	4,430	0.416	229.0	1,015
953LK160	Dark Blue Gelcoat (953LK160)	5,988	0.362	181.8	1,089
963LK160	Dark Blue Gelcoat (963LK160)	1,907	0.286	122.1	233
963LK188	Midnight Blue Gelcoat (963LK188)	4,397	0.291	126.1	555
963RK139	Rueben Gelcoat (963RK139)	3,295	0.287	123.0	405
963RK140	Regal Gelcoat (963RK140)	13,712	0.288	123.7	1,696
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,786	0.449	260.3	725
963XA221	Marine Clear Gelcoat (963XA221)	2,670	0.447	258.9	691
967BK150	Black Barrier Coat (967BK150)	72,605	0.321	148.8	10,803
991GH359	Polo Green Gelcoat (991GH359)	153	0.328	153.6	24
991GH369	Brite Green Gelcoat (991GH369)	2,001	0.325	151.7	304
991NH788	Brown Gelcoat (991NH788)	2,696	0.318	146.4	395

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>April 2008</b>
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991PK105	Black Iris Gelcoat (991PK105)	523	0.312	141.8	74
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG01	Black Barrier Gelcoat (967BJ244)	8,080	0.318	146.0	1,179
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,037	0.308	138.8	560
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,553	0.320	147.8	230
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,845	0.328	153.7	437
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,735	0.305	136.6	237
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	106	0.319	147.0	16
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,718	0.304	135.9	505
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	0.302	133.7	184
MBG06	Armorcote White Gelcoat (991WH423)	84,677	0.329	154.4	13,078
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,637	0.306	137.3	637
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,866	0.306	137.1	256
MBG08	Armorcote Ruben Gelcoat (991RK111)	151	0.309	139.7	21
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	560	0.314	143.2	80

Total:	262,171	39,469
Weighted Average MACT Model Point Value:	150.5	
Intermediate MACT Model Point Value (lbs):	39,469	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	90,960	0.348	45.1	4,102
MBR02	Resin (LHPC3523)	317,100	0.316	36.2	11,475
MBR02a	Resin (LHPC4121)	723,500	0.316	36.2	26,181
VLER-4000	VE Resin (VLER-4000)	14,400	0.320	37.2	535
VSXH-2200	VE Resin (VSXH-2200)	7,500	0.349	45.3	339
Total:		1,153,460			42,632
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		42,632			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,223	0.358	178.7	397
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
Total:		2,268			410
Weighted Average MACT Model Point Value:		180.7			
Intermediate MACT Model Point Value (lbs):		410			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	25,590	0.280	27.4	702
945B023	Polycor Conductive Tooling (945B023)	450	0.469	88.8	40
Total:		26,040			742
Weighted Average MACT Model Point Value:		28.5			
Intermediate MACT Model Point Value (lbs):		742			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	83,254	41.63

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	35,651	0	0	0.00
Total:		35,651		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	14,600	159	2,321	1.16
5788C90279	Patch Aid Reducer (5788C90279)	8	159	1	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	159	50	0.03
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	159	1,506	0.75
5799E90056	Charcoal Gelcoat (5799E90056)	180	159	29	0.01
5799L90035	Ca Yellow Gelcoat (5799L90035)	223	159	35	0.02
5799R90052	Regal Gelcoat (5799R90052)	315	159	50	0.03
953LK160	Dark Blue Gelcoat (953LK160)	5,598	159	890	0.45
963LK160	Dark Blue Gelcoat (963LK160)	2,331	159	371	0.19
963LK188	Midnight Blue Gelcoat (963LK188)	4,368	159	695	0.35
963RK139	Rueben Gelcoat (963RK139)	3,144	159	500	0.25
963RK140	Regal Gelcoat (963RK140)	11,968	159	1,903	0.95
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,386	159	379	0.19
963XA221	Marine Clear Gelcoat (963XA221)	2,670	159	425	0.21
967BK150	Black Barrier Coat (967BK150)	72,605	159	11,544	5.77
991GH359	Polo Green Gelcoat (991GH359)	153	159	24	0.01
991GH369	Brite Green Gelcoat (991GH369)	1,998	159	318	0.16
991NH788	Brown Gelcoat (991NH788)	2,290	159	364	0.18
991PK105	Black Iris Gelcoat (991PK105)	523	159	83	0.04
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16



Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit			12 Months Ending:		May 2008
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,051	159	644	0.32
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,094	159	174	0.09
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,387	159	380	0.19
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,475	159	235	0.12
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,459	159	550	0.27
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	159	219	0.11
MBG06	Armorcote White Gelcoat (991WH423)	82,357	159	13,095	6.55
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,033	159	641	0.32
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,866	159	297	0.15
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	159	73	0.04
Total:		253,744		40,345	20.17

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	88,340	46	4,064	2.03
MBR02	Resin (LHPC3523)	278,120	46	12,794	6.40
MBR02a	Resin (LHPC4121)	678,440	46	31,208	15.60
VLER-4000	VE Resin (VLER-4000)	13,500	46	621	0.31
VSXH-2200	VE Resin (VSXH-2200)	7,500	46	345	0.17

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending:</b>	<b>May 2008</b>
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Total:	1,065,900	49,031	24.52
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons	Intermediate HAP Limit
965BK183	Black VE Tooling (965BK183)	2,223	214	476	0.24	
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00	
Total:		2,268		485	0.24	

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons	Intermediate HAP Limit
1055	Tooling Resin (1055)	32,500	54	1,755	0.88	
Total:		32,500		1,755	0.88	

	<b>Pounds</b>	
NESHAP HAP Limit:	91,617	45.81

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	35,651	0.000	0.0	0
Total:		35,651			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	14,600	0.300	132.6	1,936
5788C90279	Patch Aid Reducer (5788C90279)	8	0.558	375.4	3
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	0.317	145.2	46
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	0.316	144.4	1,367
5799E90056	Charcoal Gelcoat (5799E90056)	180	0.315	144.2	26
5799L90035	Ca Yellow Gelcoat (5799L90035)	223	0.328	154.4	34
5799R90052	Regal Gelcoat (5799R90052)	315	0.319	147.1	46
953LK160	Dark Blue Gelcoat (953LK160)	5,598	0.362	181.8	1,018
963LK160	Dark Blue Gelcoat (963LK160)	2,331	0.286	122.1	285
963LK188	Midnight Blue Gelcoat (963LK188)	4,368	0.291	126.1	551
963RK139	Rueben Gelcoat (963RK139)	3,144	0.287	123.0	387
963RK140	Regal Gelcoat (963RK140)	11,968	0.288	123.7	1,480
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,386	0.449	260.3	621

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>May 2008</b>
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963XA221	Marine Clear Gelcoat (963XA221)	2,670	0.447	258.9	691
967BK150	Black Barrier Coat (967BK150)	72,605	0.321	148.8	10,803
991GH359	Polo Green Gelcoat (991GH359)	153	0.328	153.6	24
991GH369	Brite Green Gelcoat (991GH369)	1,998	0.325	151.7	303
991NH788	Brown Gelcoat (991NH788)	2,290	0.318	146.4	335
991PK105	Black Iris Gelcoat (991PK105)	523	0.312	141.8	74
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	4,051	0.308	138.8	562
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,094	0.320	147.8	162
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,387	0.328	153.7	367
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,475	0.305	136.6	202
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,459	0.304	135.9	470
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,375	0.302	133.7	184
MBG06	Armorcote White Gelcoat (991WH423)	82,357	0.329	154.4	12,720
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	4,033	0.306	137.3	554
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,866	0.306	137.1	256
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>May 2008</b>
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MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	0.314	143.2	65

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Total:	253,744				37,759
Weighted Average MACT Model Point Value:	148.8				
Intermediate MACT Model Point Value (lbs):	37,759				

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	88,340	0.348	45.1	3,984
MBR02	Resin (LHPC3523)	278,120	0.316	36.2	10,064
MBR02a	Resin (LHPC4121)	678,440	0.316	36.2	24,550
VLER-4000	VE Resin (VLER-4000)	13,500	0.320	37.2	502
VSXH-2200	VE Resin (VSXH-2200)	7,500	0.349	45.3	339

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Total:	1,065,900				39,439
Weighted Average MACT Model Point Value:	37.0				
Intermediate MACT Model Point Value (lbs):	39,439				

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,223	0.358	178.7	397
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13

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Total:	2,268				410
Weighted Average MACT Model Point Value:	180.7				
Intermediate MACT Model Point Value (lbs):	410				

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	32,500	0.280	27.4	892

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending: May 2008**

Total:	32,500	892
Weighted Average MACT Model Point Value:	27.4	
Intermediate MACT Model Point Value (lbs):	892	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	78,500	39.25

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	32,410	0	0	0.00
Total:		32,410		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	19,500	159	3,101	1.55
5788C90279	Patch Aid Reducer (5788C90279)	8	159	1	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	159	50	0.03
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	159	1,506	0.75
5799E90056	Charcoal Gelcoat (5799E90056)	180	159	29	0.01
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	1,260	159	200	0.10
953LK160	Dark Blue Gelcoat (953LK160)	4,127	159	656	0.33
963LK160	Dark Blue Gelcoat (963LK160)	2,839	159	451	0.23
963LK188	Midnight Blue Gelcoat (963LK188)	3,896	159	619	0.31
963RK139	Rueben Gelcoat (963RK139)	2,334	159	371	0.19
963RK140	Regal Gelcoat (963RK140)	11,127	159	1,769	0.88
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,386	159	379	0.19
963XA221	Marine Clear Gelcoat (963XA221)	2,670	159	425	0.21
967BK150	Black Barrier Coat (967BK150)	60,485	159	9,617	4.81
991GH359	Polo Green Gelcoat (991GH359)	407	159	65	0.03
991GH369	Brite Green Gelcoat (991GH369)	1,897	159	302	0.15
991NH788	Brown Gelcoat (991NH788)	2,122	159	337	0.17
991PK105	Black Iris Gelcoat (991PK105)	574	159	91	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit			12 Months Ending:		June 2008
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,633	159	578	0.29
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,094	159	174	0.09
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,089	159	332	0.17
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,414	159	225	0.11
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,392	159	539	0.27
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,466	159	233	0.12
MBG06	Armorcote White Gelcoat (991WH423)	73,657	159	11,711	5.86
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	3,675	159	584	0.29
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,560	159	248	0.12
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	159	73	0.04
Total:		234,437		37,275	18.64

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	82,740	46	3,806	1.90
MBR02	Resin (LHPC3523)	278,120	46	12,794	6.40
MBR02a	Resin (LHPC4121)	637,080	46	29,306	14.65
VLER-4000	VE Resin (VLER-4000)	11,250	46	518	0.26
VSXH-2200	VE Resin (VSXH-2200)	8,500	46	391	0.20



Total:	1,017,690	46,814	23.41
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	1,773	214	379	0.19
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		1,818		389	0.19

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	30,000	54	1,620	0.81
Total:		30,000		1,620	0.81

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	86,098	43.05

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	32,410	0.000	0.0	0
Total:		32,410			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	19,500	0.300	132.6	2,585
5788C90279	Patch Aid Reducer (5788C90279)	8	0.558	375.4	3
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	0.317	145.2	46
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	0.316	144.4	1,367
5799E90056	Charcoal Gelcoat (5799E90056)	180	0.315	144.2	26
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	1,260	0.319	147.1	185
953LK160	Dark Blue Gelcoat (953LK160)	4,127	0.362	181.8	750
963LK160	Dark Blue Gelcoat (963LK160)	2,839	0.286	122.1	347
963LK188	Midnight Blue Gelcoat (963LK188)	3,896	0.291	126.1	491
963RK139	Rueben Gelcoat (963RK139)	2,334	0.287	123.0	287
963RK140	Regal Gelcoat (963RK140)	11,127	0.288	123.7	1,376
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	2,386	0.449	260.3	621

Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report				12 Months Ending:	June 2008
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963XA221	Marine Clear Gelcoat (963XA221)	2,670	0.447	258.9	691
967BK150	Black Barrier Coat (967BK150)	60,485	0.321	148.8	9,000
991GH359	Polo Green Gelcoat (991GH359)	407	0.328	153.6	63
991GH369	Brite Green Gelcoat (991GH369)	1,897	0.325	151.7	288
991NH788	Brown Gelcoat (991NH788)	2,122	0.318	146.4	311
991PK105	Black Iris Gelcoat (991PK105)	574	0.312	141.8	81
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,633	0.308	138.8	504
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,094	0.320	147.8	162
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	2,089	0.328	153.7	321
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,414	0.305	136.6	193
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,392	0.304	135.9	461
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,466	0.302	133.7	196
MBG06	Armorcote White Gelcoat (991WH423)	73,657	0.329	154.4	11,376
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	3,675	0.306	137.3	505
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,560	0.306	137.1	214
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>June 2008</b>
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MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	0.314	143.2	65

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Total:	234,437	34,759
Weighted Average MACT Model Point Value:	148.3	
Intermediate MACT Model Point Value (lbs):	34,759	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	82,740	0.348	45.1	3,731
MBR02	Resin (LHPC3523)	278,120	0.316	36.2	10,064
MBR02a	Resin (LHPC4121)	637,080	0.316	36.2	23,053
VLER-4000	VE Resin (VLER-4000)	11,250	0.320	37.2	418
VSXH-2200	VE Resin (VSXH-2200)	8,500	0.349	45.3	385

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Total:	1,017,690	37,652
Weighted Average MACT Model Point Value:	37.0	
Intermediate MACT Model Point Value (lbs):	37,652	

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	1,773	0.358	178.7	317
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13

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Total:	1,818	330
Weighted Average MACT Model Point Value:	181.3	
Intermediate MACT Model Point Value (lbs):	330	

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	30,000	0.280	27.4	823

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending:</b>	<b>June 2008</b>
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Total:	30,000	823
Weighted Average MACT Model Point Value:	27.4	
Intermediate MACT Model Point Value (lbs):	823	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	73,564	36.78

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	29,979	0	0	0.00
Total:		29,979		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	23,910	159	3,802	1.90
5788C90279	Patch Aid Reducer (5788C90279)	25	159	4	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	159	50	0.03
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	159	1,506	0.75
5799E90056	Charcoal Gelcoat (5799E90056)	180	159	29	0.01
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	1,440	159	229	0.11
953LK160	Dark Blue Gelcoat (953LK160)	3,507	159	558	0.28
963LK160	Dark Blue Gelcoat (963LK160)	2,839	159	451	0.23
963LK188	Midnight Blue Gelcoat (963LK188)	3,580	159	569	0.28
963RK139	Rueben Gelcoat (963RK139)	2,238	159	356	0.18
963RK140	Regal Gelcoat (963RK140)	9,878	159	1,571	0.79
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,793	159	285	0.14
963XA221	Marine Clear Gelcoat (963XA221)	3,045	159	484	0.24
967BK150	Black Barrier Coat (967BK150)	58,465	159	9,296	4.65
991GH359	Polo Green Gelcoat (991GH359)	407	159	65	0.03
991GH369	Brite Green Gelcoat (991GH369)	1,897	159	302	0.15
991NH788	Brown Gelcoat (991NH788)	1,869	159	297	0.15
991PK105	Black Iris Gelcoat (991PK105)	574	159	91	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit			12 Months Ending:		July 2008
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,333	159	530	0.26
MBG02a	Armorcote Marble Gelcoat (991AK139)	938	159	149	0.07
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,891	159	301	0.15
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,311	159	208	0.10
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,289	159	523	0.26
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,046	159	166	0.08
MBG06	Armorcote White Gelcoat (991WH423)	71,317	159	11,339	5.67
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	3,272	159	520	0.26
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,206	159	192	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	159	86	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	159	73	0.04
Total:		229,895		36,553	18.28

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs)	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	77,940	46	3,585	1.79
MBR02	Resin (LHPC3523)	278,120	46	12,794	6.40
MBR02a	Resin (LHPC4121)	594,120	46	27,330	13.66
VLER-4000	VE Resin (VLER-4000)	10,450	46	481	0.24
VSXH-2200	VE Resin (VSXH-2200)	12,000	46	552	0.28

Total:	972,630	44,741	22.37
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,223	214	476	0.24
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		2,268		485	0.24

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
1055	Tooling Resin (1055)	28,500	54	1,539	0.77
Total:		28,500		1,539	0.77

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	83,319	41.66



*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	29,979	0.000	0.0	0
Total:		29,979			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	23,910	0.300	132.6	3,170
5788C90279	Patch Aid Reducer (5788C90279)	25	0.558	375.4	9
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	0.317	145.2	46
5799B90020	Aztec Black Gelcoat (5799B90020)	9,470	0.316	144.4	1,367
5799E90056	Charcoal Gelcoat (5799E90056)	180	0.315	144.2	26
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	1,440	0.319	147.1	212
953LK160	Dark Blue Gelcoat (953LK160)	3,507	0.362	181.8	638
963LK160	Dark Blue Gelcoat (963LK160)	2,839	0.286	122.1	347
963LK188	Midnight Blue Gelcoat (963LK188)	3,580	0.291	126.1	452
963RK139	Rueben Gelcoat (963RK139)	2,238	0.287	123.0	275
963RK140	Regal Gelcoat (963RK140)	9,878	0.288	123.7	1,222
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,793	0.449	260.3	467

Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report				12 Months Ending:	July 2008
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963XA221	Marine Clear Gelcoat (963XA221)	3,045	0.447	258.9	788
967BK150	Black Barrier Coat (967BK150)	58,465	0.321	148.8	8,699
991GH359	Polo Green Gelcoat (991GH359)	407	0.328	153.6	63
991GH369	Brite Green Gelcoat (991GH369)	1,897	0.325	151.7	288
991NH788	Brown Gelcoat (991NH788)	1,869	0.318	146.4	274
991PK105	Black Iris Gelcoat (991PK105)	574	0.312	141.8	81
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,333	0.308	138.8	463
MBG02a	Armorcote Marble Gelcoat (991AK139)	938	0.320	147.8	139
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,891	0.328	153.7	291
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,311	0.305	136.6	179
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	3,289	0.304	135.9	447
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,046	0.302	133.7	140
MBG06	Armorcote White Gelcoat (991WH423)	71,317	0.329	154.4	11,015
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	3,272	0.306	137.3	449
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,206	0.306	137.1	165
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending:</b>	<b>July 2008</b>
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MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	541	0.308	138.8	75
MBG08c	Armorcote Pink Gelcoat (991RK124)	457	0.314	143.2	65
<b>Total:</b>		<b>229,895</b>			<b>34,018</b>
Weighted Average MACT Model Point Value:		148.0			
Intermediate MACT Model Point Value (lbs):		34,018			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	77,940	0.348	45.1	3,515
MBR02	Resin (LHPC3523)	278,120	0.316	36.2	10,064
MBR02a	Resin (LHPC4121)	594,120	0.316	36.2	21,499
VLER-4000	VE Resin (VLER-4000)	10,450	0.320	37.2	389
VSXH-2200	VE Resin (VSXH-2200)	12,000	0.349	45.3	543
<b>Total:</b>		<b>972,630</b>			<b>36,009</b>
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		36,009			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,223	0.358	178.7	397
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
<b>Total:</b>		<b>2,268</b>			<b>410</b>
Weighted Average MACT Model Point Value:		180.7			
Intermediate MACT Model Point Value (lbs):		410			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
1055	Tooling Resin (1055)	28,500	0.280	27.4	782

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending:**      **July 2008**

Total:	28,500	782
Weighted Average MACT Model Point Value:	27.4	
Intermediate MACT Model Point Value (lbs):	782	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	71,220	35.61

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	28,359	0	0	0.00
Total:		28,359		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	23,910	159	3,802	1.90
5788C90279	Patch Aid Reducer (5788C90279)	25	159	4	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	159	50	0.03
5799B90020	Aztec Black Gelcoat (5799B90020)	14,470	159	2,301	1.15
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	2,295	159	365	0.18
953LK160	Dark Blue Gelcoat (953LK160)	2,979	159	474	0.24
963LK160	Dark Blue Gelcoat (963LK160)	3,038	159	483	0.24
963LK188	Midnight Blue Gelcoat (963LK188)	3,012	159	479	0.24
963RK139	Rueben Gelcoat (963RK139)	2,329	159	370	0.19
963RK140	Regal Gelcoat (963RK140)	8,628	159	1,372	0.69
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,280	159	204	0.10
963XA221	Marine Clear Gelcoat (963XA221)	4,475	159	712	0.36
967BK150	Black Barrier Coat (967BK150)	58,465	159	9,296	4.65
991GH359	Polo Green Gelcoat (991GH359)	648	159	103	0.05
991GH369	Brite Green Gelcoat (991GH369)	2,150	159	342	0.17
991NH788	Brown Gelcoat (991NH788)	2,168	159	345	0.17
991PK105	Black Iris Gelcoat (991PK105)	916	159	146	0.07
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending: August 2008</b>		
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9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,221	159	512	0.26
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,026	159	163	0.08
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,538	159	245	0.12
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,608	159	256	0.13
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,659	159	423	0.21
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,046	159	166	0.08
MBG06	Armorcote White Gelcoat (991WH423)	68,997	159	10,971	5.49
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,718	159	432	0.22
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,501	159	239	0.12
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	693	159	110	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	159	80	0.04
<b>Total:</b>		<b>233,648</b>		<b>37,150</b>	<b>18.58</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	72,800	46	3,349	1.67
MBR02	Resin (LHPC3523)	278,120	46	12,794	6.40
MBR02a	Resin (LHPC4121)	556,260	46	25,588	12.79
VLER-4000	VE Resin (VLER-4000)	7,300	46	336	0.17
VSXH-2200	VE Resin (VSXH-2200)	12,000	46	552	0.28

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>	<b>12 Months Ending: August 2008</b>
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Total:	926,480	42,618	21.31
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,671	214	572	0.29
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		2,716		581	0.29

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	960	54	52	0.03
1055	Tooling Resin (1055)	26,000	54	1,404	0.70
Total:		26,960		1,456	0.73

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	81,805	40.90

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	28,359	0.000	0.0	0
Total:		28,359			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	23,910	0.300	132.6	3,170
5788C90279	Patch Aid Reducer (5788C90279)	25	0.558	375.4	9
5799A90073	Midnight Blue Gelcoat (5799A90073)	315	0.317	145.2	46
5799B90020	Aztec Black Gelcoat (5799B90020)	14,470	0.316	144.4	2,089
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	2,295	0.319	147.1	338
953LK160	Dark Blue Gelcoat (953LK160)	2,979	0.362	181.8	542
963LK160	Dark Blue Gelcoat (963LK160)	3,038	0.286	122.1	371
963LK188	Midnight Blue Gelcoat (963LK188)	3,012	0.291	126.1	380
963RK139	Rueben Gelcoat (963RK139)	2,329	0.287	123.0	286
963RK140	Regal Gelcoat (963RK140)	8,628	0.288	123.7	1,067
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,280	0.449	260.3	333



Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report				12 Months Ending:	August 2008
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ID	Coat Name	Value	MACT	12 Months	August 2008
963XA221	Marine Clear Gelcoat (963XA221)	4,475	0.447	258.9	1,158
967BK150	Black Barrier Coat (967BK150)	58,465	0.321	148.8	8,699
991GH359	Polo Green Gelcoat (991GH359)	648	0.328	153.6	100
991GH369	Brite Green Gelcoat (991GH369)	2,150	0.325	151.7	326
991NH788	Brown Gelcoat (991NH788)	2,168	0.318	146.4	317
991PK105	Black Iris Gelcoat (991PK105)	916	0.312	141.8	130
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,221	0.308	138.8	447
MBG02a	Armorcote Marble Gelcoat (991AK139)	1,026	0.320	147.8	152
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,538	0.328	153.7	236
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,608	0.305	136.6	220
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,659	0.304	135.9	361
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,046	0.302	133.7	140
MBG06	Armorcote White Gelcoat (991WH423)	68,997	0.329	154.4	10,656
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,718	0.306	137.3	373
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,501	0.306	137.1	206
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report**      **12 Months Ending:**      **August 2008**

MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	693	0.308	138.8	96
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	0.314	143.2	72

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Total:	233,648	34,658
Weighted Average MACT Model Point Value:	148.3	
Intermediate MACT Model Point Value (lbs):	34,658	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	72,800	0.348	45.1	3,283
MBR02	Resin (LHPC3523)	278,120	0.316	36.2	10,064
MBR02a	Resin (LHPC4121)	556,260	0.316	36.2	20,129
VLER-4000	VE Resin (VLER-4000)	7,300	0.320	37.2	271
VSXH-2200	VE Resin (VSXH-2200)	12,000	0.349	45.3	543

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Total:	926,480	34,291
Weighted Average MACT Model Point Value:	37.0	
Intermediate MACT Model Point Value (lbs):	34,291	

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,671	0.358	178.7	477
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13

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Total:	2,716	490
Weighted Average MACT Model Point Value:	180.4	
Intermediate MACT Model Point Value (lbs):	490	

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	960	0.382	55.7	53

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>August 2008</b>
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1055	Tooling Resin (1055)	26,000	0.280	27.4	713
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Total:		26,960			767
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Weighted Average MACT Model Point Value:		28.4			
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Intermediate MACT Model Point Value (lbs):		767			
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			<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:			70,206	35.10

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	29,169	0	0	0.00
Total:		29,169		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,430	159	1,181	0.59
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	29,300	159	4,659	2.33
5788C90279	Patch Aid Reducer (5788C90279)	33	159	5	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	765	159	122	0.06
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	159	3,175	1.59
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	3,105	159	494	0.25
953LK160	Dark Blue Gelcoat (953LK160)	1,890	159	301	0.15
963LK160	Dark Blue Gelcoat (963LK160)	3,746	159	596	0.30
963LK188	Midnight Blue Gelcoat (963LK188)	2,493	159	396	0.20
963RK139	Rueben Gelcoat (963RK139)	2,281	159	363	0.18
963RK140	Regal Gelcoat (963RK140)	7,738	159	1,230	0.62
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,080	159	172	0.09
963XA221	Marine Clear Gelcoat (963XA221)	4,475	159	712	0.36
967BK150	Black Barrier Coat (967BK150)	52,910	159	8,413	4.21
991GH359	Polo Green Gelcoat (991GH359)	698	159	111	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,692	159	269	0.13
991NH788	Brown Gelcoat (991NH788)	1,871	159	297	0.15
991PK105	Black Iris Gelcoat (991PK105)	869	159	138	0.07
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	159	314	0.16

Malibu Boats Merced Plant; NESHAP Equation 1 HAP Limit				12 Months Ending September 2008		
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Product Number	Product Name	Usage (lbs)	NESHAP EF	Pounds	Tons
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	159	172	0.09
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	159	136	0.07
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	159	72	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,153	159	501	0.25
MBG02a	Armorcote Marble Gelcoat (991AK139)	501	159	80	0.04
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,244	159	198	0.10
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,351	159	215	0.11
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,629	159	418	0.21
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,220	159	194	0.10
MBG06	Armorcote White Gelcoat (991WH423)	68,975	159	10,967	5.48
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,775	159	441	0.22
MBG07a	Armorcote Orange Gelcoat (991YK132)	892	159	142	0.07
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	693	159	110	0.06
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	159	80	0.04
Total:		235,887		37,506	18.75

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	68,640	46	3,157	1.58
MBR02	Resin (LHPC3523)	237,860	46	10,942	5.47
MBR02a	Resin (LHPC4121)	558,400	46	25,686	12.84
VLER-4000	VE Resin (VLER-4000)	5,950	46	274	0.14
VSXH-2200	VE Resin (VSXH-2200)	12,000	46	552	0.28

Total:	882,850	40,611	20.31
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*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,595	214	555	0.28
MBG0a	Polycor HG Green Tooling (945GA104)	45	214	10	0.00
Total:		2,640		565	0.28

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	960	54	52	0.03
1055	Tooling Resin (1055)	24,500	54	1,323	0.66
Total:		25,460		1,375	0.69

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	80,057	40.03

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	29,169	0.000	0.0	0
Total:		29,169			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,430	0.298	131.2	975
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	29,300	0.300	132.6	3,884
5788C90279	Patch Aid Reducer (5788C90279)	33	0.558	375.4	12
5799A90073	Midnight Blue Gelcoat (5799A90073)	765	0.317	145.2	111
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	0.316	144.4	2,883
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	3,105	0.319	147.1	457
953LK160	Dark Blue Gelcoat (953LK160)	1,890	0.362	181.8	344
963LK160	Dark Blue Gelcoat (963LK160)	3,746	0.286	122.1	457
963LK188	Midnight Blue Gelcoat (963LK188)	2,493	0.291	126.1	314
963RK139	Rueben Gelcoat (963RK139)	2,281	0.287	123.0	281
963RK140	Regal Gelcoat (963RK140)	7,738	0.288	123.7	957
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,080	0.449	260.3	281

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: September 2008</b>	
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963XA221	Marine Clear Gelcoat (963XA221)	4,475	0.447	258.9	1,158
967BK150	Black Barrier Coat (967BK150)	52,910	0.321	148.8	7,872
991GH359	Polo Green Gelcoat (991GH359)	698	0.328	153.6	107
991GH369	Brite Green Gelcoat (991GH369)	1,692	0.325	151.7	257
991NH788	Brown Gelcoat (991NH788)	1,871	0.318	146.4	274
991PK105	Black Iris Gelcoat (991PK105)	869	0.312	141.8	123
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,977	0.302	133.7	264
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,080	0.307	138.0	149
9EXFB389	CA Yellow Gelcoat (9EXFB389)	855	0.305	136.2	116
9EXFB395	Charcoal Gelcoat (9EXFB395)	450	0.311	140.8	63
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,153	0.308	138.8	438
MBG02a	Armorcote Marble Gelcoat (991AK139)	501	0.320	147.8	74
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	1,244	0.328	153.7	191
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,351	0.305	136.6	185
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,629	0.304	135.9	357
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,220	0.302	133.7	163
MBG06	Armorcote White Gelcoat (991WH423)	68,975	0.329	154.4	10,653
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,775	0.306	137.3	381
MBG07a	Armorcote Orange Gelcoat (991YK132)	892	0.306	137.1	122
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48



<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: September 2008</b>
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MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	693	0.308	138.8	96
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	0.314	143.2	72
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Total:		235,887			34,844
Weighted Average MACT Model Point Value:		147.7			
Intermediate MACT Model Point Value (lbs):		34,844			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	68,640	0.348	45.1	3,096
MBR02	Resin (LHPC3523)	237,860	0.316	36.2	8,607
MBR02a	Resin (LHPC4121)	558,400	0.316	36.2	20,206
VLER-4000	VE Resin (VLER-4000)	5,950	0.320	37.2	221
VSXH-2200	VE Resin (VSXH-2200)	12,000	0.349	45.3	543
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Total:		882,850			32,673
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		32,673			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,595	0.358	178.7	464
MBG0a	Polycor HG Green Tooling (945GA104)	45	0.472	283.7	13
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Total:		2,640			476
Weighted Average MACT Model Point Value:		180.4			
Intermediate MACT Model Point Value (lbs):		476			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	960	0.382	55.7	53

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: September 2008</b>	
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1055	Tooling Resin (1055)	24,500	0.280	27.4	672
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Total:	25,460				726
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Weighted Average MACT Model Point Value:	28.5				
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Intermediate MACT Model Point Value (lbs):	726				
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		<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:		68,719	34.36

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	27,548	0	0	0.00
Total:		27,548		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	13,407	159	2,132	1.07
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	29,300	159	4,659	2.33
5788C90279	Patch Aid Reducer (5788C90279)	33	159	5	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	765	159	122	0.06
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	159	3,175	1.59
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	3,105	159	494	0.25
953LK160	Dark Blue Gelcoat (953LK160)	470	159	75	0.04
963LK160	Dark Blue Gelcoat (963LK160)	3,746	159	596	0.30
963LK188	Midnight Blue Gelcoat (963LK188)	1,857	159	295	0.15
963RK139	Rueben Gelcoat (963RK139)	1,950	159	310	0.16
963RK140	Regal Gelcoat (963RK140)	6,957	159	1,106	0.55
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,080	159	172	0.09
963XA221	Marine Clear Gelcoat (963XA221)	4,475	159	712	0.36
967BK150	Black Barrier Coat (967BK150)	54,443	159	8,656	4.33
991GH359	Polo Green Gelcoat (991GH359)	698	159	111	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,364	159	217	0.11
991NH788	Brown Gelcoat (991NH788)	1,949	159	310	0.15
991PK105	Black Iris Gelcoat (991PK105)	676	159	107	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	159	412	0.21

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending: October 2008</b>		
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9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	159	216	0.11
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	159	168	0.08
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	159	89	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,222	159	512	0.26
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	159	119	0.06
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,267	159	201	0.10
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,351	159	374	0.19
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991WH423)	65,017	159	10,338	5.17
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,219	159	353	0.18
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,032	159	164	0.08
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	596	159	95	0.05
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	159	80	0.04
<b>Total:</b>		<b>235,844</b>		<b>37,499</b>	<b>18.75</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	65,540	46	3,015	1.51
MBR02	Resin (LHPC3523)	237,860	46	10,942	5.47
MBR02a	Resin (LHPC4121)	520,920	46	23,962	11.98
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11
VSXH-2200	VE Resin (VSXH-2200)	12,000	46	552	0.28

Total:	840,920	38,682	19.34
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*Tooling Gelcoat, Atomized*

				Intermediate HAP Limit	
Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,595	214	555	0.28
Total:		2,595		555	0.28

*Tooling Resin, Non-Atomized*

				Intermediate HAP Limit	
Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	23,000	54	1,242	0.62
Total:		24,920		1,346	0.67

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	78,083	39.04

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	27,548	0.000	0.0	0
Total:		27,548			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	13,407	0.298	131.2	1,759
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	29,300	0.300	132.6	3,884
5788C90279	Patch Aid Reducer (5788C90279)	33	0.558	375.4	12
5799A90073	Midnight Blue Gelcoat (5799A90073)	765	0.317	145.2	111
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	0.316	144.4	2,883
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	3,105	0.319	147.1	457
953LK160	Dark Blue Gelcoat (953LK160)	470	0.362	181.8	85
963LK160	Dark Blue Gelcoat (963LK160)	3,746	0.286	122.1	457
963LK188	Midnight Blue Gelcoat (963LK188)	1,857	0.291	126.1	234
963RK139	Rueben Gelcoat (963RK139)	1,950	0.287	123.0	240
963RK140	Regal Gelcoat (963RK140)	6,957	0.288	123.7	861
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	1,080	0.449	260.3	281

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>October 2008</b>
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963XA221	Marine Clear Gelcoat (963XA221)	4,475	0.447	258.9	1,158
967BK150	Black Barrier Coat (967BK150)	54,443	0.321	148.8	8,101
991GH359	Polo Green Gelcoat (991GH359)	698	0.328	153.6	107
991GH369	Brite Green Gelcoat (991GH369)	1,364	0.325	151.7	207
991NH788	Brown Gelcoat (991NH788)	1,949	0.318	146.4	285
991PK105	Black Iris Gelcoat (991PK105)	676	0.312	141.8	96
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	0.302	133.7	347
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	0.307	138.0	187
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	0.305	136.2	144
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	0.311	140.8	79
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,222	0.308	138.8	447
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	0.328	153.7	115
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,267	0.305	136.6	173
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	2,351	0.304	135.9	319
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991WH423)	65,017	0.329	154.4	10,042
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	2,219	0.306	137.3	305
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,032	0.306	137.1	141
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: October 2008</b>
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MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	596	0.308	138.8	83
MBG08c	Armorcote Pink Gelcoat (991RK124)	506	0.314	143.2	72
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Total:		235,844			34,696
Weighted Average MACT Model Point Value:		147.1			
Intermediate MACT Model Point Value (lbs):		34,696			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	65,540	0.348	45.1	2,956
MBR02	Resin (LHPC3523)	237,860	0.316	36.2	8,607
MBR02a	Resin (LHPC4121)	520,920	0.316	36.2	18,850
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	12,000	0.349	45.3	543
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Total:		840,920			31,127
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		31,127			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,595	0.358	178.7	464
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Total:		2,595			464
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		464			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	23,000	0.280	27.4	631



Total:	24,920	738
Weighted Average MACT Model Point Value:	29.6	
Intermediate MACT Model Point Value (lbs):	738	

	Pounds	Tons
Final MACT Model Point Value:	67,024	33.51

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	25,928	0	0	0.00
Total:		25,928		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	14,407	159	2,291	1.15
100RH540	Regal Gelcoat (100RH540)	1,140	159	181	0.09
100YH895	California Yellow Gelcoat (100YH895)	1,485	159	236	0.12
200LK202	Black Barrier Coat (200LK202)	33,220	159	5,282	2.64
5788C90279	Patch Aid Reducer (5788C90279)	33	159	5	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	930	159	148	0.07
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	159	3,175	1.59
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	3,420	159	544	0.27
953LK160	Dark Blue Gelcoat (953LK160)	315	159	50	0.03
963LK160	Dark Blue Gelcoat (963LK160)	4,570	159	727	0.36
963LK188	Midnight Blue Gelcoat (963LK188)	1,698	159	270	0.13
963RK139	Rueben Gelcoat (963RK139)	1,649	159	262	0.13
963RK140	Regal Gelcoat (963RK140)	6,006	159	955	0.48
963WH671	White Gelcoat (963WH671)	4,434	159	705	0.35
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	600	159	95	0.05
963XA221	Marine Clear Gelcoat (963XA221)	4,675	159	743	0.37
967BK150	Black Barrier Coat (967BK150)	47,843	159	7,607	3.80
991GH359	Polo Green Gelcoat (991GH359)	948	159	151	0.08
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,795	159	285	0.14
991PK105	Black Iris Gelcoat (991PK105)	676	159	107	0.05

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit				12 Months Ending November 2008		
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9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	159	412	0.21
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	159	216	0.11
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	159	168	0.08
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	159	89	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,064	159	487	0.24
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	159	119	0.06
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,012	159	161	0.08
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,872	159	298	0.15
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991WH423)	58,060	159	9,232	4.62
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	1,709	159	272	0.14
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	443	159	70	0.04
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	159	88	0.04
Total:		229,630		36,511	18.26

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	61,880	46	2,846	1.42
MBR02	Resin (LHPC3523)	237,860	46	10,942	5.47
MBR02a	Resin (LHPC4121)	441,660	46	20,316	10.16
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending November 2008</b>	
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VSXH-2200	VE Resin (VSXH-2200)	10,000	46	460	0.23
Total:		756,000		34,776	17.39

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,604	214	557	0.28
Total:		2,604		557	0.28

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	22,500	54	1,215	0.61
Total:		24,420		1,319	0.66

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	73,163	36.58

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	25,928	0.000	0.0	0
<b>Total:</b>		25,928			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	14,407	0.298	131.2	1,890
100RH540	Regal Gelcoat (100RH540)	1,140	0.320	147.6	168
100YH895	California Yellow Gelcoat (100YH895)	1,485	0.323	150.3	223
200LK202	Black Barrier Coat (200LK202)	33,220	0.300	132.6	4,404
5788C90279	Patch Aid Reducer (5788C90279)	33	0.558	375.4	12
5799A90073	Midnight Blue Gelcoat (5799A90073)	930	0.317	145.2	135
5799B90020	Aztec Black Gelcoat (5799B90020)	19,970	0.316	144.4	2,883
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	3,420	0.319	147.1	503
953LK160	Dark Blue Gelcoat (953LK160)	315	0.362	181.8	57
963LK160	Dark Blue Gelcoat (963LK160)	4,570	0.286	122.1	558
963LK188	Midnight Blue Gelcoat (963LK188)	1,698	0.291	126.1	214
963RK139	Rueben Gelcoat (963RK139)	1,649	0.287	123.0	203
963RK140	Regal Gelcoat (963RK140)	6,006	0.288	123.7	743
963WH671	White Gelcoat (963WH671)	4,434	0.302	134.0	594

Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report				12 Months Ending: November 2008	
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963XA220	Armorflex Marine Clear Gelcoat (963XA220)	600	0.449	260.3	156
963XA221	Marine Clear Gelcoat (963XA221)	4,675	0.447	258.9	1,210
967BK150	Black Barrier Coat (967BK150)	47,843	0.321	148.8	7,119
991GH359	Polo Green Gelcoat (991GH359)	948	0.328	153.6	146
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169
991NH788	Brown Gelcoat (991NH788)	1,795	0.318	146.4	263
991PK105	Black Iris Gelcoat (991PK105)	676	0.312	141.8	96
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	0.302	133.7	347
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	0.307	138.0	187
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	0.305	136.2	144
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	0.311	140.8	79
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,064	0.308	138.8	425
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	0.328	153.7	115
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	1,012	0.305	136.6	138
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,872	0.304	135.9	254
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991WH423)	58,060	0.329	154.4	8,967
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	1,709	0.306	137.3	235
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: November 2008</b>
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MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	443	0.308	138.8	61
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	0.314	143.2	80

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Total:	229,630	33,577
Weighted Average MACT Model Point Value:	146.2	
Intermediate MACT Model Point Value (lbs):	33,577	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	61,880	0.348	45.1	2,791
MBR02	Resin (LHPC3523)	237,860	0.316	36.2	8,607
MBR02a	Resin (LHPC4121)	441,660	0.316	36.2	15,982
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	10,000	0.349	45.3	453

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Total:	756,000	28,003
Weighted Average MACT Model Point Value:	37.0	
Intermediate MACT Model Point Value (lbs):	28,003	

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,604	0.358	178.7	465

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Total:	2,604	465
Weighted Average MACT Model Point Value:	178.7	
Intermediate MACT Model Point Value (lbs):	465	

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107

<b>Mailbu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: November 2008</b>	
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1055	Tooling Resin (1055)	22,500	0.280	27.4	617
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Total:		24,420			724
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Weighted Average MACT Model Point Value:		29.7			
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Intermediate MACT Model Point Value (lbs):		724			
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			<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:			62,770	31.39



*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	22,687	0	0	0.00
Total:		22,687		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	14,922	159	2,373	1.19
100RH540	Regal Gelcoat (100RH540)	572	159	91	0.05
100YH895	California Yellow Gelcoat (100YH895)	792	159	126	0.06
200LK202	Black Barrier Coat (200LK202)	37,140	159	5,905	2.95
5788C90279	Patch Aid Reducer (5788C90279)	41	159	7	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	159	198	0.10
5799B90020	Aztec Black Gelcoat (5799B90020)	23,970	159	3,811	1.91
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	159	186	0.09
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	159	57	0.03
5799R90052	Regal Gelcoat (5799R90052)	4,455	159	708	0.35
963LK160	Dark Blue Gelcoat (963LK160)	4,570	159	727	0.36
963LK188	Midnight Blue Gelcoat (963LK188)	1,752	159	279	0.14
963RK139	Rueben Gelcoat (963RK139)	1,445	159	230	0.11
963RK140	Regal Gelcoat (963RK140)	5,592	159	889	0.44
963WH671	White Gelcoat (963WH671)	4,434	159	705	0.35
963XA221	Marine Clear Gelcoat (963XA221)	4,675	159	743	0.37
967BK150	Black Barrier Coat (967BK150)	43,803	159	6,965	3.48
991GH359	Polo Green Gelcoat (991GH359)	795	159	126	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,639	159	261	0.13
991PK105	Black Iris Gelcoat (991PK105)	676	159	107	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	159	412	0.21
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	159	216	0.11
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	159	168	0.08

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit				12 Months Ending December 2008		
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9EXFB395	Charcoal Gelcoat (9EXFB395)	561	159	89	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,014	159	479	0.24
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	159	119	0.06
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	895	159	142	0.07
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,293	159	206	0.10
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991WH423)	51,100	159	8,125	4.06
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	1,709	159	272	0.14
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	159	86	0.04
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	342	159	54	0.03
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	159	88	0.04
Total:		224,527		35,700	17.85

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	58,660	46	2,698	1.35
MBR02	Resin (LHPC3523)	237,320	46	10,917	5.46
MBR02a	Resin (LHPC4121)	441,660	46	20,316	10.16
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11
VSXH-2200	VE Resin (VSXH-2200)	11,500	46	529	0.26
Total:		753,740		34,672	17.34

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,604	214	557	0.28
Total:		2,604		557	0.28

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	20,500	54	1,107	0.55
Total:		22,420		1,211	0.61

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	72,140	36.07

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	22,687	0.000	0.0	0
Total:		22,687			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	14,922	0.298	131.2	1,957
100RH540	Regal Gelcoat (100RH540)	572	0.320	147.6	84
100YH895	California Yellow Gelcoat (100YH895)	792	0.323	150.3	119
200LK202	Black Barrier Coat (200LK202)	37,140	0.300	132.6	4,924
5788C90279	Patch Aid Reducer (5788C90279)	41	0.558	375.4	15
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	0.317	145.2	181
5799B90020	Aztec Black Gelcoat (5799B90020)	23,970	0.316	144.4	3,460
5799E90056	Charcoal Gelcoat (5799E90056)	1,170	0.315	144.2	169
5799L90035	Ca Yellow Gelcoat (5799L90035)	358	0.328	154.4	55
5799R90052	Regal Gelcoat (5799R90052)	4,455	0.319	147.1	655
963LK160	Dark Blue Gelcoat (963LK160)	4,570	0.286	122.1	558
963LK188	Midnight Blue Gelcoat (963LK188)	1,752	0.291	126.1	221
963RK139	Rueben Gelcoat (963RK139)	1,445	0.287	123.0	178
963RK140	Regal Gelcoat (963RK140)	5,592	0.288	123.7	692
963WH671	White Gelcoat (963WH671)	4,434	0.302	134.0	594
963XA221	Marine Clear Gelcoat (963XA221)	4,675	0.447	258.9	1,210
967BK150	Black Barrier Coat (967BK150)	43,803	0.321	148.8	6,517

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: December 2008</b>	
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991GH359	Polo Green Gelcoat (991GH359)	795	0.328	153.6	122
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169
991NH788	Brown Gelcoat (991NH788)	1,639	0.318	146.4	240
991PK105	Black Iris Gelcoat (991PK105)	676	0.312	141.8	96
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	0.302	133.7	347
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	0.307	138.0	187
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	0.305	136.2	144
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	0.311	140.8	79
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	3,014	0.308	138.8	418
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	746	0.328	153.7	115
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	895	0.305	136.6	122
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,293	0.304	135.9	176
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991WH423)	51,100	0.329	154.4	7,892
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	1,709	0.306	137.3	235
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08a	Armorcote Regal Gelcoat (991RK112)	540	0.311	140.5	76

**Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report** **12 Months Ending: December 2008**

MBG08b	Armorcote Sangrial Gelcoat (991RK118)	342	0.308	138.8	47
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	0.314	143.2	80
Total:		224,527			32,634
Weighted Average MACT Model Point Value:		145.3			
Intermediate MACT Model Point Value (lbs):		32,634			

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	58,660	0.348	45.1	2,645
MBR02	Resin (LHPC3523)	237,320	0.316	36.2	8,588
MBR02a	Resin (LHPC4121)	441,660	0.316	36.2	15,982
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	11,500	0.349	45.3	520
Total:		753,740			27,906
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		27,906			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,604	0.358	178.7	465
Total:		2,604			465
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		465			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	20,500	0.280	27.4	563

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>	<b>12 Months Ending: December 2008</b>
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Total:	22,420	669
Weighted Average MACT Model Point Value:	29.9	
Intermediate MACT Model Point Value (lbs):	669	

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	61,675	30.84

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	18,636	0	0	0.00
Total:		18,636		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	13,512	159	2,148	1.07
200LK202	Black Barrier Coat (200LK202)	37,140	159	5,905	2.95
5788C90279	Patch Aid Reducer (5788C90279)	41	159	7	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	159	198	0.10
5799B90020	Aztec Black Gelcoat (5799B90020)	23,970	159	3,811	1.91
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	159	236	0.12
5799L90035	Ca Yellow Gelcoat (5799L90035)	448	159	71	0.04
5799R90052	Regal Gelcoat (5799R90052)	4,545	159	723	0.36
963LK160	Dark Blue Gelcoat (963LK160)	3,787	159	602	0.30
963LK188	Midnight Blue Gelcoat (963LK188)	974	159	155	0.08
963RK139	Rueben Gelcoat (963RK139)	1,201	159	191	0.10
963RK140	Regal Gelcoat (963RK140)	3,529	159	561	0.28
963WH671	White Gelcoat (963WH671)	6,604	159	1,050	0.53
963XA221	Marine Clear Gelcoat (963XA221)	4,515	159	718	0.36
967BK150	Black Barrier Coat (967BK150)	32,693	159	5,198	2.60
991GH359	Polo Green Gelcoat (991GH359)	795	159	126	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,639	159	261	0.13
991PK105	Black Iris Gelcoat (991PK105)	676	159	107	0.05
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	159	412	0.21
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	159	216	0.11
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	159	168	0.08
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	159	89	0.04
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,284	159	363	0.18



**Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit** **12 Months Ending: January 2009**

MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	895	159	142	0.07
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,187	159	189	0.09
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991WH423)	44,744	159	7,114	3.56
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	159	152	0.08
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	303	159	48	0.02
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	159	88	0.04
<b>Total:</b>		<b>200,011</b>		<b>31,802</b>	<b>15.90</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	49,000	46	2,254	1.13
MBR02	Resin (LHPC3523)	118,620	46	5,457	2.73
MBR02a	Resin (LHPC4121)	441,660	46	20,316	10.16
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11
VSXH-2200	VE Resin (VSXH-2200)	10,500	46	483	0.24
<b>Total:</b>		<b>624,380</b>		<b>28,721</b>	<b>14.36</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,199	214	471	0.24
<b>Total:</b>		<b>2,199</b>		<b>471</b>	<b>0.24</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	20,500	54	1,107	0.55
<b>Total:</b>		<b>22,420</b>		<b>1,211</b>	<b>0.61</b>

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	62,204	31.10

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	18,636	0.000	0.0	0
Total:		18,636			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	13,512	0.298	131.2	1,772
200LK202	Black Barrier Coat (200LK202)	37,140	0.300	132.6	4,924
5788C90279	Patch Aid Reducer (5788C90279)	41	0.558	375.4	15
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	0.317	145.2	181
5799B90020	Aztec Black Gelcoat (5799B90020)	23,970	0.316	144.4	3,460
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	0.315	144.2	214
5799L90035	Ca Yellow Gelcoat (5799L90035)	448	0.328	154.4	69
5799R90052	Regal Gelcoat (5799R90052)	4,545	0.319	147.1	668
963LK160	Dark Blue Gelcoat (963LK160)	3,787	0.286	122.1	462
963LK188	Midnight Blue Gelcoat (963LK188)	974	0.291	126.1	123
963RK139	Rueben Gelcoat (963RK139)	1,201	0.287	123.0	148
963RK140	Regal Gelcoat (963RK140)	3,529	0.288	123.7	437
963WH671	White Gelcoat (963WH671)	6,604	0.302	134.0	885
963XA221	Marine Clear Gelcoat (963XA221)	4,515	0.447	258.9	1,169
967BK150	Black Barrier Coat (967BK150)	32,693	0.321	148.8	4,864
991GH359	Polo Green Gelcoat (991GH359)	795	0.328	153.6	122
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: January 2009</b>	
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991NH788	Brown Gelcoat (991NH788)	1,639	0.318	146.4	240
991PK105	Black Iris Gelcoat (991PK105)	676	0.312	141.8	96
9EXFB379	Dark Blue Gelcoat (9EXFB379)	2,593	0.302	133.7	347
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	1,356	0.307	138.0	187
9EXFB389	CA Yellow Gelcoat (9EXFB389)	1,055	0.305	136.2	144
9EXFB395	Charcoal Gelcoat (9EXFB395)	561	0.311	140.8	79
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,284	0.308	138.8	317
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	895	0.305	136.6	122
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,187	0.304	135.9	161
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991VH423)	44,744	0.329	154.4	6,911
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	0.306	137.3	131
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	303	0.308	138.8	42
MBG08c	Armorcote Pink Gelcoat (991RK124)	556	0.314	143.2	80

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Total:	200,011	29,039
Weighted Average MACT Model Point Value:	145.2	
Intermediate MACT Model Point Value (lbs):	29,039	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	49,000	0.348	45.1	2,210
MBR02	Resin (LHPC3523)	118,620	0.316	36.2	4,292
MBR02a	Resin (LHPC4121)	441,660	0.316	36.2	15,982
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	10,500	0.349	45.3	475
Total:		624,380			23,130
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		23,130			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,199	0.358	178.7	393
Total:		2,199			393
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		393			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	20,500	0.280	27.4	563
Total:		22,420			669
Weighted Average MACT Model Point Value:		29.9			
Intermediate MACT Model Point Value (lbs):		669			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	53,231	26.62

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	16,205	0	0	0.00
Total:		16,205		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	9,842	159	1,565	0.78
200LK202	Black Barrier Coat (200LK202)	37,140	159	5,905	2.95
5788C90279	Patch Aid Reducer (5788C90279)	49	159	8	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	159	198	0.10
5799B90020	Aztec Black Gelcoat (5799B90020)	28,060	159	4,462	2.23
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	159	236	0.12
5799L90035	Ca Yellow Gelcoat (5799L90035)	538	159	86	0.04
5799R90052	Regal Gelcoat (5799R90052)	4,545	159	723	0.36
963LK160	Dark Blue Gelcoat (963LK160)	3,940	159	626	0.31
963LK188	Midnight Blue Gelcoat (963LK188)	1,026	159	163	0.08
963RK139	Rueben Gelcoat (963RK139)	747	159	119	0.06
963RK140	Regal Gelcoat (963RK140)	2,512	159	399	0.20
963WH671	White Gelcoat (963WH671)	11,184	159	1,778	0.89
963XA221	Marine Clear Gelcoat (963XA221)	2,474	159	393	0.20
967BK150	Black Barrier Coat (967BK150)	28,653	159	4,556	2.28
991GH359	Polo Green Gelcoat (991GH359)	795	159	126	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,081	159	172	0.09
991PK105	Black Iris Gelcoat (991PK105)	534	159	85	0.04
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,765	159	281	0.14
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	276	159	44	0.02
9EXFB389	CA Yellow Gelcoat (9EXFB389)	335	159	53	0.03
9EXFB395	Charcoal Gelcoat (9EXFB395)	111	159	18	0.01
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,189	159	348	0.17

Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit				12 Months Ending: February 2009		
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Product Number	Product Name	Usage (lbs):	NESHAP EF	Pounds	Tons
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	986	159	157	0.08
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,187	159	189	0.09
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	159	206	0.10
MBG06	Armorcote White Gelcoat (991WH423)	37,762	159	6,004	3.00
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	159	152	0.08
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	303	159	48	0.02
MBG08c	Armorcote Pink Gelcoat (991RK124)	510	159	81	0.04
Total:		186,952		29,725	14.86

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	42,500	46	1,955	0.98
MBR02	Resin (LHPC3523)	118,980	46	5,473	2.74
MBR02a	Resin (LHPC4121)	402,240	46	18,503	9.25
VLER-4000	VE Resin (VLER-4000)	4,600	46	212	0.11
VSXH-2200	VE Resin (VSXH-2200)	11,000	46	506	0.25
Total:		579,320		26,649	13.32

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,199	214	471	0.24
Total:		2,199		471	0.24

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	20,500	54	1,107	0.55
Total:		22,420		1,211	0.61

	Pounds	Tons
NESHAP HAP Limit:	58,055	29.03



*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	16,205	0.000	0.0	0
Total:		16,205			0
Weighted Average MACT Model Point Value:		0.0			
Intermediate MACT Model Point Value (lbs):		0			

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	9,842	0.298	131.2	1,291
200LK202	Black Barrier Coat (200LK202)	37,140	0.300	132.6	4,924
5788C90279	Patch Aid Reducer (5788C90279)	49	0.558	375.4	18
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	0.317	145.2	181
5799B90020	Aztec Black Gelcoat (5799B90020)	28,060	0.316	144.4	4,051
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	0.315	144.2	214
5799L90035	Ca Yellow Gelcoat (5799L90035)	538	0.328	154.4	83
5799R90052	Regal Gelcoat (5799R90052)	4,545	0.319	147.1	668
963LK160	Dark Blue Gelcoat (963LK160)	3,940	0.286	122.1	481
963LK188	Midnight Blue Gelcoat (963LK188)	1,026	0.291	126.1	129
963RK139	Rueben Gelcoat (963RK139)	747	0.287	123.0	92
963RK140	Regal Gelcoat (963RK140)	2,512	0.288	123.7	311
963WH671	White Gelcoat (963WH671)	11,184	0.302	134.0	1,499
963XA221	Marine Clear Gelcoat (963XA221)	2,474	0.447	258.9	640
967BK150	Black Barrier Coat (967BK150)	28,653	0.321	148.8	4,263
991GH359	Polo Green Gelcoat (991GH359)	795	0.328	153.6	122
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending: February 2009</b>	
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991NH788	Brown Gelcoat (991NH788)	1,081	0.318	146.4	158
991PK105	Black Iris Gelcoat (991PK105)	534	0.312	141.8	76
9EXFB379	Dark Blue Gelcoat (9EXFB379)	1,765	0.302	133.7	236
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	276	0.307	138.0	38
9EXFB389	CA Yellow Gelcoat (9EXFB389)	335	0.305	136.2	46
9EXFB395	Charcoal Gelcoat (9EXFB395)	111	0.311	140.8	16
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,189	0.308	138.8	304
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	986	0.305	136.6	135
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	1,187	0.304	135.9	161
MBG05a	Armorcote Platinum Gelcoat (991NK124)	1,295	0.302	133.7	173
MBG06	Armorcote White Gelcoat (991WH423)	37,762	0.329	154.4	5,832
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	0.306	137.3	131
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	303	0.308	138.8	42
MBG08c	Armorcote Pink Gelcoat (991RK124)	510	0.314	143.2	73

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Total:	186,952	26,884
Weighted Average MACT Model Point Value:	143.8	
Intermediate MACT Model Point Value (lbs):	26,884	

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	42,500	0.348	45.1	1,917
MBR02	Resin (LHPC3523)	118,980	0.316	36.2	4,305
MBR02a	Resin (LHPC4121)	402,240	0.316	36.2	14,555
VLER-4000	VE Resin (VLER-4000)	4,600	0.320	37.2	171
VSXH-2200	VE Resin (VSXH-2200)	11,000	0.349	45.3	498
Total:		579,320			21,446
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		21,446			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,199	0.358	178.7	393
Total:		2,199			393
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		393			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	20,500	0.280	27.4	563
Total:		22,420			669
Weighted Average MACT Model Point Value:		29.9			
Intermediate MACT Model Point Value (lbs):		669			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	49,392	24.70

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	16,205	0	0	0.00
Total:		16,205		0	0.00

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
100BK201	Jet Black Gelcoat (100BK201)	7,492	159	1,191	0.60
200LK202	Black Barrier Coat (200LK202)	37,140	159	5,905	2.95
5788C90279	Patch Aid Reducer (5788C90279)	49	159	8	0.00
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	159	198	0.10
5799B90020	Aztec Black Gelcoat (5799B90020)	28,975	159	4,607	2.30
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	159	236	0.12
5799L90035	Ca Yellow Gelcoat (5799L90035)	538	159	86	0.04
5799R90052	Regal Gelcoat (5799R90052)	4,545	159	723	0.36
963LK160	Dark Blue Gelcoat (963LK160)	3,688	159	586	0.29
963LK188	Midnight Blue Gelcoat (963LK188)	1,026	159	163	0.08
963RK139	Rueben Gelcoat (963RK139)	462	159	73	0.04
963RK140	Regal Gelcoat (963RK140)	1,147	159	182	0.09
963WH671	White Gelcoat (963WH671)	13,464	159	2,141	1.07
963XA221	Marine Clear Gelcoat (963XA221)	2,274	159	362	0.18
967BK150	Black Barrier Coat (967BK150)	23,603	159	3,753	1.88
991GH359	Polo Green Gelcoat (991GH359)	795	159	126	0.06
991GH369	Brite Green Gelcoat (991GH369)	1,117	159	178	0.09
991NH788	Brown Gelcoat (991NH788)	1,081	159	172	0.09
991PK105	Black Iris Gelcoat (991PK105)	438	159	70	0.03
9EXFB379	Dark Blue Gelcoat (9EXFB379)	616	159	98	0.05
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	276	159	44	0.02
9EXFB389	CA Yellow Gelcoat (9EXFB389)	200	159	32	0.02
9EXFB395	Charcoal Gelcoat (9EXFB395)	111	159	18	0.01
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,094	159	333	0.17

<b>Malibu Boats Merced Plant: NESHAP Equation 1 HAP Limit</b>				<b>12 Months Ending:</b>	<b>March 2009</b>
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MBG02a	Armorcote Marble Gelcoat (991AK139)	543	159	86	0.04
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	986	159	157	0.08
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	159	32	0.02
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	995	159	158	0.08
MBG05a	Armorcote Platinum Gelcoat (991NK124)	546	159	87	0.04
MBG06	Armorcote White Gelcoat (991WH423)	33,140	159	5,269	2.63
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	159	152	0.08
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	159	194	0.10
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	159	55	0.03
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	203	159	32	0.02
MBG08c	Armorcote Pink Gelcoat (991RK124)	361	159	57	0.03
<b>Total:</b>		<b>173,358</b>		<b>27,564</b>	<b>13.78</b>

*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
LSPK-2221	Polyester Resin (LSPK-2221)	38,000	46	1,748	0.87
MBR02	Resin (LHPC3523)	118,980	46	5,473	2.74
MBR02a	Resin (LHPC4121)	361,980	46	16,651	8.33
VLER-4000	VE Resin (VLER-4000)	3,700	46	170	0.09
VSXH-2200	VE Resin (VSXH-2200)	11,000	46	506	0.25
<b>Total:</b>		<b>533,660</b>		<b>24,548</b>	<b>12.27</b>

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
965BK183	Black VE Tooling (965BK183)	2,199	214	471	0.24
<b>Total:</b>		<b>2,199</b>		<b>471</b>	<b>0.24</b>

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	NESHAP EF	Intermediate HAP Limit	
				Pounds	Tons
040-8094	CCP Optiplus Resin (040-8094)	1,920	54	104	0.05
1055	Tooling Resin (1055)	20,500	54	1,107	0.55
Total:		22,420		1,211	0.61

	<b>Pounds</b>	<b>Tons</b>
NESHAP HAP Limit:	53,794	26.90

*Carpet and Fabric Adhesive*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	16,205	0.000	0.0	0
Total:		16,205			0
Weighted Average MACT Model Point Value:			0.0		
Intermediate MACT Model Point Value (lbs):			0		

*Production Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
100BK201	Jet Black Gelcoat (100BK201)	7,492	0.298	131.2	983
200LK202	Black Barrier Coat (200LK202)	37,140	0.300	132.6	4,924
5788C90279	Patch Aid Reducer (5788C90279)	49	0.558	375.4	18
5799A90073	Midnight Blue Gelcoat (5799A90073)	1,245	0.317	145.2	181
5799B90020	Aztec Black Gelcoat (5799B90020)	28,975	0.316	144.4	4,183
5799E90056	Charcoal Gelcoat (5799E90056)	1,485	0.315	144.2	214
5799L90035	Ca Yellow Gelcoat (5799L90035)	538	0.328	154.4	83
5799R90052	Regal Gelcoat (5799R90052)	4,545	0.319	147.1	668
963LK160	Dark Blue Gelcoat (963LK160)	3,688	0.286	122.1	450
963LK188	Midnight Blue Gelcoat (963LK188)	1,026	0.291	126.1	129
963RK139	Rueben Gelcoat (963RK139)	462	0.287	123.0	57
963RK140	Regal Gelcoat (963RK140)	1,147	0.288	123.7	142
963WH671	White Gelcoat (963WH671)	13,464	0.302	134.0	1,804
963XA221	Marine Clear Gelcoat (963XA221)	2,274	0.447	258.9	589
967BK150	Black Barrier Coat (967BK150)	23,603	0.321	148.8	3,512
991GH359	Polo Green Gelcoat (991GH359)	795	0.328	153.6	122
991GH369	Brite Green Gelcoat (991GH369)	1,117	0.325	151.7	169

<b>Malibu Boats Merced Plant: NESHAP MACT Point Value Compliance Report</b>				<b>12 Months Ending:</b>	<b>March 2009</b>
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991NH788	Brown Gelcoat (991NH788)	1,081	0.318	146.4	158
991PK105	Black Iris Gelcoat (991PK105)	438	0.312	141.8	62
9EXFB379	Dark Blue Gelcoat (9EXFB379)	616	0.302	133.7	82
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	276	0.307	138.0	38
9EXFB389	CA Yellow Gelcoat (9EXFB389)	200	0.305	136.2	27
9EXFB395	Charcoal Gelcoat (9EXFB395)	111	0.311	140.8	16
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	2,094	0.308	138.8	291
MBG02a	Armorcote Marble Gelcoat (991AK139)	543	0.320	147.8	80
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	986	0.305	136.6	135
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	200	0.319	147.0	29
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	995	0.304	135.9	135
MBG05a	Armorcote Platinum Gelcoat (991NK124)	546	0.302	133.7	73
MBG06	Armorcote White Gelcoat (991WH423)	33,140	0.329	154.4	5,118
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	957	0.306	137.3	131
MBG07a	Armorcote Orange Gelcoat (991YK132)	1,219	0.306	137.1	167
MBG08	Armorcote Ruben Gelcoat (991RK111)	347	0.309	139.7	48
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	203	0.308	138.8	28
MBG08c	Armorcote Pink Gelcoat (991RK124)	361	0.314	143.2	52

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Total:	173,358	24,901
Weighted Average MACT Model Point Value:	143.6	
Intermediate MACT Model Point Value (lbs):	24,901	



*Production Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
LSPK-2221	Polyester Resin (LSPK-2221)	38,000	0.348	45.1	1,714
MBR02	Resin (LHPC3523)	118,980	0.316	36.2	4,305
MBR02a	Resin (LHPC4121)	361,980	0.316	36.2	13,099
VLER-4000	VE Resin (VLER-4000)	3,700	0.320	37.2	138
VSXH-2200	VE Resin (VSXH-2200)	11,000	0.349	45.3	498
Total:		533,660			19,753
Weighted Average MACT Model Point Value:		37.0			
Intermediate MACT Model Point Value (lbs):		19,753			

*Tooling Gelcoat, Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
965BK183	Black VE Tooling (965BK183)	2,199	0.358	178.7	393
Total:		2,199			393
Weighted Average MACT Model Point Value:		178.7			
Intermediate MACT Model Point Value (lbs):		393			

*Tooling Resin, Non-Atomized*

Product Number	Product Name	Usage (lbs):	HAP Content	MACT PV	Usage * MACT PV/1000
040-8094	CCP Optiplus Resin (040-8094)	1,920	0.382	55.7	107
1055	Tooling Resin (1055)	20,500	0.280	27.4	563
Total:		22,420			669
Weighted Average MACT Model Point Value:		29.9			
Intermediate MACT Model Point Value (lbs):		669			

	<b>Pounds</b>	<b>Tons</b>
Final MACT Model Point Value:	45,717	22.86

called  
Patch  
Reducer

Product Number	Product Name	Category
✓ 040-8094	CCP Optiplus Resin (040-8094)	resin
✓ 100BK201	Jet Black Gelcoat (100BK201)	gelcoat
✓ 100RH540	Regal Gelcoat (100RH540)	gelcoat
✓ 100YH895	California Yellow Gelcoat (100YH895)	gelcoat
✓ 1055	Tooling Resin (1055)	resin
✓ 200LK202	Black Barrier Coat (200LK202)	gelcoat
✓ 3MFinesse	3M Finesse-it II Finishing Material	polish
✓ 3MMUPaste	3M Marine Ultra Paste Wax	wax
✓ 5788C90007	Surfacing Agent 85-X3 (5788C90007)	surfacing agent
✓ 5788C90008	Patch Booster (5788C90008)	patch booster
✓ 5788C90279	Patch Aid Reducer (5788C90279)	reducer
✓ 5799A90073	Midnight Blue Gelcoat (5799A90073)	gelcoat
✓ 5799B90020	Aztec Black Gelcoat (5799B90020)	gelcoat
✓ 5799E90056	Charcoal Gelcoat (5799E90056)	gelcoat
✓ 5799L90035	Ca Yellow Gelcoat (5799L90035)	gelcoat
✓ 5799R90052	Regal Gelcoat (5799R90052)	gelcoat
✓ 945B023	Polycor Conductive Tooling (945B023)	gelcoat
✓ 953BK162	Black Gelcoat (953BK162)	gelcoat
✓ 953LK160	Dark Blue Gelcoat (953LK160)	gelcoat
✓ 963LK160	Dark Blue Gelcoat (963LK160)	gelcoat
✓ 963LK188	Midnight Blue Gelcoat (963LK188)	gelcoat
✓ 963RK139	Rueben Gelcoat (963RK139)	gelcoat
✓ 963RK140	Regal Gelcoat (963RK140)	gelcoat
✓ 963WH671	White Gelcoat (963WH671)	gelcoat
✓ 963XA220	Armorflex Marine Clear Gelcoat (963XA220)	gelcoat
✓ 963XA221	Marine Clear Gelcoat (963XA221)	gelcoat
✓ 965BK183	Black VE Tooling (965BK183)	gelcoat
✓ 967BK150	Black Barrier Coat (967BK150)	gelcoat
✓ 970XJ037	Patchaid (970XJ037)	repair patching
✓ 991GH359	Polo Green Gelcoat (991GH359)	gelcoat
✓ 991GH369	Brite Green Gelcoat (991GH369)	gelcoat
✓ 991NH788	Brown Gelcoat (991NH788)	gelcoat
✓ 991PK105	Black Iris Gelcoat (991PK105)	gelcoat
✓ 9EXFB379	Dark Blue Gelcoat (9EXFB379)	gelcoat
✓ 9EXFB385	Midnight Blue Gelcoat (9EXFB385)	gelcoat
✓ 9EXFB389	CA Yellow Gelcoat (9EXFB389)	gelcoat
✓ 9EXFB395	Charcoal Gelcoat (9EXFB395)	gelcoat
✓ ADH4011	Conbond (ADH4011)	assembly adhesive
✓ FB100	Fastbond Foam Adhesive 100, Lavender	assembly adhesive
✓ Flex-Z	Flex-Z 1, 2, 3, 4, 5 & 6	mold release
✓ IPSAdh	IPS Adhesive & Activator	assembly adhesive
✓ LSPK-2221	Polyester Resin (LSPK-2221)	resin
✓ MA300	ITW Plexus Adhesive (MA300)	assembly adhesive
✓ MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	assembly adhesive
✓ MBG01	Black Barrier Gelcoat (967BJ244)	gelcoat
✓ MBG02	Armorcote Moonbeam Gelcoat (991AK138)	gelcoat
✓ MBG02a	Armorcote Marble Gelcoat (991AK139)	gelcoat

Product Number	Product Name	Category
✓ MBG02b	Armorcote Charcoal Gelcoat (991AK140)	gelcoat
✓ MBG03	Armorcote Black Gelcoat (991BK139)	gelcoat
✓ MBG03a	Armorcote Black Gelcoat (991BK136)	gelcoat
✓ MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	gelcoat
✓ MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	gelcoat
✓ MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	gelcoat
✓ MBG05	Armorcote Light Graphite Gelcoat (991NK123)	gelcoat
✓ MBG05a	Armorcote Platinum Gelcoat (991NK124)	gelcoat
✓ MBG05b	Armorcote Sandstone Gelcoat (991NK125)	gelcoat
✓ MBG05c	Armorcote Suede Gelcoat (991NK130)	gelcoat
✓ MBG06	Armorcote White Gelcoat (991WH423)	gelcoat
✓ MBG07	Armorcote CA Yellow Gelcoat (991YK125)	gelcoat
✓ MBG07a	Armorcote Orange Gelcoat (991YK132)	gelcoat
✓ MBG08	Armorcote Ruben Gelcoat (991RK111)	gelcoat
✓ MBG08a	Armorcote Regal Gelcoat (991RK112)	gelcoat
✓ MBG08b	Armorcote Sangrial Gelcoat (991RK118)	gelcoat
✓ MBG08c	Armorcote Pink Gelcoat (991RK124)	gelcoat
✓ MBG0a	Polycor HG Green Tooling (945GA104)	gelcoat
✓ MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	gelcoat
✓ MBG0b1	Buffback Black Gelcoat (954BJ232)	gelcoat
✓ MBM01	MEKP9 (Clear & Red)	catalyst
✓ MBM02	Aquawash (095-0040)	clean uncured resins and gelcoats
<del>1-2 rec'd</del> ✓ MBM02a	<del>Flex-Z 1, 2, 3, 4, 5 &amp; 6</del>	<del>mold release</del>
✓ MBM02b	Zyvax Surface Cleaner	mold cleaner
✓ MBM02c	Zyvax Sealer GP	mold sealer
✓ MBM03	Patchaid (970XJ037)	repair patching
✓ MBP01	EZ Bond Adhesive (5787W00077)	assembly adhesive
✓ MBR02	Resin (LHPC3523)	resin
✓ MBR02a	Resin (LHPC4121)	resin
✓ MBR03	Stypol (LSPA-2201)	resin
✓ MBR04	Eastman Resin (733-2246)	resin
✓ VLER-4000	VE Resin (VLER-4000)	resin
✓ VSXH-2200	VE Resin (VSXH-2200)	resin
<del>1-2 rec'd</del> ✓ Zyv-GP	<del>Zyvax Sealer GP</del>	<del>mold sealer</del>
<del>1-2 rec'd</del> ✓ Zyv-SC	<del>Zyvax Surface Cleaner</del>	<del>mold cleaner</del>

Malibu Boats -- Merced Plant  
2005 to Present Actual Emissions

Month	Month VOC (lbs)	Quarter VOC (lbs)	Quarter VOC (lbs)
January 2005	7,830		
February 2005	8,335		
March 2005	9,454	25,619	
April 2005	7,238		
May 2005	9,313		
June 2005	7,168	23,719	
July 2005	5,496		
August 2005	9,975		
September 2005	8,495	23,966	
October 2005	6,945		
November 2005	7,449		
December 2005	8,749	23,143	23,143
January 2006	7,435		
February 2006	8,760		
March 2006	10,509	26,704	26,704
April 2006	8,045		
May 2006	8,118		
June 2006	10,482	26,645	26,645
July 2006	6,840		
August 2006	9,220		
September 2006	8,765	24,825	24,825
October 2006	10,035		
November 2006	10,342		
December 2006	10,036	30,413	30,413
January 2007	12,035		
February 2007	11,673		
March 2007	13,084	36,792	36,792
April 2007	11,233		
May 2007	12,281		
June 2007	8,807	32,321	32,321
July 2007	5,817		
August 2007	6,489		
September 2007	7,927	20,233	20,233
October 2007	8,108		
November 2007	7,554		
December 2007	5,128	20,790	20,790
January 2008	11,660		
February 2008	7,699		
March 2008	5,247	24,606	
April 2008	8,417		
May 2008	6,995		
June 2008	2,868	18,280	
July 2008	3,177		
August 2008	5,401		
September 2008	6,303	14,881	
October 2008	6,127		
November 2008	2,916		
December 2008	3,288	12,331	
January 2009	2,155		
February 2009	3,247		
March 2009	1,174	6,576	
April 2009	1,869		
May 2009	123		
June 2009	128	2,120	
July 2009	24		
August 2009	85		
September 2009	57	166	
October 2009	58		
November 2009	0		
December 2009	34	92	
January 2010	36		
February 2010	73		
Total 2006 & 2007			241,866
Average Qtr 2006 & 2007			30,233
Average Qtr Re-Permit (1.875 tpy)			938
Average Qtr ERC			29,296

Per RG - no need to update bl data past Q4 of 2009

VOC Emissions (lb)	8 qtr	
Q1 2005	25,619	
Q2 2005	23,719	
Q3 2005	23,966	
Q4 2005	23,143	
Q1 2006	26,704	
Q2 2006	26,645	
Q3 2006	24,825	
Q4 2006	30,413	-5,918
Q1 2007	36,792	-7,315
Q2 2007	32,321	-8,390
Q3 2007	20,233	-7,923
Q4 2007	20,790	-7,629
Q1 2008	24,606	-7,367
Q2 2008	18,280	-6,321
Q3 2008	14,881	-5,078
Q4 2008	12,331	-2,818
Q1 2009	6,576	959
Q2 2009	2,120	4,734
Q3 2009	166	7,242
Q4 2009	92	9,830
<b>5 yr Avg.</b>	<b>19,711</b>	

OK to ~~but~~ estimate 100 hours

BL Period = Q2 2007 - Q1 2009

HAE (Lb)

	Q1	Q2	Q3	Q4
2007		32,321	20,233	20,790
2008	24,606	18,280	14,881	12,331
2009	6,576			
Avg	15,591	25,301	17,557	16,561

PE

$$15 \frac{\text{Lb}}{\text{day}} \times 5 \frac{\text{days}}{\text{wk}} \times 50 \frac{\text{wk}}{\text{yr}} = 3,750 \text{ Lb/yr} =$$

Q1 = 925 Lb @ 90 days  
 Q2 = 935 Lb @ 91 days  
 Q3 = 945 Lb @ 92 days  
 Q4 = 945 Lb @ 92 days

Q1	Q2	Q3	Q4
15,591	25,301	17,557	16,561
-925	-935	-945	-945
14,666	24,366	16,612	15,616

AAQA

1,467	2,437	1,661	1,562
<u>Left over</u>			
13,199	2,193	14,951	14,054

Product Number	Product Name	Category	Rule 4684, Table 1	Permit ID
040-8094	CCP Optiplus Resin (040-8094)	resin	nonatomized tooling resin	3
100BK201	Jet Black Gelcoat (100BK201)	gelcoat	pigmented gelcoat	1 & 2
100RH540	Regal Gelcoat (100RH540)	gelcoat	pigmented gelcoat	1 & 2
100YH895	California Yellow Gelcoat (100YH895)	gelcoat	pigmented gelcoat	1 & 2
1055	Tooling Resin (1055)	resin	nonatomized tooling resin	3
200LK202	Black Barrier Coat (200LK202)	gelcoat	pigmented gelcoat	1 & 2
3MFInesse	3M Finesse-It II Finishing Material	polish	not applicable	3
3MMUPaste	3M Marine Ultra Paste Wax	wax	not applicable	3
5788C90007	Surfacing Agent 85-X3 (5788C90007)	surfacing agent	not applicable	3
5788C90008	Patch Booster (5788C90008)	patch booster	not applicable	3
5788C90279	Patch Aid Reducer (5788C90279)	reducer	not applicable	3
5799A90073	Midnight Blue Gelcoat (5799A90073)	gelcoat	pigmented gelcoat	1 & 2
5799B90070	Aztec Black Gelcoat (5799B90070)	gelcoat	pigmented gelcoat	1 & 2
5799F90056	Charcoal Gelcoat (5799F90056)	gelcoat	pigmented gelcoat	1 & 2
5799L90035	Ca Yellow Gelcoat (5799L90035)	gelcoat	pigmented gelcoat	1 & 2
5799R90052	Regal Gelcoat (5799R90052)	gelcoat	pigmented gelcoat	1 & 2
945B023	Polycor Conductive Tooling (945B023)	gelcoat	tooling gelcoat	4
953BK162	Black Gelcoat (953BK162)	gelcoat	pigmented gelcoat	1 & 2
953LK160	Dark Blue Gelcoat (953LK160)	gelcoat	pigmented gelcoat	1 & 2
963LK160	Dark Blue Gelcoat (963LK160)	gelcoat	pigmented gelcoat	1 & 2
963LK188	Midnight Blue Gelcoat (963LK188)	gelcoat	pigmented gelcoat	1 & 2
963RK139	Rueben Gelcoat (963RK139)	gelcoat	pigmented gelcoat	1 & 2
963RK140	Regal Gelcoat (963RK140)	gelcoat	pigmented gelcoat	1 & 2
963WII671	White Gelcoat (963WII671)	gelcoat	pigmented gelcoat	1 & 2
963XA220	Armorflex Marine Clear Gelcoat (963XA220)	gelcoat	clear gelcoat	1 & 2
963XA221	Marine Clear Gelcoat (963XA221)	gelcoat	clear gelcoat	1 & 2
965BK183	Black VL Tooling (965BK183)	gelcoat	tooling gelcoat	4
967BK150	Black Barrier Coat (967BK150)	gelcoat	pigmented gelcoat	1 & 2
970XJ037	Patchaid (970XJ037)	repair patching	not applicable	3
991GH359	Polo Green Gelcoat (991GH359)	gelcoat	pigmented gelcoat	1 & 2
991GH369	Brite Green Gelcoat (991GH369)	gelcoat	pigmented gelcoat	1 & 2
991NH788	Brown Gelcoat (991NH788)	gelcoat	pigmented gelcoat	1 & 2
991PK105	Black Iris Gelcoat (991PK105)	gelcoat	pigmented gelcoat	1 & 2
9EXFB379	Dark Blue Gelcoat (9EXFB379)	gelcoat	pigmented gelcoat	1 & 2
9EXFB385	Midnight Blue Gelcoat (9EXFB385)	gelcoat	pigmented gelcoat	1 & 2
9EXFB389	CA Yellow Gelcoat (9EXFB389)	gelcoat	pigmented gelcoat	1 & 2
9EXFB395	Charcoal Gelcoat (9EXFB395)	gelcoat	pigmented gelcoat	1 & 2
ADH4011	Conbond (ADH4011)	assembly adhesive	not applicable	3
FB100	Fastbond Foam Adhesive 100, Lavender	assembly adhesive	not applicable	3
Flex-Z	Flex-Z 1, 2, 3, 4, 5 & 6	mold release	not applicable	3
IPSAdh	IPS Adhesive & Activator	assembly adhesive	not applicable	3
LSPK-2221	Polyester Resin (LSPK-2221)	resin	nonatomized production resin	3 & 5
MA300	ITW Plexus Adhesive (MA300)	assembly adhesive	not applicable	3
MBA01	Westech HS-MAC18, HP-MAC18 & MPEA	assembly adhesive	not applicable	3
MBG01	Black Barrier Gelcoat (967RJ244)	gelcoat	pigmented gelcoat	1 & 2
MBG02	Armorcote Moonbeam Gelcoat (991AK138)	gelcoat	pigmented gelcoat	1 & 2
MBG02a	Armorcote Marble Gelcoat (991AK139)	gelcoat	pigmented gelcoat	1 & 2
MBG02b	Armorcote Charcoal Gelcoat (991AK140)	gelcoat	pigmented gelcoat	1 & 2
MBG03	Armorcote Black Gelcoat (991BK139)	gelcoat	pigmented gelcoat	1 & 2
MBG03a	Armorcote Black Gelcoat (991BK136)	gelcoat	pigmented gelcoat	1 & 2
MBG04	Armorcote Vapor Blue Gelcoat (991LK123)	gelcoat	pigmented gelcoat	1 & 2
MBG04a	Armorcote Midnight Blue Gelcoat (991LK141)	gelcoat	pigmented gelcoat	1 & 2
MBG04b	Armorcote Dark Blue Gelcoat (991LK142)	gelcoat	pigmented gelcoat	1 & 2
MBG05	Armorcote Light Graphite Gelcoat (991NK123)	gelcoat	pigmented gelcoat	1 & 2
MBG05a	Armorcote Platinum Gelcoat (991NK124)	gelcoat	pigmented gelcoat	1 & 2
MBG05b	Armorcote Sandstone Gelcoat (991NK125)	gelcoat	pigmented gelcoat	1 & 2
MBG05c	Armorcote Suede Gelcoat (991NK130)	gelcoat	pigmented gelcoat	1 & 2
MBG06	Armorcote White Gelcoat (991WII423)	gelcoat	pigmented gelcoat	1 & 2
MBG07	Armorcote CA Yellow Gelcoat (991YK125)	gelcoat	pigmented gelcoat	1 & 2
MBG07a	Armorcote Orange Gelcoat (991YK132)	gelcoat	pigmented gelcoat	1 & 2
MBG08	Armorcote Ruben Gelcoat (991RK111)	gelcoat	pigmented gelcoat	1 & 2
MBG08a	Armorcote Regal Gelcoat (991RK117)	gelcoat	pigmented gelcoat	1 & 2
MBG08b	Armorcote Sangrial Gelcoat (991RK118)	gelcoat	pigmented gelcoat	1 & 2
MBG08c	Armorcote Pink Gelcoat (991RK124)	gelcoat	pigmented gelcoat	1 & 2
MBG0a	Polycor HG Green Tooling (945GA104)	gelcoat	tooling gelcoat	4
MBG0b	Buffback Dark Blue Gelcoat (954LJ261)	gelcoat	pigmented gelcoat	1 & 2
MBG0b1	Buffback Black Gelcoat (954BJ232)	gelcoat	pigmented gelcoat	1 & 2
MBM01	MEKP9 (Clear & Red)	catalyst	not applicable	1, 2 & 3
MBM02	Aquawash (095-0040)	clean uncured resins and gelcoats	not applicable	1, 2 & 3

Product Number	Product Name	Category	Rule 4684, Table 1	Permit ID
MBM02a	Flex-Z 1, 2, 3, 4, 5 & 6	mold release	not applicable	3
MBM02b	Zyvax Surface Cleaner	mold cleaner	not applicable	3
MBM02c	Zyvax Sealer GP	mold sealer	not applicable	3
MBM03	Patchaid (970XJ037)	repair patching	not applicable	3
MBP01	EZ Bond Adhesive (5787W00077)	assembly adhesive	not applicable	3
MBR02	Resin (LHPC3523)	resin	nonatomized production resin	3 & 5
MBR02a	Resin (LHPC4121)	resin	nonatomized production resin	3 & 5
MBR03	Stypol (LSPA-2201)	resin	nonatomized production resin	3 & 5
MBR04	Lastman Resin (/33-2246)	resin	nonatomized production resin	3 & 5
VLER-4000	VE Resin (VLER-4000)	resin	nonatomized production resin	3 & 5
V5XH-2200	VF Resin (V5XH-2200)	resin	nonatomized production resin	3 & 5
Zyv GP	Zyvax Sealer GP	mold sealer	not applicable	3
Zyv SC	Zyvax Surface Cleaner	mold cleaner	not applicable	3





Date	N-3941-		
	1. 2 & 3	5	4
5/26/2007	-	-	-
5/27/2007	-	-	-
5/28/2007	246.33	99.84	96.07
5/29/2007	245.32	97.74	96.20
5/30/2007	244.64	90.85	96.50
5/31/2007	243.91	99.75	92.77
6/1/2007	244.86	97.29	86.14
6/2/2007	-	-	2.60
6/3/2007	-	-	-
6/4/2007	248.30	98.59	75.84
6/5/2007	239.80	91.15	87.46
6/6/2007	240.40	99.04	81.07
6/7/2007	233.74	90.45	88.23
6/8/2007	239.33	91.46	74.13
6/9/2007	-	-	15.43
6/10/2007	-	-	-
6/11/2007	224.58	92.24	89.29
6/12/2007	234.89	91.01	89.68
6/13/2007	231.70	95.81	85.13
6/14/2007	239.96	95.03	89.32
6/15/2007	244.76	98.04	73.05
6/16/2007	-	-	-
6/17/2007	-	-	-
6/18/2007	158.87	98.63	43.49
6/19/2007	146.73	95.68	37.52
6/20/2007	154.21	90.41	51.55
6/21/2007	169.37	95.19	10.99
6/22/2007	133.45	89.83	4.52
6/23/2007	-	-	-
6/24/2007	-	-	-
6/25/2007	201.66	99.29	23.04
6/26/2007	239.90	90.72	40.39
6/27/2007	181.25	94.08	66.49
6/28/2007	148.19	95.92	37.73
6/29/2007	194.60	89.80	57.60
6/30/2007	-	-	-
7/1/2007	-	-	-
7/2/2007	-	-	-
7/3/2007	-	-	-
7/4/2007	-	-	-
7/5/2007	-	-	-
7/6/2007	-	-	-
7/7/2007	-	-	-
7/8/2007	-	-	-
7/9/2007	195.83	99.09	34.31
7/10/2007	156.41	93.38	68.53
7/11/2007	141.14	90.47	45.80
7/12/2007	244.19	98.71	39.28
7/13/2007	154.53	98.19	37.90
7/14/2007	-	-	-
7/15/2007	-	-	-
7/16/2007	185.84	92.46	46.66
7/17/2007	180.51	92.23	77.25
7/18/2007	191.23	94.59	29.62
7/19/2007	149.14	90.49	32.75

Date	N-3941-		
	1. 2 & 3	5	4
7/20/2007	166.50	98.93	34.53
7/21/2007	-	-	-
7/22/2007	-	-	-
7/23/2007	176.51	91.23	81.24
7/24/2007	165.89	95.24	72.52
7/25/2007	187.61	94.81	69.89
7/26/2007	136.51	98.93	27.87
7/27/2007	183.44	96.05	28.69
7/28/2007	-	-	-
7/29/2007	-	-	-
7/30/2007	177.85	90.85	32.67
7/31/2007	200.14	90.05	34.91
8/1/2007	243.06	92.46	43.77
8/2/2007	209.85	99.04	46.25
8/3/2007	202.32	91.91	37.58
8/4/2007	-	-	2.56
8/5/2007	-	-	-
8/6/2007	207.89	96.94	47.72
8/7/2007	228.99	99.10	47.60
8/8/2007	228.92	93.57	49.99
8/9/2007	225.31	90.41	89.75
8/10/2007	156.49	94.95	60.88
8/11/2007	-	-	-
8/12/2007	-	-	-
8/13/2007	231.31	97.40	66.69
8/14/2007	204.13	92.11	64.09
8/15/2007	205.05	93.67	55.31
8/16/2007	190.26	94.82	47.30
8/17/2007	191.03	90.93	48.78
8/18/2007	-	-	-
8/19/2007	-	-	-
8/20/2007	204.60	97.84	77.83
8/21/2007	226.22	99.61	69.17
8/22/2007	200.71	95.04	51.73
8/23/2007	238.39	93.14	52.66
8/24/2007	218.33	91.88	52.71
8/25/2007	-	-	-
8/26/2007	-	-	-
8/27/2007	238.07	95.36	83.43
8/28/2007	241.13	98.90	73.66
8/29/2007	239.91	94.57	55.40
8/30/2007	243.16	93.25	50.40
8/31/2007	228.73	95.48	50.05
9/1/2007	-	-	-
9/2/2007	-	-	-
9/3/2007	126.33	90.39	37.67
9/4/2007	155.24	90.22	16.00
9/5/2007	155.24	93.59	40.26
9/6/2007	130.57	95.23	27.50
9/7/2007	91.87	99.40	35.37
9/8/2007	-	-	-
9/9/2007	-	-	-
9/10/2007	156.45	99.15	24.82
9/11/2007	247.70	90.93	77.83
9/12/2007	225.91	91.79	68.55

Date	N-3941-		
	1. 2 & 3	5	4
9/13/2007	230.28	99.35	43.59
9/14/2007	187.19	90.13	70.91
9/15/2007	-	-	36.91
9/16/2007	-	-	-
9/17/2007	228.63	94.68	54.85
9/18/2007	219.19	94.34	70.50
9/19/2007	226.79	96.44	59.25
9/20/2007	222.84	91.18	63.48
9/21/2007	223.82	99.82	58.88
9/22/2007	-	-	18.51
9/23/2007	-	-	-
9/24/2007	202.22	98.52	84.02
9/25/2007	221.29	95.45	60.74
9/26/2007	212.28	95.53	54.20
9/27/2007	241.43	92.43	61.24
9/28/2007	215.22	96.23	48.85
9/29/2007	-	-	-
9/30/2007	-	-	-
10/1/2007	242.84	99.80	70.66
10/2/2007	240.57	93.40	81.63
10/3/2007	242.56	97.47	53.17
10/4/2007	236.76	92.70	84.19
10/5/2007	234.93	90.10	83.56
10/6/2007	-	-	9.38
10/7/2007	-	-	-
10/8/2007	217.20	92.12	68.20
10/9/2007	246.84	94.72	58.90
10/10/2007	211.50	96.56	69.12
10/11/2007	238.57	95.31	71.62
10/12/2007	240.83	99.60	67.67
10/13/2007	-	-	0.00
10/14/2007	-	-	-
10/15/2007	206.66	93.80	58.61
10/16/2007	239.18	98.36	51.32
10/17/2007	205.77	95.74	45.81
10/18/2007	208.28	94.19	47.34
10/19/2007	232.61	99.42	67.58
10/20/2007	-	-	-
10/21/2007	-	-	-
10/22/2007	205.54	91.87	52.44
10/23/2007	190.98	94.99	53.48
10/24/2007	170.15	94.85	43.72
10/25/2007	161.49	93.13	38.28
10/26/2007	168.99	90.67	54.13
10/27/2007	-	-	-
10/28/2007	-	-	-
10/29/2007	180.81	98.35	47.11
10/30/2007	186.06	95.44	85.63
10/31/2007	166.10	91.08	46.82
11/1/2007	163.74	91.29	49.64
11/2/2007	153.89	96.55	47.27
11/3/2007	-	-	6.68
11/4/2007	-	-	-
11/5/2007	228.76	92.97	57.89
11/6/2007	234.42	99.34	68.65

Date	N-3941-		
	1. 2 & 3	5	4
11/7/2007	228.58	95.76	81.89
11/8/2007	232.08	95.58	74.74
11/9/2007	232.67	99.21	87.65
11/10/2007	-	-	-
11/11/2007	-	-	-
11/12/2007	228.75	93.08	82.75
11/13/2007	227.25	97.26	62.39
11/14/2007	242.69	97.15	91.07
11/15/2007	236.05	96.72	45.49
11/16/2007	221.89	91.93	70.55
11/17/2007	-	-	-
11/18/2007	-	-	-
11/19/2007	234.99	94.75	67.02
11/20/2007	228.13	90.92	60.61
11/21/2007	242.99	92.01	61.21
11/22/2007	194.60	89.80	57.60
11/23/2007	-	-	-
11/24/2007	-	-	-
11/25/2007	-	-	-
11/26/2007	235.02	98.50	49.28
11/27/2007	222.69	96.87	57.62
11/28/2007	215.54	98.71	84.19
11/29/2007	205.17	93.75	59.87
11/30/2007	214.91	94.13	62.76
12/1/2007	-	-	2.24
12/2/2007	-	-	-
12/3/2007	238.08	96.95	74.37
12/4/2007	231.89	91.09	86.23
12/5/2007	244.86	96.84	63.71
12/6/2007	247.53	90.62	79.45
12/7/2007	242.04	90.41	80.71
12/8/2007	-	-	-
12/9/2007	-	-	-
12/10/2007	243.08	96.98	80.82
12/11/2007	226.95	97.75	90.75
12/12/2007	238.48	96.15	80.81
12/13/2007	220.62	97.64	78.94
12/14/2007	237.77	99.27	76.84
12/15/2007	-	-	-
12/16/2007	-	-	-
12/17/2007	243.97	97.62	71.36
12/18/2007	241.83	99.01	78.83
12/19/2007	241.98	95.91	71.36
12/20/2007	235.78	92.69	80.08
12/21/2007	234.81	99.50	78.44
12/22/2007	-	-	-
12/23/2007	-	-	-
12/24/2007	-	-	-
12/25/2007	-	-	-
12/26/2007	-	-	-
12/27/2007	-	-	-
12/28/2007	-	-	-
12/29/2007	-	-	-
12/30/2007	-	-	-
12/31/2007	-	-	-

Date	N-3941-		
	1. 2 & 3	5	4
1/1/2008	229.95	95.18	94.53
1/2/2008	232.75	90.01	71.84
1/3/2008	225.76	92.13	92.33
1/4/2008	240.35	90.81	74.46
1/5/2008	-	-	-
1/6/2008	-	-	-
1/7/2008	232.81	99.43	70.63
1/8/2008	221.04	91.31	67.92
1/9/2008	242.58	90.27	61.60
1/10/2008	203.10	93.30	96.37
1/11/2008	227.96	94.54	72.93
1/12/2008	-	-	-
1/13/2008	-	-	-
1/14/2008	222.90	92.47	88.43
1/15/2008	242.22	90.66	73.41
1/16/2008	243.39	93.16	60.93
1/17/2008	247.92	91.30	48.50
1/18/2008	236.78	96.12	83.40
1/19/2008	-	-	-
1/20/2008	-	-	-
1/21/2008	215.93	94.07	79.30
1/22/2008	229.95	95.18	94.53
1/23/2008	239.95	94.55	91.19
1/24/2008	221.06	97.87	76.91
1/25/2008	245.17	95.83	97.84
1/26/2008	-	-	-
1/27/2008	-	-	-
1/28/2008	242.47	96.17	95.47
1/29/2008	245.69	99.34	92.11
1/30/2008	244.01	98.30	96.05
1/31/2008	238.70	96.73	96.11
2/1/2008	225.30	92.20	93.23
2/2/2008	-	-	-
2/3/2008	-	-	-
2/4/2008	190.77	93.64	49.29
2/5/2008	238.91	95.51	36.55
2/6/2008	237.62	98.22	40.29
2/7/2008	223.42	91.36	61.03
2/8/2008	206.92	96.35	36.75
2/9/2008	-	-	-
2/10/2008	-	-	0.01
2/11/2008	156.68	91.11	44.19
2/12/2008	186.78	95.60	17.33
2/13/2008	189.24	97.89	16.78
2/14/2008	174.95	94.54	7.74
2/15/2008	220.05	94.68	16.30
2/16/2008	-	-	0.01
2/17/2008	-	-	-
2/18/2008	167.56	91.98	22.69
2/19/2008	165.90	91.97	21.85
2/20/2008	144.02	99.95	2.32
2/21/2008	186.64	98.86	8.64
2/22/2008	235.09	92.27	36.39
2/23/2008	-	-	0.02
2/24/2008	-	-	0.02

Date	N-3941-		
	1. 2 & 3	5	4
2/25/2008	237.06	97.10	19.91
2/26/2008	204.28	95.98	37.49
2/27/2008	241.77	95.95	36.94
2/28/2008	187.74	98.57	17.96
2/29/2008	204.30	97.45	29.82
3/1/2008	-	-	-
3/2/2008	-	-	-
3/3/2008	160.54	93.83	23.85
3/4/2008	198.87	94.18	30.19
3/5/2008	170.60	99.20	25.14
3/6/2008	225.03	93.95	41.08
3/7/2008	237.63	97.51	35.66
3/8/2008	-	-	-
3/9/2008	-	-	-
3/10/2008	186.43	90.47	45.19
3/11/2008	198.21	94.65	35.11
3/12/2008	192.37	94.63	19.56
3/13/2008	191.33	97.77	23.32
3/14/2008	231.05	90.42	38.79
3/15/2008	-	-	-
3/16/2008	-	-	-
3/17/2008	247.52	94.65	35.39
3/18/2008	217.56	95.28	42.22
3/19/2008	232.86	96.94	40.08
3/20/2008	224.80	94.75	36.77
3/21/2008	-	-	-
3/22/2008	-	-	-
3/23/2008	-	-	-
3/24/2008	239.71	91.80	46.11
3/25/2008	195.81	91.84	54.16
3/26/2008	181.58	98.61	50.15
3/27/2008	249.40	95.58	46.42
3/28/2008	187.48	99.48	33.42
3/29/2008	-	-	-
3/30/2008	-	-	-
3/31/2008	235.06	94.03	34.78
4/1/2008	149.76	91.12	66.00
4/2/2008	232.99	95.16	43.48
4/3/2008	227.81	95.78	49.57
4/4/2008	106.54	-	3.09
4/5/2008	-	-	-
4/6/2008	-	-	34.56
4/7/2008	180.78	91.96	79.95
4/8/2008	234.79	93.16	48.65
4/9/2008	204.14	94.97	46.99
4/10/2008	238.37	95.41	67.75
4/11/2008	232.35	95.59	86.35
4/12/2008	-	-	3.10
4/13/2008	-	-	5.76
4/14/2008	203.55	93.50	56.14
4/15/2008	213.65	96.81	49.71
4/16/2008	167.01	94.81	41.15
4/17/2008	161.27	96.81	86.78
4/18/2008	-	-	0.09
4/19/2008	-	-	-

Date	N-3941-		
	1. 2 & 3	5	4
4/20/2008	-	-	-
4/21/2008	151.77	96.17	44.56
4/22/2008	129.58	97.50	36.02
4/23/2008	141.24	94.67	24.30
4/24/2008	151.98	98.54	42.97
4/25/2008	147.55	97.39	15.56
4/26/2008	-	-	-
4/27/2008	-	-	-
4/28/2008	158.71	92.50	73.16
4/29/2008	205.88	97.95	46.74
4/30/2008	146.90	96.01	64.42
5/1/2008	111.59	91.19	57.23
5/2/2008	-	-	6.44
5/3/2008	-	-	6.22
5/4/2008	-	-	-
5/5/2008	224.07	94.72	55.99
5/6/2008	151.55	98.98	65.77
5/7/2008	176.12	97.90	45.50
5/8/2008	152.15	90.90	79.59
5/9/2008	149.45	93.36	41.18
5/10/2008	-	-	-
5/11/2008	-	-	-
5/12/2008	141.77	93.33	28.62
5/13/2008	216.31	91.93	21.47
5/14/2008	177.67	96.98	59.28
5/15/2008	186.76	94.92	29.05
5/16/2008	-	-	7.31
5/17/2008	-	-	3.65
5/18/2008	-	-	-
5/19/2008	179.90	97.11	22.88
5/20/2008	162.05	92.93	28.03
5/21/2008	124.71	94.80	27.70
5/22/2008	102.73	91.06	21.08
5/23/2008	-	-	7.11
5/24/2008	-	-	38.67
5/25/2008	-	-	-
5/26/2008	-	-	43.02
5/27/2008	-	-	9.18
5/28/2008	-	-	32.85
5/29/2008	-	-	7.39
5/30/2008	-	-	11.14
5/31/2008	-	-	-
6/1/2008	-	-	0.04
6/2/2008	198.25	96.58	9.22
6/3/2008	126.96	92.78	8.85
6/4/2008	117.01	93.29	11.10
6/5/2008	125.32	87.70	1.46
6/6/2008	-	-	5.58
6/7/2008	-	-	0.04
6/8/2008	-	-	0.05
6/9/2008	130.79	82.37	4.57
6/10/2008	177.38	88.82	48.96
6/11/2008	234.86	92.50	3.92
6/12/2008	-	47.85	6.80
6/13/2008	-	-	4.42

Date	N-3941-		
	1. 2 & 3	5	4
6/14/2008	-	-	0.09
6/15/2008	-	-	0.13
6/16/2008	149.64	65.89	5.01
6/17/2008	-	24.69	30.27
6/18/2008	191.64	66.12	10.36
6/19/2008	160.36	11.80	5.72
6/20/2008	-	-	5.70
6/21/2008	-	-	0.10
6/22/2008	-	-	0.06
6/23/2008	174.23	98.34	10.68
6/24/2008	167.58	99.41	5.81
6/25/2008	-	50.76	-
6/26/2008	-	-	4.70
6/27/2008	-	-	3.22
6/28/2008	-	-	0.13
6/29/2008	-	-	0.10
6/30/2008	-	-	5.47
7/1/2008	-	-	11.56
7/2/2008	-	-	3.92
7/3/2008	-	-	0.16
7/4/2008	-	-	-
7/5/2008	-	-	0.09
7/6/2008	-	-	0.10
7/7/2008	213.89	73.85	4.26
7/8/2008	219.56	95.36	12.33
7/9/2008	173.22	90.79	6.45
7/10/2008	182.46	89.45	37.18
7/11/2008	-	-	3.15
7/12/2008	-	-	0.10
7/13/2008	-	-	0.05
7/14/2008	197.87	80.17	8.97
7/15/2008	219.41	79.96	40.16
7/16/2008	161.85	78.28	9.42
7/17/2008	238.42	59.42	12.00
7/18/2008	-	-	10.58
7/19/2008	-	-	0.13
7/20/2008	-	-	0.04
7/21/2008	245.30	98.23	30.63
7/22/2008	152.13	89.65	5.21
7/23/2008	232.67	89.20	30.83
7/24/2008	-	51.17	2.96
7/25/2008	-	-	5.70
7/26/2008	-	-	0.15
7/27/2008	-	-	0.26
7/28/2008	199.91	96.59	41.13
7/29/2008	176.35	96.53	10.65
7/30/2008	176.56	79.14	4.11
7/31/2008	179.38	78.15	5.25
8/1/2008	-	-	-
8/2/2008	-	-	-
8/3/2008	-	-	-
8/4/2008	215.42	99.12	1.51
8/5/2008	179.24	94.75	26.06
8/6/2008	232.33	97.42	5.24
8/7/2008	187.25	96.05	2.64



Date	N-3941-		
	1. 2 & 3	5	4
8/8/2008	-	-	6.28
8/9/2008	-	-	-
8/10/2008	-	-	-
8/11/2008	171.34	86.57	-
8/12/2008	181.10	99.04	28.94
8/13/2008	153.73	93.08	1.57
8/14/2008	161.40	91.33	6.16
8/15/2008	182.48	92.69	4.50
8/16/2008	-	-	-
8/17/2008	-	-	-
8/18/2008	184.08	99.85	4.64
8/19/2008	183.33	96.05	10.21
8/20/2008	186.88	86.71	5.53
8/21/2008	194.92	96.46	3.66
8/22/2008	147.13	91.64	27.21
8/23/2008	-	-	-
8/24/2008	-	-	-
8/25/2008	150.56	96.31	29.73
8/26/2008	144.02	97.59	12.80
8/27/2008	226.64	90.64	16.48
8/28/2008	137.70	94.69	-
8/29/2008	187.80	98.36	24.42
8/30/2008	-	-	-
8/31/2008	-	-	-
9/1/2008	-	-	-
9/2/2008	170.80	90.81	35.84
9/3/2008	151.26	91.53	11.54
9/4/2008	175.73	92.38	0.03
9/5/2008	152.29	99.16	6.42
9/6/2008	-	-	-
9/7/2008	-	-	0.05
9/8/2008	181.62	98.73	12.31
9/9/2008	151.67	91.79	2.74
9/10/2008	176.26	89.17	41.14
9/11/2008	201.93	95.96	14.90
9/12/2008	163.14	96.92	33.04
9/13/2008	-	-	0.09
9/14/2008	-	-	0.05
9/15/2008	188.50	88.68	4.50
9/16/2008	154.03	92.30	6.66
9/17/2008	155.85	82.54	6.66
9/18/2008	214.13	82.61	7.45
9/19/2008	147.53	84.67	0.09
9/20/2008	-	-	0.06
9/21/2008	-	-	0.04
9/22/2008	161.36	86.69	0.08
9/23/2008	139.27	84.02	-
9/24/2008	169.17	91.03	2.96
9/25/2008	154.11	92.43	20.20
9/26/2008	168.02	84.29	4.51
9/27/2008	-	-	-
9/28/2008	-	-	-
9/29/2008	167.24	87.48	5.92
9/30/2008	159.06	86.79	-
10/1/2008	191.62	86.07	-

Date	N-3941-		
	1. 2 & 3	5	4
10/2/2008	233.12	83.63	-
10/3/2008	177.45	81.82	-
10/4/2008	-	-	-
10/5/2008	-	-	-
10/6/2008	168.51	92.19	4.37
10/7/2008	174.48	92.43	-
10/8/2008	161.94	90.65	-
10/9/2008	168.68	84.36	-
10/10/2008	141.33	96.66	7.12
10/11/2008	-	-	-
10/12/2008	-	-	-
10/13/2008	194.99	99.96	14.83
10/14/2008	205.25	91.44	16.81
10/15/2008	168.59	97.71	16.12
10/16/2008	173.22	99.92	5.74
10/17/2008	176.50	95.61	25.13
10/18/2008	-	-	10.16
10/19/2008	-	-	3.55
10/20/2008	190.53	96.27	-
10/21/2008	171.96	94.30	-
10/22/2008	159.77	89.05	-
10/23/2008	186.22	90.48	3.25
10/24/2008	202.06	95.16	-
10/25/2008	-	-	-
10/26/2008	-	-	-
10/27/2008	163.71	92.61	24.78
10/28/2008	163.68	94.01	3.36
10/29/2008	173.86	84.47	13.22
10/30/2008	165.39	83.90	1.90
10/31/2008	147.35	81.21	3.18
11/1/2008	-	-	30.23
11/2/2008	-	-	-
11/3/2008	145.66	99.07	10.46
11/4/2008	200.76	95.68	3.13
11/5/2008	164.49	90.07	3.58
11/6/2008	171.05	85.00	12.95
11/7/2008	178.17	90.51	3.57
11/8/2008	-	-	-
11/9/2008	-	-	-
11/10/2008	130.70	87.45	6.01
11/11/2008	171.43	69.56	-
11/12/2008	212.88	80.66	-
11/13/2008	120.53	92.07	-
11/14/2008	161.50	95.44	-
11/15/2008	-	-	-
11/16/2008	-	-	-
11/17/2008	132.17	95.88	28.59
11/18/2008	228.28	92.65	5.97
11/19/2008	225.71	81.95	-
11/20/2008	154.73	76.06	2.99
11/21/2008	159.49	80.77	-
11/22/2008	-	-	-
11/23/2008	-	-	-
11/24/2008	-	-	5.98
11/25/2008	-	-	-

Date	N-3941-		
	1. 2 & 3	5	4
11/26/2008	-	-	-
11/27/2008	-	-	-
11/28/2008	-	-	-
11/29/2008	-	-	-
11/30/2008	-	-	-
12/1/2008	152.95	71.40	21.63
12/2/2008	-	38.59	-
12/3/2008	163.18	51.92	3.07
12/4/2008	196.66	87.52	3.11
12/5/2008	99.41	82.17	24.21
12/6/2008	-	-	-
12/7/2008	-	-	-
12/8/2008	154.38	50.29	3.11
12/9/2008	-	54.47	4.70
12/10/2008	199.41	43.77	-
12/11/2008	245.79	98.29	13.05
12/12/2008	193.08	97.92	9.84
12/13/2008	-	-	-
12/14/2008	-	-	-
12/15/2008	205.92	97.31	10.38
12/16/2008	214.27	90.77	9.50
12/17/2008	229.86	96.58	11.68
12/18/2008	25.72	74.07	5.22
12/19/2008	7.58	10.30	-
12/20/2008	-	-	-
12/21/2008	-	-	-
12/22/2008	-	-	2.26
12/23/2008	-	-	2.62
12/24/2008	-	-	3.00
12/25/2008	-	-	-
12/26/2008	-	-	-
12/27/2008	-	-	-
12/28/2008	-	-	-
12/29/2008	-	-	3.00
12/30/2008	-	-	2.25
12/31/2008	-	-	2.44
1/1/2009	-	-	0.04
1/2/2009	-	-	-
1/3/2009	-	-	-
1/4/2009	-	-	-
1/5/2009	125.77	30.70	-
1/6/2009	4.70	40.30	9.21
1/7/2009	85.74	21.45	-
1/8/2009	4.52	38.06	7.53
1/9/2009	-	-	-
1/10/2009	-	-	-
1/11/2009	-	-	-
1/12/2009	-	-	0.60
1/13/2009	52.72	47.87	-
1/14/2009	47.77	39.08	-
1/15/2009	38.78	30.74	-
1/16/2009	63.29	15.82	-
1/17/2009	-	-	-
1/18/2009	-	-	-
1/19/2009	80.34	42.95	-

Date	N-3941-		
	1. 2 & 3	5	4
1/20/2009	92.42	47.62	-
1/21/2009	57.18	53.34	-
1/22/2009	86.28	53.46	-
1/23/2009	77.15	56.54	-
1/24/2009	-	-	-
1/25/2009	-	-	-
1/26/2009	73.95	52.88	-
1/27/2009	66.26	53.40	-
1/28/2009	71.02	59.03	-
1/29/2009	80.63	61.29	-
1/30/2009	69.01	58.52	-
1/31/2009	-	-	-
2/1/2009	-	-	-
2/2/2009	75.67	59.17	-
2/3/2009	66.68	63.35	-
2/4/2009	81.37	71.86	-
2/5/2009	82.86	92.10	-
2/6/2009	61.21	71.49	-
2/7/2009	-	-	-
2/8/2009	-	-	-
2/9/2009	94.10	71.16	-
2/10/2009	81.12	70.12	-
2/11/2009	82.83	63.98	-
2/12/2009	72.47	63.18	-
2/13/2009	64.95	61.94	-
2/14/2009	-	-	-
2/15/2009	-	-	-
2/16/2009	66.92	58.95	-
2/17/2009	64.31	73.59	-
2/18/2009	62.72	60.52	-
2/19/2009	77.99	61.32	-
2/20/2009	73.64	61.43	-
2/21/2009	-	-	-
2/22/2009	-	-	-
2/23/2009	86.81	63.61	-
2/24/2009	84.98	65.68	-
2/25/2009	41.93	48.12	-
2/26/2009	47.23	27.75	-
2/27/2009	36.09	30.35	-
2/28/2009	-	-	-
3/1/2009	-	-	-
3/2/2009	-	22.86	-
3/3/2009	-	-	-
3/4/2009	-	-	-
3/5/2009	-	-	-
3/6/2009	-	-	-
3/7/2009	-	-	-
3/8/2009	-	-	-
3/9/2009	43.10	21.43	-
3/10/2009	62.31	24.34	-
3/11/2009	21.27	25.06	-
3/12/2009	23.63	26.52	-
3/13/2009	42.19	15.09	-
3/14/2009	-	-	-
3/15/2009	-	-	-

Date	N-3941-		
	1. 2 & 3	5	4
3/16/2009	54.92	29.15	-
3/17/2009	54.74	29.93	-
3/18/2009	55.58	28.21	-
3/19/2009	70.17	30.46	-
3/20/2009	-	30.87	-
3/21/2009	-	-	-
3/22/2009	-	-	-
3/23/2009	37.31	29.17	-
3/24/2009	38.22	29.29	12.67
3/25/2009	81.15	42.07	1.51
3/26/2009	60.19	46.76	0.49
3/27/2009	-	32.11	1.72
3/28/2009	-	-	-
3/29/2009	-	-	-
3/30/2009	32.37	16.91	3.28
3/31/2009	37.36	27.92	-

Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13
June 2008	1.43	41.94	1.38	37.78	1.28	33.01
July 2008	1.59	40.62	1.47	36.61	1.31	32.02
August 2008	2.70	40.08	2.44	36.09	2.02	31.55
September 2008	3.15	39.27	2.88	35.35	2.49	30.92
October 2008	3.06	38.28	2.66	34.40	2.42	30.24
November 2008	1.46	35.96	1.26	32.37	1.01	28.34
December 2008	1.64	35.04	1.53	31.65	1.45	27.97
January 2009	1.08	30.29	0.98	27.44	0.90	24.14
February 2009	1.62	28.06	1.51	25.50	1.28	22.49
March 2009	0.59	26.03	0.50	23.60	0.42	20.83

Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94
November 2007	3.78	57.52	3.29	52.39	2.91	44.55
December 2007	2.56	55.06	2.25	50.00	1.82	42.44
January 2008	5.83	54.87	5.19	49.50	4.73	42.39
February 2008	3.85	52.88	3.45	47.71	2.93	40.92
March 2008	2.62	48.96	2.40	44.07	2.08	37.99
April 2008	4.21	47.55	3.71	42.59	3.38	37.10
May 2008	3.50	44.91	3.28	40.28	2.87	35.13

Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
November 2006	5.17	53.77	4.94	51.58	4.30	44.46
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58
May 2007	6.14	63.02	5.59	59.02	4.84	50.15
June 2007	4.40	62.18	3.88	57.84	3.40	49.19
July 2007	2.91	61.67	2.64	57.19	2.30	48.75
August 2007	3.24	60.30	2.96	55.77	2.49	47.34
September 2007	3.96	59.88	3.62	55.27	3.12	46.91
October 2007	4.05	58.91	3.61	54.04	3.10	45.94



Month	Month VOC (ton)	12 Month VOC (ton)	Month HAP (ton)	12 Month HAP (ton)	Month Styrene (ton)	12 Month Styrene (ton)
May 2006	4.06	47.96	3.84	46.67	3.27	39.79
June 2006	5.24	49.67	5.06	48.26	4.36	41.37
July 2006	3.42	50.50	3.29	48.96	2.74	42.00
August 2006	4.61	50.27	4.38	48.60	3.90	41.90
September 2006	4.38	50.52	4.12	48.64	3.55	41.93
October 2006	5.02	52.05	4.84	50.09	4.07	43.33
November 2006	5.17	53.77	4.94	51.58	4.30	44.46
December 2006	5.02	54.29	4.64	51.74	3.93	44.54
January 2007	6.02	56.59	5.69	53.82	4.78	46.28
February 2007	5.84	58.05	5.24	54.86	4.40	46.99
March 2007	6.54	59.34	6.04	55.96	5.01	47.67
April 2007	5.62	60.94	5.19	57.27	4.27	48.58



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



December 19, 2012

COPY

Jack Springer  
Malibu Boats, LLC  
One Malibu Court  
Merced, CA 95340

**RE: Emission Reduction Credits – Final Invoice**  
**Project Number N-1101305**

Dear Mr. Springer:

The District has issued the Emission Reduction Credits (ERC's) for the above referenced project. The certificates that represent those ERC's will arrive under separate cover.

Enclosed is an invoice for the engineering evaluation fees pursuant to District Rule 3010. Please remit the amount owed, along with a copy of the attached invoice within 60 days.

Thank you for your cooperation in this matter. If you have any questions please contact Mark Schonhoff at (209) 557-6448.

Sincerely,

David Warner  
Director of Permit Services

Rupinder Gill  
Permit Services Manager

Enclosure

**Seyed Sadredin**  
*Executive Director/Air Pollution Control Officer*

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

Due Date
1/18/2013

Amount Due
\$ 6,958.50

Amount Enclosed

ERCFEE N1101305  
3941 N96674 12/19/2012

**RETURN THIS TOP PORTION ONLY, WITH REMITTANCE TO:**

MALIBU BOATS LLC  
5075 KIMBERLY WAY  
LOUDON, TN 37774

SJVAPCD  
4800 Enterprise Way  
Modesto, CA 95356-8718

*Thank You!*



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

SJVAPCD Tax ID: 77-0262563

Facility ID
N3941

Invoice Date
12/19/2012

Invoice Number
N96674

Invoice Type
Project: N1101305

MALIBU BOATS LLC  
ONE MALIBU COURT  
MERCED, CA

**PROJECT NUMBER: 1101305**

APPLICATION FILING FEES	\$ 759.00
ENGINEERING TIME FEES	\$ 6,958.50
TOTAL FEES	\$ 7,717.50
LESS PREVIOUSLY PAID PROJECT FEES APPLIED TO THIS INVOICE	(\$ 759.00)
<b>PROJECT FEES DUE (Enclosed is a detailed statement outlining the fees for each item.)</b>	<b>\$ 6,958.50</b>

**Invoice Detail**

Facility ID: N3941

MALIBU BOATS LLC  
 ONE MALIBU COURT  
 MERCED, CA

Invoice Nbr: N96674  
 Invoice Date: 12/19/2012  
 Page: 1

**Application Filing Fees**

Project Nbr	Permit Number	Description	Application Fee
N1101305	N-3941-1101305-0	Emission Reduction Credit Banking Evaluation Fee	\$ 759.00
<b>Total Application Filing Fees:</b>			<b>\$ 759.00</b>

**Engineering Time Fees**

Project Nbr	Quantity	Rate	Description	Fee
N1101305	73.5 hours	\$ 105.00 /h	Standard Engineering Time	\$ 7,717.50
			Less Credit For Application Filing Fees	(\$ 759.00)
			Standard Engineering Time SubTotal	\$ 6,958.50
<b>Total Engineering Time Fees:</b>				<b>\$ 6,958.50</b>

UNITED STATES POSTAL SERVICE



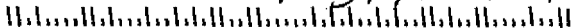
First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

- Sender: Please print your name, address, and ZIP+4 in this box •

San Joaquin Valley APCD  
1990 E. Gettysburg Avenue  
Fresno, CA 93726

*Song*  
*Mark S. / ERC - Public Notice*

*N-3941 N-1101305*



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Jack Springer  
 Malibu Boats, LLC  
 One Balibu Court  
 Merced, CA 95340

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

 Agent Addressee

B. Received by (Printed Name)

Melvin Johnson

C. Date of Delivery

12/26/12

D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

95341

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

 Yes

2 7010 1870 0001 2882 8184 1