MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LEMANS BLUE METALLIC
PRODUCT CODE: 338L039
HMIS CODES: H F R P

================== SECTION I - MANUFACTURER IDENTIFICATION ===================

MANUFACTURER'S NAME: VALSPAR REFINISH
ADDRESS: 210 CROSBY STREET, PICAYUNE, MS 39466
EMERGENCY PHONE: (800)228-5635 Ext. 47 INFORMATION PHONE: (601) 798-4731

DATE OF PRINTING: 01/25/00 NAME OF PREPARATOR: TIM HERRINGTON

========== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ==========

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENT</th>
<th>CAS NUMBER</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>OTHER</th>
<th>VAPOR PRESSURE</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester resin D</td>
<td>NA</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td>-N/A-</td>
<td></td>
</tr>
<tr>
<td>ALKO RESIN C</td>
<td>NA</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td>-N/A-</td>
<td></td>
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<tr>
<td>Cooper phthaleianine blue A</td>
<td>147-14-8</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
<td>N/A</td>
<td>-N/A-</td>
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<tr>
<td>Cellulose acetate butyrate</td>
<td>9004-26-8</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td>-N/A-</td>
<td></td>
</tr>
<tr>
<td>Aldehyde resin A</td>
<td>NA</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td>-N/A-</td>
<td></td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>141-78-6</td>
<td>400 PPM</td>
<td>400 PPM</td>
<td>75.0</td>
<td>68F -N/A-</td>
<td></td>
</tr>
<tr>
<td>N-butyl acetate</td>
<td>123-85-4</td>
<td>150 PPM</td>
<td>150 PPM</td>
<td>8.4</td>
<td>68F -N/A-</td>
<td></td>
</tr>
<tr>
<td>Acetone, C.</td>
<td>67-64-1</td>
<td>1000 PPM</td>
<td>750 PPM</td>
<td>184.0</td>
<td>68F -N/A-</td>
<td></td>
</tr>
<tr>
<td>VMF naptha</td>
<td>64742-83-8</td>
<td>300 PPM</td>
<td>300 PPM</td>
<td>5.2</td>
<td>68F -N/A-</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>100 PPM</td>
<td>100 PPM</td>
<td>8.5</td>
<td>68F -N/A-</td>
<td></td>
</tr>
<tr>
<td>Toluene 1551</td>
<td>108-86-5</td>
<td>200 PPM</td>
<td>100 PPM</td>
<td>26.7</td>
<td>68F 14</td>
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<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>100 ppm</td>
<td>100 ppm</td>
<td>25.0</td>
<td>77F 18</td>
<td></td>
</tr>
</tbody>
</table>

* Indicates toxic chemicals subject to the reporting requirements of section 213 of Title III and of 40 CFR 372.

========== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ==========

BOILING RANGE: 133 to 392 Deg F
SPECIFIC GRAVITY (H2O=1) 0.9992
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 5.08 LB/GL (508 GP/L) MAT. V.O.C.: 4.84 LB/GL (581 GP/L)
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND ODOR: OPAQUE VISCOUS LIQUID WITH ORGANIC SOLVENT ODOR

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

FLASH POINT: 4 Deg F
METHOD USED: T.C.C.
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 0.9% UPPER: 13.0%

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

firefighters should wear self-contained breathing apparatus. Although water may be ineffective, a water fog may be used
to cool closed containers that are exposed to heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel
a considerable distance along the ground to an ignition source and flash back.
STABILITY: STABLE
CONDITIONS TO AVOID
None known.

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizing agents.

Hazardous Decomposition or Byproducts
BY FIRE: Normal products of incomplete combustion
Hazardous Polymerization: WILL NOT OCCUR

Inhalation Health Risks and Symptoms of Exposure
Dizziness, headache, nausea, shortness of breath, solvent taste in the mouth, narcosis, euphoria, or unconsciousness.

Skin and Eye Contact Health Risks and Symptoms of Exposure
Burning sensation with reddening of the eyes, irritation, rash or burning sensation or the skin.

Skin Absorption Health Risks and Symptoms of Exposure
Prolonged or repeated unprotected skin contact may cause dermatitis, drying of the skin or dermatitis.

Ingestion Health Risks and Symptoms of Exposure
Gastrointestinal distress and symptoms of systemic poisoning.

Health Hazards (Acute and Chronic)
ACUTE—Shortness of breath, burning sensation of respiratory passages, nausea, headache and increased proneness to accident. CHRONIC—Necrosis, kidney, and liver dysfunction with possible central nervous system effects.

Carcinogenicity: NTP? Yes  IARC Monographs? No  OSHA Regulated? No
Check in Section II - Hazardous Ingredients above for the presence of either LEAD CHROMATE or LEAD MOLYBDENUM in this product.
If these materials are absent, then none of the components of this formulation are listed carcinogens.
CALIFORNIA PROPOSITION 65 WARNING STATEMENT: Check in Section II - Hazardous Ingredients above for the characters [C] or [E] in the name of a hazardous component. If these characters are present then this component is known to the state of California to be a carcinogen, teratogen or reproductive toxin. However, it is not possible to be certain that a particular chemical on the Proposition 65 list is not present in some very small but detectable amount.

Medical Conditions Generally Aggravated by Exposure
Respiratory difficulty or pre-existing skin sensitization.

Emergency and First Aid Procedures
FOR EYES—Flush with plenty of clean flowing water for at least 15 minutes and get medical attention. FOR SKIN—Wash affected areas with plenty of warm soapy water. Launder contaminated clothing and shoes before reuse. IF AFFECTED BY INHALATION OF VAPORS—Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. IF SWALLOWED—Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Provide adequate ventilation. Remove all possible ignition sources. Absorb with inert absorbent and dispose in accordance with local regulations for ignitable hazardous waste.

WASTE DISPOSAL METHOD
Dispose in accordance with local regulations for ignitable hazardous waste.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store in a cool dry place. Outside or detached storage is preferable. Inside should be in a standard flammable liquid storage room or cabinet. Ground containers when transferring liquid from one metal container to another. Do not reuse empty product container for any purpose.

OTHER PRECAUTIONS
If a second component is added to this product, or if any additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.

RESPIRATORY PROTECTION
Combination vapor-particulate respirator for use in solvent-containing environments is recommended if ventilation is inadequate.

VENTILATION
Local ventilation should be sufficient to reduce airborne vapor concentrations to below LEL and PLV to be considered adequate.

PROTECTIVE GLOVES
Recommended where skin contact is likely. Use solvent resistant gloves such as nitrile rubber.

EYE PROTECTION
Chemical splash goggles are recommended if potential for splashing into the eyes is high.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Solvent resistant clothing is recommended as needed to avoid skin contact.

WORK/HYGIENIC PRACTICES
Wash hands thoroughly after handling product and before eating.

DISCLAIMER
The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as an express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DIAMOND BLUE METALLIC
PRODUCT CODE: 503L381

HMS CODES: F F R P 1 O O B

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Valspar Refinish
ADDRESS: 210 Crosby Street, Picayune, MS 39466
EMERGENCY PHONE: (800) 228-5635 Ext. 47 INFORMATION PHONE: (601) 795-4731

DATE REVISED: 02/01/95 CONTACT NAME: Tim Herrington
DATE OF PRINTING: 01/25/00

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>OCCUPATIONAL EXPOSURE LIMITS</th>
<th>VAPOR PRESSURE WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DEHS PEL</td>
<td>ACGIH TLV</td>
</tr>
<tr>
<td>Dipropylene glycol monoethyl ether/dpe</td>
<td>36960-94-8</td>
<td>100 PPM</td>
</tr>
</tbody>
</table>

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 212 F INITIAL Deg F
SPECIFIC GRAVITY (H2O=1) 1.1
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 1.29 LB/GL ( 226 G/L)
MAT. V.O.C.: 0.36 LB/GL ( 42 G/L)
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND ODOR: OPAQUE VISCOS LIQUID WITH SLIGHT AMINE ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: OVER 200 F
METHOD USED: CLOSED CUP
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOAM

SPECIAL FIREFIGHTING PROCEDURES
Firefighters should wear self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and flash back.

SECTION V - REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: None known.

INCOMPATABILITY (MATERIALS TO AVOID): Strong oxidizing agents.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS
BY FIRE: Vapors products of incomplete combustion.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Dizziness, headache, nausea, shortness of breath, solvent taste in the mouth, narcosis, euphoria, or unconsciousness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Burning sensation with reddening of the eyes, irritation, rash or burning sensation on the skin.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin or dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Gastrointestinal distress and symptoms of systemic poisoning.

HEALTH HAZARDS (ACUTE AND CHRONIC)
ACUTE--Shortness of breath, burning sensation of respiratory passages, nausea, headache and increased proneness to accident. CHRONIC--Narcosis, kidney and liver disfunction with possible central nervous system effects.

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

CALIFORNIA PROPOSITION 65 WARNING STATEMENT: Check in Section II of this MSDS for hazardous ingredients whose name contains the characters (65). These ingredients are listed or have trace components that are listed on California Prop 65 lists.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Respiratory difficulty or pre-existing skin sensitization.

EMERGENCY AND FIRST AID PROCEDURES
FOR EYES--Flush with plenty of clean flowing water for at least 15 minutes and get medical attention. FOR SKIN--Wash affected areas with plenty of water and soap. Launder contaminated clothing and shoes before reuse. IF AFFECTED BY INHALATION OF VAPORS--Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. IF SWALLOWED--Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Provide adequate ventilation. Absorb with an inert absorbant and dispose in accordance with local regulations for non-hazardous materials.

WASTE DISPOSAL METHOD
No special disposal method is required. Normal product waste may be sewer to a public-owned treatment work in compliance with federal, state and local pretreatment requirements.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store in a cool dry place outside the reach of children. Do not reuse empty product container for any purpose.

OTHER PRECAUTIONS
If a second component is added to this product, or if any additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.
RESPIRATORY PROTECTION
Combination vapor–particulate respirator for use in solvent-containing environments is recommended if ventilation is inadequate.

VENTILATION
Local ventilation should be sufficient to reduce airborne vapor concentrations to below LEL and TLV to be considered adequate.

PROTECTIVE GLOVES
Recommended where skin contact is likely.

EYE PROTECTION
Chemical splash goggles are recommended if potential for splashing into the eyes is high.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Recommended as needed to avoid skin contact.

WORK/HYGIENIC PRACTICES
Wash hands thoroughly after handling product and before smoking or eating.

DISCLAIMER
The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as an express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 2.1 VDC ACTIVATOR FOR AC-2135
PRODUCT CODE: AK-01

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Valspar Refinish
ADDRESS: 210 Crosby St.
Picasquen, MS 33466

DATE PRINTED: 01/25/00
NAME OF PREPARER: Tim Harrington

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE</th>
<th>WEIGHT PERCENT</th>
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<tbody>
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<td>2982-61-2</td>
<td>Unknown</td>
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</tbody>
</table>

### NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT ###

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 282 deg F
VAPOR DENSITY: Heavier than air
COATING V.O.C.: 0.00 lb/gl
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Opaque and/or translucent viscous liquid with organic solvent odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 165 deg F
METHOD USED: TACCC
FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 1.9
EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical.

SPECIAL FIREFIGHTING PROCEDURES

FULL emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During a fire, isocyanate vapors and other irritating or highly toxic gases may be generated.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and flash back.

SECTION V - REACTIVITY DATA
STABILITY: Stable

CONDITIONS TO AVOID
None known.

INCOMPATIBILITY (MATERIALS TO AVOID)
Water, amines, strong bases, alcohols, metal compounds.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
BY HEAT & FIRE: Carbon dioxide, carbon monoxide, oxides of nitrogen, and traces of HCN and isocyanates monomer.

HAZARDOUS POLYMERIZATION: A polymerization may occur above 400F or if exposed to moisture or other materials that react with isocyanates.

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Exposures above suggested limits can irritate mucous membranes in the respiratory tract causing runny nose, coughing, or shortness of breath. Certain individuals will react to asthma-like symptoms at very low exposures.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Burning sensation with reddening of the eyes, irritation, rash, or burning sensation on the skin in unprotected areas.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin, or dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Gastrointestinal distress with symptoms of systemic poisoning.

HEALTH HAZARDS (ACUTE AND CHRONIC)
ACUTE: Shortness of breath, burning sensation of respiratory passages, nausea, headache and increased prominence to attack. An allergic respiratory reaction similar to an asthma attack can occur in some individuals with prolonged or repeated previous exposure or a large single exposure to isocyanates. Chronic: Narrows, kidney and liver dysfunction with possible central nervous system effects.

CARCINOGENICITY: NTP CARCINOGEN: No  IARC MONOGRAPHS: No  OSHA REGULATED: No

CALIFORNIA PROPOSITION 65 STATEMENT: Check Section 11 of this MSDS for hazardous ingredients whose name contains the characters (65). These ingredients are listed or have trace components that are listed on California Proposition 65 lists.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Respiratory difficulty or pre-existing skin sensitization, or previous acute allergic respiratory reaction to isocyanates.

EMERGENCY AND FIRST AID PROCEDURES
FOR EYES: Flush with plenty of clean flowing water for at least 15 minutes and get medical attention.
FOR SKIN: Wash affected areas with plenty of warm soapy water. Launder contaminated clothing and shoes before reuse.
IF AFFECTED BY INHALATION OF VAPORS: Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped.
IF SWALLOWED: Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled
Provide adequate ventilation. Remove all possible ignition sources. Absorb with inert absorbent and dispose in accordance with local regulations for ignitable hazardous waste.

Waste Disposal Method
Dispose in accordance with local regulations for ignitable hazardous waste.

Precautions to be Taken in Handling and Storing
Store in a cool dry place. Outside or detached storage is preferable. Inside storage should be in a standard flammable liquid storage room or cabinet. Ground containers when transferring liquid from one metal container to another. Do not reuse empty product container for any purpose.

Other Precautions
If this product is combined with another component, or if additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.

Section VIII - Control Measures

Respiratory Protection
Exhaust ventilation sufficient to keep airborne concentration of solvent, HDI and polyisocyanate below TLV's must be utilized. A respirator that is recommended for use in isocyanate-containing environments may also be necessary. When concentrations are not known, or work is in a confined space, the use of a positive air pressure respirator is mandatory.

Ventilation
Local ventilation should be sufficient to reduce airborne vapor concentrations to below TLV and TLV to be considered adequate.

Protective Gloves
Recommended where skin contact is likely. Use solvent resistant gloves such as nitrile rubber.

Eye Protection
Chemical splash goggles are highly recommended, particularly when potential for splashing into the eyes is high.

Other Protective Clothing or Equipment
Solvent resistant clothing is recommended as needed to avoid skin contact.

Work/Hygienic Practices
Wash hands thoroughly after handling product and before smoking or eating.

Section IX - Disclaimer

The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as any express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 2.1 VOC PREMIUM CLEARCOAT
PRODUCT CODE: AC-2155

HMIS CODES: H R P

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: VALERAR REFINISH
ADDRESS: 210 CROSBY ST.
PICAYUNE, MS 39466

MEDICAL EMERGENCY: 888-345-5732
DATE PRINTED: 01/25/00
TRANSPORTATION EMERGENCY: 888-749-5556
NAME OF PREPARER: Tim Herrington
PRODUCT INFORMATION: 800-845-2500

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Vapor Pressure</th>
<th>Weight Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic resin D</td>
<td>Proprietary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA PEL: None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyl n-butyl ketone (M.N.B.K.)</td>
<td>110-48-0</td>
<td>2.14</td>
<td>69</td>
</tr>
<tr>
<td>OSHA PEL: Not established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acrylic resin B</td>
<td>Proprietary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA PEL: None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POST (PARACHLOROBENZOTRIFLUORIDE)</td>
<td>99-55-6</td>
<td>5.3</td>
<td>68</td>
</tr>
<tr>
<td>OSHA PEL: Not ESTD, ACGIH TLV: Not ESTD, OTHER: 25 ppm 8 Hr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-butoxyethanol acetate</td>
<td>90112-07-2</td>
<td>0.29</td>
<td>66</td>
</tr>
<tr>
<td>OSHA PEL: Not estd, ACGIH TLV: Not estd, OTHER: 25 ppm 8 Hr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Toluene (M104)</td>
<td>1230-20-7</td>
<td>25</td>
<td>77</td>
</tr>
<tr>
<td>OSHA PEL: None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Ethylbenzene</td>
<td>100-41-4</td>
<td>8.5</td>
<td>69</td>
</tr>
<tr>
<td>ACGIH TLV/TWA: 100 ppm, 125 ppm STEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA PEL/TWA: 100 ppm, 125 ppm STEL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. + Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 277 deg F - 367 deg F
SPECIFIC GRAVITY (H2O=1): 1.07
VAPOR DENSITY: Heavier than air
EVAPORATION RATE: Slower than ether
COATING V.O.C.: 2.76 lb/gl
MATERIAL V.O.C.: 2.51 lb/gl
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Clear liquid with organic solvent odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 80
METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .88
UPPER: 10.5

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, or water fog.

SPECIAL FIREFIGHTING PROCEDURES

Firefighters should wear self-contained breathing apparatus. Although water may be ineffective, a water fog may be used to cool closed containers that are...
UNUSUAL FIRE AND EXPLOSION HAZARDS
Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and flash back.

STABILITY: Stable
CONDITIONS TO AVOID
None known

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
BY FIRE: Normal products of incomplete combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Dizziness, headache, nausea, shortness of breath, solvent taste in the mouth, narcosis, euphoria, or unconsciousness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Burning sensation with reddening of the eyes, irritation, rash, or burning sensation on the skin in unprotected areas.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin, or dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Gastrointestinal distress with symptoms of systemic poisoning.

HEALTH HAZARDS (ACUTE AND CHRONIC)
ACUTE: Shortness of breath, burning sensation of respiratory passages, nausea, headache and increased proneness to accident.
CHRONIC: Narcosis, kidney and liver dysfunction with possible central nervous system effects.

CARCINOGENICITY: NTP CARCINOGEN: Yes IARC MONOGRAPHS: No OSHA REGULATED: No
CALIFORNIA PROPOSITION 65 STATEMENT: Check Section II of this MSDS for hazardous ingredients whose name contains the characters [S5]. These ingredients are listed or have trace components that are listed on California Proposition 65 lists.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Respiratory difficulty or pre-existing skin sensitization.

EMERGENCY AND FIRST AID PROCEDURES
FOR EYES: Flush with plenty of clean flowing water for at least 15 minutes and get medical attention. FOR SKIN: Wash affected areas with plenty of warm soapy water. Launder contaminated clothing and shoes before reuse. IF AFFECTED BY INHALATION OF VAPORS: Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. IF INCIDENTAL EXPOSURE: Remove contaminated clothing and wash skin with soap and water. Use a personal protective equipment like a respirator for exposure to dust or fume.
MATERIAL SAFETY DATA SHEET

2.1 VDC PREMIUM CLEARCOAT

SWALLOWED: Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Provide adequate ventilation. Remove all possible ignition sources. Absorb with inert absorbant and dispose in accordance with local regulations for ignitable hazardous waste.

WASTE DISPOSAL METHOD
Dispose in accordance with local regulations for ignitable hazardous waste.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store in a cool dry place. Outside or detached storage is preferable. Inside storage should be in a standard flammable liquid storage room or cabinet. Ground containers when transferring liquid from one metal container to another. Do not reuse empty product container for any purpose.

OTHER PRECAUTIONS
If a second component is added to this product, or if any additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION
Combination vapor-particulate respirator for use in solvent-containing environments is recommended, if ventilation is inadequate. If over-exposure is possible, use Air Supplied Respirator.

VENTILATION
Local ventilation should be sufficient to reduce airborne vapor concentrations to below LEL and TLV to be considered adequate.

PROTECTIVE GLOVES
Recommended where skin contact is likely. Use solvent resistant gloves such as nitrile rubber.

EYE PROTECTION
Chemical splash goggles are highly recommended, particularly when potential for splashing into the eyes is high.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Solvent resistant clothing is recommended as needed to avoid skin contact.

WORK/HYGIENIC PRACTICES
Wash hands thoroughly after handling product and before smoking or eating.

SECTION IX - DISCLAIMER

The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as any express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.
MATERIAL SAFETY DATA SHEET

BASECOAT STABILIZER FAST

PRODUCT NAME: BASECOAT STABILIZER FAST
PRODUCT CODE: 00000000000000161

-----------------------------------------------
MANUFACTURER'S NAME: Valspar Refinish
ADDRESS: 210 Crosby St.
Picayune, MS 39466

MEDICAL EMERGENCY: 888-345-2732
DATE PRINTED: 01/25/00
NAME OF PREPARER: Tim Harrington

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE @ 27°C</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Toluene</td>
<td>106-46-3</td>
<td>15</td>
<td>100.0</td>
</tr>
<tr>
<td></td>
<td>108-10-5</td>
<td>75</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>110-62-7</td>
<td>90</td>
<td>4.3</td>
</tr>
</tbody>
</table>

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 49 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 171 deg F - 284 deg F
VAPOR DENSITY: Heavier than air
SPECIFIC GRAVITY (H2O=1): 0.84
EVAPORATION RATE: Slower than water
MATERIAL V.O.C.: 6.92 lb/gal
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODO: Clear liquid with organic solvent odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 50 deg F
METHOD USED: T.C.C.
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: .9
                               UPPER: 12

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, or water fog.

SPECIAL FIREFIGHTING PROCEDURES

Firefighters should wear self-contained breathing apparatus. Although water may
be ineffective, a water fog may be used to cool closed containers that are

...
Material Safety Data Sheet

Basecoat Stabilizer Fast.

Swallowed: Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled
Provide adequate ventilation. Remove all possible ignition sources. Absorb with inert absorbent and dispose in accordance with local regulations for ignitable hazardous waste.

Waste Disposal Method
Dispose in accordance with local regulations for ignitable hazardous waste.

Precautions to be taken in handling and storing
Store in a cool dry place. Outside or detached storage is preferable. Inside storage should be in a standard flammable liquid storage room or cabinet. Ground containers when transferring liquid from one metal container to another. Do not reuse empty product container for any purpose.

Other Precautions
If a second component is added to this product, or if any additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.

SECTION VIII - CONTROL MEASURES

Respiratory Protection
Combination vapor-particulate respirator for use in solvent-containing environments is recommended. If ventilation is inadequate, if over-exposure is possible, use air supplied respirator.

Ventilation
Local ventilation should be sufficient to reduce airborne vapor concentrations to below 10 ppm and 750 ppm considered adequate.

Protective Gloves
Recommended where skin contact is likely. Use solvent resistant gloves such as nitrile rubber.

Eye Protection
Chemical splash goggles are highly recommended, particularly when potential for splashing into the eyes is high.

Other Protective Clothing or Equipment
Solvent resistant clothing is recommended as needed to avoid skin contact.

Work/Hygienic Practices
Wash hands thoroughly after handling product and before smoking or eating.

SECTION IX - DISCLAIMER

The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as any express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: AQUAPRIMER SURFACER WHITE
PRODUCT CODE: 882

HMIS CODES: H F R P

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800)424-9300
INFORMATION PHONE: (800)752-1566
DATE PRINTED: 07/09/98
NAME OF PREPARER: N/A

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE</th>
<th>TEMP (F)</th>
<th>WEIGHT PERCENT</th>
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<td>13463-67-7</td>
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<tr>
<td>13983-17-0</td>
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<td>111-77-3</td>
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<td>68</td>
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<td>111-76-2</td>
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<td>68</td>
<td>3</td>
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<td>10048-98-3</td>
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<tr>
<td>85-68-7</td>
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<td>302</td>
<td>1</td>
</tr>
</tbody>
</table>

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 195 - 450
SPECIFIC GRAVITY (H2O=1): 1.35
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 1.93 lb/gl
MATERIAL V.O.C.: 0.75 lb/gl
COATING V.O.C.: 231 g/l
MATERIAL V.O.C.: 90 g/l

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): >200
METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY % VOLUME - LOWER: .26
UPPER: 10.6
EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES
Use approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Material will not sustain combustion unless water has evaporated. Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.
SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation: Concentrated vapors maybe harmful. May cause headache, dizziness and nausea.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin and eye contact: May cause irritation to both.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption: May cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion: Maybe harmful if swallowed.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause eye, nose, respiratory tract and skin irritation, headache, dizziness and nausea. Chronic: Prolonged and repeated exposure may cause injury to bone marrow, blood cells, kidney, liver and testes.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.
SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS.
WASTE DISPOSAL METHOD
Place in tightly closed containers. Incinerate or dispose of in accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store away from high temperatures, sparks and open flame. Keep containers tightly closed.

OTHER PRECAUTIONS
Do not take internally. Avoid prolonged contact with skin.

============= SECTION VIII - CONTROL MEASURES ===============

RESPIRATORY PROTECTION
Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Where vapor does not exceed TLV limits, use NIOSH approved respirator.

VENTILATION
Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

PROTECTIVE GLOVES
Chemical resistant gloves

EYE PROTECTION
Chemical goggles, safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Eye bath and safety shower

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

============= SECTION IX - REGULATORY INFORMATION ===============

CALIFORNIA PROPOSITION 65
This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Contains: Ethylene Glycol Monomethyl Ether (trace) and Ethylene Glycol Monoethyl Ether (trace).

This product contains a chemical known to the State of California to cause cancer.
Contains: Crystalline Silica (trace).

============= SECTION X - DISCLAIMER ===============

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: AQUAPRIMER SURFACER W/B GRAY
PRODUCT CODE: 883

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800)424-9300
INFORMATION PHONE: (800)752-1566
DATE PRINTED: 03/31/98
NAME OF PREPARER: N/A

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE (MMHG)</th>
<th>@TEMP (F)</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITANIUM DIOXIDE (as total nuisance dust)</td>
<td>13463-67-7</td>
<td>NA</td>
<td>NA</td>
<td>8</td>
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<tr>
<td>OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m3</td>
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<tr>
<td>* DIETHYLENE GLYCOL MONOMETHYL ETHER</td>
<td>111-77-3</td>
<td>.1</td>
<td>68</td>
<td>4</td>
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<tr>
<td>OSHA PEL: N/E, ACGIH TLV: N/E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* 2-BUTOXYETHANOL, ETHYLENE GLYCOL BUTYL ETHER</td>
<td>111-76-2</td>
<td>.78</td>
<td>68</td>
<td>3</td>
</tr>
<tr>
<td>OSHA PEL: 50 ppm, ACGIH TLV: 25 ppm, OTHER: N/E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* BUTYL BENZYL PHthalate</td>
<td>85-68-7</td>
<td>.16</td>
<td>302</td>
<td>1</td>
</tr>
<tr>
<td>OSHA PEL: 5 mg/m3, ACGIH TLV: 5 mg/m3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 195 - 450
SPECIFIC GRAVITY (H2O=1): 1.29
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 2.02 lb/gl
MATERIAL V.O.C.: 0.76 lb/gl
COATING V.O.C.: 243 g/l
MATERIAL V.O.C.: 91 g/l
SOLUBILITY IN WATER: Soluble
APPEARANCE AND ODOR: Gray liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): >200
METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY % VOLUME: LOWER: .26  UPPER: 10.6
EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES
Use approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Material will not sustain combustion unless water has evaporated. Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.
SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation: Concentrated vapors maybe harmful. May cause headache, dizziness and nausea.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin and eye contact: May cause irritation to both.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption: May cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion: Maybe harmful if swallowed.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause eye, nose, respiratory tract and skin irritation, headache, dizziness and nausea. Chronic: Prolonged and repeated exposure may cause injury to bone marrow, blood cells, kidney, liver and testes.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY. SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS.
WASTE DISPOSAL METHOD
Place in tightly closed containers. Incinerate or dispose of in accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store away from high temperatures, sparks and open flame. Keep containers tightly closed.

OTHER PRECAUTIONS
Do not take internally. Avoid prolonged contact with skin.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION
Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Where vapor does not exceed TLV limits, use NIOSH approved respirator.

VENTILATION
Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

PROTECTIVE GLOVES
Chemical resistant gloves

EYE PROTECTION
Chemical goggles, safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Eye bath and safety shower

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

SECTION IX - REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65
This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Contains: Ethylene Glycol Monomethyl Ether (trace) and Ethylene Glycol Monoethyl Ether (trace).

This product contains a chemical known to the State of California to cause cancer.
Contains: Crystalline Silica (trace).

SECTION X - DISCLAIMER

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SPEEDPRIME GRAY PRIMER SURFACER--PT. A
PRODUCT CODE: 911A
HMIS CODES: H F R F
2*3 2

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800)424-9300
DATE PRINTED: 04/02/98
INFORMATION PHONE: (800)752-1566
NAME OF PREPARER: N/A

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE (MMHG)</th>
<th>TEMPERATURE (°F)</th>
<th>PERCENT</th>
</tr>
</thead>
</table>

ACETONE
CASA PEL: 1000 ppm, ACGIH TLV: 750 ppm

* PARACHLOROBENZOTRIFLUORIDE
OSHA PEL: NE, ACGIH TLV: NE

TITANIUM DIOXIDE (as total nuisance dust)
OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m³

* ISOPROPYL ALCOHOL, 2-PROPANOL
OSHA PEL: 400 ppm, ACGIH TLV: 400 ppm

* XYLENE
OSHA PEL: 100 ppm, ACGIH TLV: 100 ppm

* METHYL PROPYL KETONE
OSHA PEL: 200 ppm, ACGIH TLV: 200 ppm

DIBASIC ESTER (CAS #1119-40-0, 627-93-0, 106-65-0)
OSHA PEL: N/E, ACGIH TLV: N/E

SOLVENT NAPTHA, HEAVY AROMATIC
OSHA TWA: NE, ACGIH STEL: NE, SUPPLIER RECOMMENDED TWA: 100 ppm

* DI (2-ETHYLHEXYL) PHthalate
OSHA PEL: 5 MG/M³, ACGIH TLV: 5 MG/M³

METHYL AMYL KETONE, 2-HEPTANONE
ACGIH TLV: 50 ppm

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 133 - 723
SPECIFIC GRAVITY (H₂O=1): 1.18
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 2.34 lb/gl
MATERIAL V.O.C.: 0.98 lb/gl
COATING V.O.C.: 281 g/l
MATERIAL V.O.C.: 117 g/l
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Gray liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): 1
METHOD USED: TOC
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .3
UPPER: 12.8

EXTINGUISHING MEDIA: FOAM, CO₂, DRY CHEMICAL, WATER FOG, OTHER
SPECIAL FIREFIGHTING PROCEDURES
Use approved self-contained breathing apparatus. Do not use direct stream of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizing agents, alkaline materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Thermal decomposition may yield carbon dioxide and/or carbon monoxide, nitrogen oxides, methane and carboxylic acids.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation: May cause irritation to nose, throat and respiratory tract. High vapor concentrations may cause CNS depression.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin and eye contact: May cause irritation to both.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption: May cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion: May cause vomiting which can result in aspiration of liquid into lungs. Do not induce vomiting.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause eye, skin, nose and respiratory tract irritation. Early to moderate CNS depression may be evidenced by giddiness, headache, nausea and dizziness. Aspiration of liquid into the lungs can result in aspiration pneumonitis which may be evidenced by coughing and labored breathing. Chronic: Prolonged and repeated contact with skin may cause defatting and drying of the skin which may result in dermatitis.

CARCINOGENICITY: NTP CARCINOGEN: Yes IARC MONOGRAPHS: Yes OSHA REGULATED: No
This material contains Di(2-ethylhexyl) phthalate, which is classified as a possible carcinogen for humans (2B) by IARC and NTP.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Pre-existing eye, skin and respiratory disorders may be aggravated.
EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. IF BREATHING STOPS, GIVE ARTIFICIAL RESPIRATION. SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE PICKED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS. ADD WATER TO CONTAINERS. DO NOT ALLOW MATERIALS TO BECOME DRY.

WASTE DISPOSAL METHOD
Place in tightly closed containers and dispose of in accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store away from heat, sparks and open flames. Keep containers tightly closed when not in use. Use with adequate ventilation. Electrically bond and ground the drum while emptying. Do not allow contents to become dry.

OTHER PRECAUTIONS
Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION
Use a NIOSH-approved respirator if exposure exceeds TLV limits.

VENTILATION
Use explosion-proof ventilation as required to control vapor concentrations.

PROTECTIVE GLOVES
Chemical resistant gloves

EYE PROTECTION
Chemical goggles, safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Eye bath and safety shower

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

SECTION IX - DISCLAIMER
The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SPEEDPRIME PRIMER SURFACER--PART B
PRODUCT CODE: 911B

HMIS CODES: H F R P 2*3 2

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800)424-9300
DATE PRINTED: 04/02/98
INFORMATION PHONE: (800)752-1566
NAME OF PREPARER: N/A

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE mmHg</th>
<th>@TEMP (F)</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>67-64-1</td>
<td>185.5</td>
<td>68</td>
</tr>
</tbody>
</table>

OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm

* DI(2-ETHYLHEXYL)PHTHALATE
CAS NUMBER: 117-81-7
VAPOR PRESSURE: 0
@TEMP: 68
WEIGHT PERCENT: 1.39

OSHA PEL: 5 MG/M3, ACGIH TLV: 5 MG/M3

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 133 - 723
SPECIFIC GRAVITY (H2O=1): 0.81

VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER

COATING V.O.C.: 0.53 lb/gl
MATERIAL V.O.C.: 0.04 lb/gl

COATING V.O.C.: 63 g/l
MATERIAL V.O.C.: 5 g/l

SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR: Clear liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): 1
METHOD USED: TOC
PLANMABLE LIMITS IN AIR BY % VOLUME - LOWER: .3
UPPER: 12.8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER

SPECIAL FIREFIGHTING PROCEDURES
Use approved self-contained breathing apparatus. Do not use direct stream of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat, sparks or open flames
INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

====================  SECTION VI - HEALTH HAZARD DATA ===================

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation: May cause respiratory tract irritation.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin and eye contact: May cause irritation to both.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption: May cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause eye, nose and respiratory tract irritation, headache, drowsiness and nausea. Ingestion may cause vomiting and subsequent aspiration of liquid into the lungs may lead to chemical pneumonia and pulmonary edema. Chronic: Long term exposure may lead to central nervous system depression.

CARCINOGENICITY: NTP CARCINOGEN: Yes IARC MONOGRAPHS: Yes OSHA REGULATED: No
This material contains Di(2-ethylhexyl) phthalate, which is classified as a possible carcinogen for humans (2B) by IARC and NTP.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. IF BREATHING STOPS, GIVE ARTIFICIAL RESPIRATION. SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION IMMEDIATELY.

====================  SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ===================

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS.

WASTE DISPOSAL METHOD
Place in tightly closed containers and dispose of in accordance with local, state and federal regulations.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store away from high temperatures and open flames. Keep containers tightly closed. Use with adequate ventilation.

OTHER PRECAUTIONS
Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION
Follow OSHA regulation 29CFR 1910.134 for respirator use. Use air-purifying respirator that respirator supplier has demonstrated to be effective for solvent vapors when concentrations exceed the TLV up to the maximum level at which the respirator is effective. If the concentration of solvents is not known, use positive pressure air-supplied respirator.

VENTILATION
Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

PROTECTIVE GLOVES
Chemical resistant gloves

EYE PROTECTION
Chemical goggles, safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Eye bath and safety shower

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

SECTION IX - DISCLAIMER

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PCL POLYPRIMER GRAY
PRODUCT CODE: 901

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800)424-9300
DATE PRINTED: 03/31/98
NAME OF PREPARER: N/A

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>mmHg @ TEMP (F)</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-42-5</td>
<td>4.5</td>
<td>15.77</td>
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</tbody>
</table>

* STYRENE
OSHA PEL: 100 PPM, ACGIH TLV: 50 PPM
TITANIUM DIOXIDE (as total nuisance dust)
OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m²
CALCIUM CARBONATE (as total nuisance dust)
ACGIH TLV: 10 mg/m³
* ACETONE
OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm
* SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC
OSHA PEL: 400 ppm, ACGIH TLV: 400 ppm
* METHYL ISOBUTYL KETONE
OSHA PEL: 100 ppm, ACGIH TLV: 50 ppm
* METHYL ETHYL KETONE
OSHA PEL: 200 ppm, ACGIH TLV: 200 ppm
n-BUTYL ACETATE
ACGIH TLV: 150 ppm
* CO 2-ETHYLHEXANOATE
OSHA PEL: 0.1 MG/M³, ACGIH TLV: 0.05 MG/M³

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 133 - 295
SPECIFIC GRAVITY (H2O=1): 1.35
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 1.18 lb/gl
MATERIAL V.O.C.: 1.10 lb/gl
COATING V.O.C.: 141 g/l
MATERIAL V.O.C.: 131 g/l
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Gray liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): 1
METHOD USED: TOC
FLAMMABLE LIMITS IN AIR BY % VOLUME - LOWER: 1
FLAMMABLE LIMITS IN AIR BY % VOLUME - UPPER: 12.8
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER
SPECIAL FIREFIGHTING PROCEDURES
Use approved self-contained breathing apparatus. Do not use direct stream of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.

-------------------------------- SECTION V - REACTIVITY DATA --------------------------------

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

----------------- SECTION VI - HEALTH HAZARD DATA -----------------

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation: May cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in narcosis.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Eye contact: May cause severe irritation, redness, tearing and blurred vision. Skin contact: May cause moderate irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption: May cause irritation, defatting and dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause eye, nose, respiratory tract and skin irritation, headache, drowsiness and nausea. Ingestion may result in vomiting; aspiration (breathing in) into the lungs may result in aspiration pneumonitis. Chronic: Long term exposure may lead to central nervous system depression, dermatitis and liver and kidney damage.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: Yes OSHA REGULATED: No
This material contains a cobalt compound and styrene; both are classified as possible carcinogens for humans (2B) by IARC.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES
INHALATION: MOVE PERSON TO FRESH AIR. PROVIDE ARTIFICIAL RESPIRATION OR OXYGEN IF BREATHING IS DIFFICULT. EYE & SKIN CONTACT: FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. WASH AFFECTED AREAS WITH SOAP AND WATER IMMEDIATELY. REMOVE CONTAMINATED CLOTHING. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVe ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS.

WASTE DISPOSAL METHOD
Place in tightly closed containers and dispose of in accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store away from high temperatures and open flames. Keep containers tightly closed. Use with adequate ventilation.

OTHER PRECAUTIONS
Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION
Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Where vapor does not exceed TLV limits, use NIOSH approved respirator.

VENTILATION
Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

PROTECTIVE GLOVES
Chemical resistant gloves

EYE PROTECTION
Chemical goggles, safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Eye bath and safety shower

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

SECTION IX - REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65
This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Contains: Toluene (trace)

This product contains a chemical known to the State of California to cause cancer.
Contains: Benzene (trace) and Crystalline Silica (trace).
The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EUROSEAL NON SANDING PRIMER SEALER GRAY
PRODUCT CODE: 701

HMI CS CODES: H F R P 2*3 0

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800)-424-9300
DATE PRINTED: 07/09/99
NAME OF PREPARER: N/A

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>REPORTABLE COMPONENTS</th>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE @ TEMP (F)</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITANIUM DIOXIDE (as total nuisance dust)</td>
<td>13463-67-7</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* PARACHLOROBENZOTRIFLUORIDE</td>
<td>98-56-6</td>
<td>5.3</td>
<td>68</td>
</tr>
<tr>
<td>OSHA PEL: NE, ACGIH TLV: NE</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>n-BUTYL ACETATE</td>
<td>123-86-4</td>
<td>8.4</td>
<td>68</td>
</tr>
<tr>
<td>ACGIH TLV: 150 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACETONE</td>
<td>67-64-1</td>
<td>185.5</td>
<td>68</td>
</tr>
<tr>
<td>OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm</td>
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<td></td>
</tr>
<tr>
<td>METHYL AMYL KETONE, 2-HEPTANONE/</td>
<td>110-43-0</td>
<td>2.14</td>
<td>68</td>
</tr>
<tr>
<td>ACGIH TLV: 50 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* TOLUENE</td>
<td>108-88-3</td>
<td>21.8</td>
<td>68</td>
</tr>
<tr>
<td>OSHA PEL: 200 ppm, ACGIH TLV: 100 ppm</td>
<td></td>
<td></td>
<td>0.44</td>
</tr>
</tbody>
</table>

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/ChemICAL CHARACTERISTICS

BOILING RANGE (Deg F): 133 - 304
VAPOR DENSITY: HEAVIER THAN AIR
COATING V.O.C.: 2.25 lb/gl
COATING V.O.C.: 269 g/l
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Gray liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): 1
METHOD USED: TOC
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .9 UPPER: 12.8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES
Use self-contained breathing apparatus. Water may be used to cool closed container to prevent pressure build-up.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame or high intensity source of heat.
SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat and open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation: May cause irritation of the respiratory system, dizziness, nausea, headache, loss of coordination and unconsciousness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Eye contact: May cause irritation. Skin contact: May cause defatting of the skin with resultant irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption: May cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion: Maybe harmful if swallowed in large quantities. Symptoms can include sore throat, abdominal pain, nausea vomiting and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Chronic: Prolonged and repeated contact to organic solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Acute: Long term exposure may lead to irritation in the eyes, skin, and respiratory system.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT.
SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION IMMEDIATELY.
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. SOAK UP WITH DIATOMACEOUS SILICA AND PICK UP WITH A SHOVEL. FOR LARGE SPILLS, USE WATER SPRAY TO DILUTE SPILL TO A NONCOMBUSTIBLE MIXTURE. PREVENT RUNOFF FROM ENTERING DRAINS AND SEWER.

WASTE DISPOSAL METHOD
Incinerate under safe conditions or dispose of in accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store away from excessive heat, sparks and open flames. Keep containers tightly closed.

OTHER PRECAUTIONS
Do not take internally. Avoid prolonged contact or inhalation. Ground equipment to reduce electrical sparking hazard. Empty containers must be handled with care due to product residue and flammable solvent vapor.

SECTION VIII - CONTROL MEASURES

RESSPIRATORY PROTECTION
Use approved self-contained breathing apparatus where vapor concentration may be above TLV limits.

VENTILATION
Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

PROTECTIVE GLOVES
Chemical resistant gloves

EYE PROTECTION
Safety goggles or glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Eye bath and safety shower

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

SECTION IX - REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Contains: Toluene

This product contains a chemical known to the State of California to cause cancer.
Contains: Benzene (trace)
SECTION X - DISCLAIMER

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ENVIRO-FINISH URETHANE CATALYST
PRODUCT CODE: 6340-98
HMIS CODES: H F R P

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800)424-9300
DATE PRINTED: 07/02/98
INFORMATION PHONE: (800)752-1566

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
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<tr>
<th>HOMOPOLYMER OF HDI</th>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE</th>
<th>VAPOR PRESSURE</th>
</tr>
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<tbody>
<tr>
<td>OSHA PEL: N/E, ACGIH TLV: N/E, OTHER: 1 mg/m3</td>
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<td>METHYL PROPYL KETONE</td>
<td>107-87-9</td>
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<td>OSHA PEL: 200 ppm, ACGIH TLV: 200 ppm</td>
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<td>OXO-HEXYL ACETATE</td>
<td>88230-35-7</td>
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<td>OSHA PEL: N/E, ACGIH TLV: N/E</td>
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<td></td>
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<tr>
<td>METHYL ISOBUTYL KETONE</td>
<td>108-10-1</td>
<td>14.5</td>
<td>68</td>
</tr>
<tr>
<td>OSHA PEL: 100 ppm, ACGIH TLV: 50 ppm</td>
<td></td>
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<tr>
<td>XYLENE</td>
<td>1330-20-7</td>
<td>6.1</td>
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<td>OSHA PEL: 100 ppm, ACGIH TLV: 100 ppm</td>
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<tr>
<td>n-BUTYL ACETATE</td>
<td>123-86-4</td>
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<td>68</td>
</tr>
<tr>
<td>ACGIH TLV: 150 ppm</td>
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</tbody>
</table>

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 220 - 330
SPECIFIC GRAVITY (H2O=1): 0.95
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 4.35 lb/gl
MATERIAL V.O.C.: 4.35 lb/gl
COATING V.O.C.: 521 g/l
MATERIAL V.O.C.: 521 g/l
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Pale yellow liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): 46
METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY % VOLUME - LOWER: 1
UPPER: 8
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES
Use approved gas mask and full protective clothing. Water may be used to cool closed container to prevent pressure build-up and possible explosions due to extreme heat.
2

UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep away from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat due to pressure build-up.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizing agents, isocyanates and acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Thermal decomposition may yield CO and/or CO2, oxides of nitrogen amines & other aliphatic fragments.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation: May cause irritation to nose, throat and respiratory tract. High vapor concentrations may cause CNS depression. May cause irritation of the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction).

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin and eye contact: May result in dry, defatted and cracked skin causing increased susceptibility to infection or dermatitis. Irritated eyes may cause tearing, reddening and swelling. Prolonged exposure may cause conjunctivitis.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption may cause systemic effects similar to those identified under inhalation effects.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion may result in irritation and possible corrosive action in the mouth, stomach and digestive tract. Vomiting may cause aspiration resulting in chemical pneumonitis.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause eye, nose and skin irritation, headache, dizziness and nausea. Ingestion may result in vomiting; aspiration of liquid into the lungs may result in aspiration pneumonitis. Chronic: Long term exposure may lead to central nervous system depression and dermatitis.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Asthma and any other respiratory disorders (bronchitis, emphysema, hyperreactivity), skin allergies and eczema.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY. SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. SOAK UP WITH DIATOMACEOUS SILICA AND PICK UP WITH A SHOVEL. FOR LARGE SPILLS, USE WATER SPRAY TO DILUTE SPILL TO A NONCOMBUSTIBLE MIXTURE. PREVENT RUNOFF FROM ENTERING DRAINS AND SEWER.

WASTE DISPOSAL METHOD
Incinerate under safe conditions or dispose of in accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store away from excessive heat, sparks, and open flame. Keep containers tightly closed. This product contains a chemical substance that is reportable under the Significant New Use Rule (SNUR), reference EPA's CFR721.2980 and CFR 721.9--Release to water.

OTHER PRECAUTIONS
Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION
Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Where vapor does not exceed TLV limits, use NIOSH approved respirator.

VENTILATION
Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

PROTECTIVE GLOVES
Chemical resistant gloves

EYE PROTECTION
Chemical goggles, safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Eye bath and safety shower

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

SECTION IX - DISCLAIMER

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
PRODUCT NAME: EUROCLEAR II 3.5 VOC CLEAR
PRODUCT CODE: 2300A

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800)-424-9300
INFORMATION PHONE: (800)752-1566
DATE PRINTED: 06/16/99
NAME OF PREPARER: N/A

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE mmHg</th>
<th>@TEMP (F)</th>
<th>PERCENT</th>
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<td>ACETONE</td>
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<td>68</td>
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<td>n-BUTYL ACETATE; BUTYL ETHANOATE</td>
<td>123-86-4</td>
<td>8</td>
<td>68</td>
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<td>n-BUTYL ACETATE</td>
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<td>XYLENE</td>
<td>1330-20-7</td>
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<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>21.8</td>
<td>68</td>
</tr>
</tbody>
</table>

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 133 - 285
SPECIFIC GRAVITY (H2O=1): 0.96
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 3.00 lb/gl
MATERIAL V.O.C.: 2.29 lb/gl
COATING V.O.C.: 359 g/l
MATERIAL V.O.C.: 274 g/l
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: Pale yellow liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): 1
METHOD USED: TOC
FLAMMABLE LIMITS IN AIR BY % VOLUME: LOWER: 1
UPPER: 12.8
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES
Use approved self-contained breathing apparatus. Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep away from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat due to pressure build-up.
SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizing agents, isocyanates and acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Thermal decomposition may yield CO and/or CO₂, oxides of nitrogen amines & other aliphatic fragments.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation: Excessive inhalation of vapors may cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in narcosis.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin contact may cause irritation. Symptoms of skin irritation may be reddening, swelling, scaling or blistering. Eye contact may cause tearing, reddening and swelling of the eyes.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption may cause systemic effects similar to those identified under inhalation effects.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause eye, nose and skin irritation, headache, dizziness and nausea. Ingestion may result in vomiting; aspiration of liquid into the lungs may result in aspiration pneumonitis. Chronic: Long term exposure may lead to central nervous system depression and dermatitis.

CARCINOGENICITY: NTP CARCINOGEN: No  IARC MONOGRAPHS: No  OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.
SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER.
REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. FOR SEVERAL EXPOSURES GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING, THEN GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER TO DRINK. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. CONSULT PHYSICIAN IMMEDIATELY.
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

ELIMINATE ALL SOURCES OF IGNITION. ABSORB WITH INERT MATERIAL (SAND, VERMICULITE, ETC.), SWEEP OR SCOOP UP AND PUT IN DISPOSAL CONTAINER. FLUSH AREA OF SPILL WITH WATER.

WASTE DISPOSAL METHOD
Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue and flammable solvent vapor. Decontaminate containers prior to disposal. DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep away from heat, sparks and open flame. Ground containers during storage and transfer operations. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes.

OTHER PRECAUTIONS
Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

RESPIRATORY PROTECTION
Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Below TLV limits, use a combination vapor and particulate respirator for spray application or a vapor respirator for non-spray applications.

VENTILATION
Exhaust ventilation sufficient to keep the airborne concentration of the solvents, HDI and polyisocyanate below their respective TLV's must be utilized.

PROTECTIVE GLOVES
Chemical resistant gloves. Cover as much of the skin area as possible with appropriate clothing.

EYE PROTECTION
Safety glasses, splash goggles or face shield. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Safety showers and eyewash stations should be provided.

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

CALIFORNIA PROPOSITION 65
This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Contains: Toluene

This product contains a chemical known to the State of California to cause cancer.
Contains: Benzene (trace)
SECTION I - DISCLAIMER

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EUROCLEAR II 3.5 VOC CATALYST
PRODUCT CODE: 2398B
HMIS CODES: H F R Fl

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683

EMERGENCY PHONE (CHEMTREC): (800)-424-9300
INFORMATION PHONE: (800) 752-1566
DATE PRINTED: 06/16/99
NAME OF PREPARER: N/A

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

<table>
<thead>
<tr>
<th>REPORTABLE COMPONENTS</th>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE @ TEMP (F)</th>
<th>WEIGHT PERCENT</th>
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<tbody>
<tr>
<td>n-BUTYL ACETATE; BUTYL ETHANOATE</td>
<td>123-86-4</td>
<td>8</td>
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<td>OSHA PEL: 150 ppm, ACGIH TLV: 150 ppm</td>
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<td>HOMOPOLYMER OF HDI</td>
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<td>WHITE SPIRITS</td>
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<td>OXO-HEXYL ACETATE</td>
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<td>AROMATIC 100</td>
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<td>* 1,2,4-TRIMETHYLBENZENE</td>
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<td>OSHA PEL: 400 ppm, ACGIH TLV: 50 ppm</td>
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* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 252 - 330
SPECIFIC GRAVITY (H2O=1): 0.97
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 4.64 lb/gl
MATERIAL V.O.C.: 4.64 lb/gl
COATING V.O.C.: 556 g/l
MATERIAL V.O.C.: 556 g/l
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: Pale yellow liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): 78
METHOD USED: TOC
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .9 UPPER: 8
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES
Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During fire, HDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition.
UNUSUAL FIRE AND EXPLOSION HAZARDS
Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat or burst when contaminated with water. Solvent vapors may be heavier than air. Stagnant air may cause vapors to accumulate and travel along the ground to an ignition source which may result in a flash back to the source of the vapor.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Water, amines, strong bases, alcohols, metal compounds and surface active materials

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Carbon dioxide, carbon monoxide, oxides of nitrogen, traces of HCN and HDI

HAZARDOUS POLYMERIZATION: MAY OCCUR
May occur if in contact with moisture or other materials which react with isocyanates. May occur at temp. over 400 Deg F

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
May cause irritation of the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction).

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin contact may cause irritation. Symptoms of skin irritation may be reddening, swelling, scaling or blistering. Eye contact may cause tearing, reddening and swelling of the eyes.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption may cause systemic effects similar to those identified under inhalation effects.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion may result in irritation and possible corrosive action in the mouth, stomach and digestive tract.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause irritation of the mucous membranes, eyes, skin and throat. Other symptoms are headache, nausea, fatigue and loss of appetite. Ingestion may cause vomiting which may result in aspiration of the solvent resulting in chemical pneumonitis. Chronic: May cause lung damage, skin sensitization and neurotoxic effects including permanent brain and nervous system damage.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Asthma and any other respiratory disorders (bronchitis, emphysema, hyperreactivity), skin allergies and eczema.
EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.
SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 1
MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER.
REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. FOR SEVERAL
EXPOSURES GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING, THEN GET MEDICAL
ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER
TO DRINK. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.
CONSULT PHYSICIAN IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. COVER THE SPILL WITH
SAWDUST, VERMICULITE OR OTHER ABSORBENT MATERIAL. COLLECT MATERIAL IN OPEN
CONTAINERS. REMOVE CONTAINERS TO A SAFE PLACE AND ALLOW TO STAND FOR 24 TO 48
HOURS.

WASTE DISPOSAL METHOD
Waste must be disposed of in accordance with federal, state and local environmental control
regulations. Incineration is the preferred method. Empty containers must be handled with care
due to product residue and flammable solvent vapor. Decontaminate containers prior to disposal.
DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep away from heat, sparks and open flame. Ground containers during storage and transfer
operations. Store in tightly closed containers to prevent moisture contamination. Do not reseal
if contamination is suspected. Avoid contact with skin and eyes.

OTHER PRECAUTIONS
If container is exposed to high heat, it can be pressurized and possibly rupture explosively.
HDI reacts slowly with water to form carbon dioxide (CO2) gas. This gas can cause sealed
containers to expand and possibly rupture explosively.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION
Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Below
TLV limits, use a combination vapor and particulate respirator for spray application or a vapor
respirator for non-spray applications.

VENTILATION
Exhaust ventilation sufficient to keep the airborne concentration of the solvents, HDI and
polyisocyanate below their respective TLV's must be utilized.

PROTECTIVE GLOVES
Chemical resistant gloves. Cover as much of the skin area as possible with appropriate clothing.

EYE PROTECTION
Safety glasses, splash goggles or face shield. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Safety showers and eyewash stations should be provided.

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.
SECTION IX - REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

None.

SECTION X - DISCLAIMER

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
PRODUCT NAME: PREMIUM PRODUCTION EUROCLEAR
PRODUCT CODE: 2400

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800) 424-9300 DATE PRINTED: 02/04/00
INFORMATION PHONE: (800) 752-1566 NAME OF PREPARER: N/A

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

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<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
<th>MMHG</th>
<th>@TEMP(°F)</th>
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<td>n-BUTYL ACETATE</td>
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<td>ACETONE</td>
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<td>68</td>
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<td>OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm</td>
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<td>TOLUENE</td>
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<td>1.05</td>
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<td>OSHA PEL: 200 ppm, ACGIH TLV: 100 ppm</td>
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* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 133 - 282
VAPOR DENSITY: HEAVIER THAN AIR
COATING V.O.C.: 1.84 lb/gl
COATING V.O.C.: 220 g/l
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: Pale yellow liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): 1
METHOD USED: TOC
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .9 UPPER: 12.8
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES
Use approved self-contained breathing apparatus. Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep away from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat due to pressure build-up.

SECTION V - REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizing agents, isocyanates and acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Thermal decomposition may yield CO and/or CO2, oxides of nitrogen amines & other aliphatic fragments.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation: Excessive inhalation of vapors may cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in narcosis.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin contact may cause irritation. Symptoms of skin irritation may be reddening, swelling, scaling or blistering. Eye contact may cause tearing, reddening and swelling of the eyes.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption may cause systemic effects similar to those identified under inhalation effects.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause eye, nose and skin irritation, headache, dizziness and nausea. Ingestion may result in vomiting; aspiration of liquid into the lungs may result in aspiration pneumonitis. Chronic: Long term exposure may lead to central nervous system depression and dermatitis.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.
SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. FOR SEVERAL EXPOSURES GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING, THEN GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER TO DRINK. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. CONSULT PHYSICIAN IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

ELIMINATE ALL SOURCES OF IGNITION. ABSORB WITH INERT MATERIAL (SAND, VERMICULITE, ETC.), SWEEP OR SCOOP UP AND PUT IN DISPOSAL CONTAINER. FLUSH AREA OF SPILL WITH WATER.
WASTE DISPOSAL METHOD
Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue and flammable solvent vapor. Decontaminate containers prior to disposal. DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep away from heat, sparks and open flame. Ground containers during storage and transfer operations. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes.

OTHER PRECAUTIONS
Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION
Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Below TLV limits, use a combination vapor and particulate respirator for spray application or a vapor respirator for non-spray applications.

VENTILATION
Exhaust ventilation sufficient to keep the airborne concentration of the solvents, HDI and polyisocyanate below their respective TLV's must be utilized.

PROTECTIVE GLOVES
Chemical resistant gloves. Cover as much of the skin area as possible with appropriate clothing.

EYE PROTECTION
Safety glasses, splash goggles or face shield. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Safety showers and eyewash stations should be provided.

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

SECTION IX - REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65
This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Contains: Toluene

This product contains a chemical known to the State of California to cause cancer.
Contains: Benzene (trace)

SECTION X - DISCLAIMER

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PREMIUM PRODUCTION EUROCLEAR CATALYST
PRODUCT CODE: 2498
HMIS CODES: H F R I

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PACIFIC COAST LACQUER
ADDRESS: 3150 E. PICO BLVD.
LOS ANGELES, CA 90023-3683
EMERGENCY PHONE (CHEMTREC): (800) 424-9300
DATE PRINTED: 02/04/00
INFORMATION PHONE: (800)752-1566

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>mmHg @ Temp (°F)</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>* PARACHLOROBENZOTRIFLUORIDE</td>
<td>98-56-6</td>
<td>5.3</td>
</tr>
<tr>
<td>OSHA PEL: NE, ACGIH TLV: NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOMOPOLYMER OF HDI</td>
<td>28182-81-2</td>
<td>0</td>
</tr>
<tr>
<td>OSHA PEL: N/E, ACGIH TLV: N/E, OTHER: 1 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OXO-HEXYL ACETATE</td>
<td>88230-35-7</td>
<td>1.4</td>
</tr>
<tr>
<td>OSHA PEL: N/E, ACGIH TLV: N/E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHITE SPIRITS</td>
<td>64742-82-1</td>
<td>3</td>
</tr>
<tr>
<td>OSHA PEL: NE, ACGIH TLV: NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AROMATIC 100</td>
<td>64742-95-6</td>
<td>1</td>
</tr>
<tr>
<td>OSHA PEL: N/E, ACGIH TLV: N/E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* 1,2,4-TRIMETHYLBENZENE</td>
<td>95-63-6</td>
<td>1.7</td>
</tr>
<tr>
<td>OSHA PEL: 400 ppm, ACGIH TLV: 50 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-BUTYL ACETATE</td>
<td>123-86-4</td>
<td>8.4</td>
</tr>
<tr>
<td>ACGIH TLV: 150 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE (Deg F): 259 - 330
VAPOR DENSITY: HEAVIER THAN AIR
COATING V.O.C.: 2.81 lb/gl
COATING V.O.C.: 336 g/l
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: Pale yellow liquid with mild odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Deg F): 78
METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .9 UPPER: 10.5
EXTINCTION MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES
Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During fire, HDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition.
UNUSUAL FIRE AND EXPLOSION HAZARDS
Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat or burst when contaminated with water. Solvent vapors may be heavier than air. Stagnant air may cause vapors to accumulate and travel along the ground to an ignition source which may result in a flash back to the source of the vapor.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)
Water, amines, strong bases, alcohols, metal compounds and surface active materials

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Carbon dioxide, carbon monoxide, oxides of nitrogen, traces of HCN and HDI

HAZARDOUS POLYMERIZATION: MAY OCCUR
May occur if in contact with moisture or other materials which react with isocyanates. May occur at temp. over 400 Deg F

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
May cause irritation of the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction).

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin contact may cause irritation. Symptoms of skin irritation may be reddening, swelling, scaling or blistering. Eye contact may cause tearing, reddening and swelling of the eyes.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Skin absorption may cause systemic effects similar to those identified under inhalation effects.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Ingestion may result in irritation and possible corrosive action in the mouth, stomach and digestive tract.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Acute: May cause irritation of the mucous membranes, eyes, skin and throat. Other symptoms are headache, nausea, fatigue and loss of appetite. Ingestion may cause vomiting which may result in aspiration of the solvent resulting in chemical pneumonitis. Chronic: May cause lung damage, skin sensitization and neurotoxic effects including permanent brain and nervous system damage.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Asthma and any other respiratory disorders (bronchitis, emphysema, hyperreactivity), skin allergies and eczema.
EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.
SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER.
REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. FOR SEVERAL EXPOSURES GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING, THEN GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER TO DRINK. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. CONSULT PHYSICIAN IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. COVER THE SPILL WITH SAWDUST, VERMICULITE OR OTHER ABSORBENT MATERIAL. COLLECT MATERIAL IN OPEN CONTAINERS. REMOVE CONTAINERS TO A SAFE PLACE AND ALLOW TO STAND FOR 24 TO 48 HOURS.

WASTE DISPOSAL METHOD
Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue and flammable solvent vapor. Decontaminate containers prior to disposal.
DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep away from heat, sparks and open flame. Ground containers during storage and transfer operations. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes.

OTHER PRECAUTIONS
If container is exposed to high heat, it can be pressurized and possibly rupture explosively.
HDI reacts slowly with water to form carbon dioxide (CO2) gas. This gas can cause sealed containers to expand and possibly rupture explosively.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION
Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Below TLV limits, use a combination vapor and particulate respirator for spray application or a vapor respirator for non-spray applications.

VENTILATION
Exhaust ventilation sufficient to keep the airborne concentration of the solvents, HDI and polyisocyanate below their respective TLV's must be utilized.

PROTECTIVE GLOVES
Chemical resistant gloves. Cover as much of the skin area as possible with appropriate clothing.

EYE PROTECTION
Safety glasses, splash goggles or face shield. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Safety showers and eyewash stations should be provided.

WORK/HYGIENIC PRACTICES
Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.
SECTION IX - REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

None.

SECTION X - DISCLAIMER

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.
IMPORTANT INFORMATION Enclosed
DuPont Material Safety Data Sheets
For Compliance with
OSHA Standard 29CFR§1910.1200
Section I - Manufacturer

Manufacturer: DuPont Co.
Automotive
Wilmington, Delaware 19898

Telephone:
Product information (800) 441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Metal treatments 224S, 225S, 226S, 227S, 230S, 244S,
5717S, 5718S.

DOT Shipping Name: See DOT addendum.

Section II - Hazardous Ingredients

(See Section X)

Vapor Pressure

Ingredients CAS No. (20°C, mm Hg) Exposure Limits *

Chromic acid
Ethylene glycol monobutyl ether
Isopropyl alcohol
Nickel phosphates
Octylphenoxyethoxyethanol surfactant
Organofunctional ester
Phosphoric acid
Potassium fluoride
Water
Zinc oxide

Section III - Physical Data

Evaporation rate: Less than ether
Vapor Density: Heavier than air
Solubility in water: Miscible
Percent volatile by volume: 49.6%- 99.6%
Percent volatile by weight: 45%- 99%
Boiling range: 26°C- 175°C/ 79°F- 347°F
Gallon weight: 7.20- 9.64 lbs./gallon

Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.
Flammable limits: 0.5%- 25.0%
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended.
Water from fog nozzles may be used to cool vessels to prevent pressure build up.
Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V - Health Hazard Data

General Effects:
Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available.
Inhalation: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.

Inhalation: May cause throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye, nose, and throat irritation. Headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: These products are not designed to be spayed or atomized. (Except for 230S, follow dilution directions on label). Severe skin or eye irritation can result. Treat as a strong acid burn. Flush with water for at least 15 minutes, seek medical attention IMMEDIATELY. May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In cases of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Specific Effects:
Chromic Acid Chromic acid overexposure causes severe irritation to eyes and may cause blindness. May cause deep, painful penetrating ulcers on skin. May cause severe irritation of the respiratory tract and nasal sepsis and possible perforation. Prolonged or repeated eye contact may cause conjunctivitis. solutions can be absorbed through the skin in harmful amounts leading to kidney failure and death. Death has been avoided in several cases through early renal dialysis. Implantation studies have produced lung cancers in laboratory animals. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Is an IARC, NTP or OSHA carcinogen. WARNING: This chemical is known to the State of California to cause cancer. Ethylene Glycol Monobutylether Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Isopropyl Alcohol Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. Nickel Phosphate Has shown mutagenic activity in laboratory cell culture tests. WARNING: This chemical is known to the State of California to cause cancer. Octylphenoxyethoxyethanol Surfactant Causes eye corrosion and permanent injury. Contact may cause skin irritation with discomfort or rash. Organofunctional Ester Can be absorbed through the skin in harmful amounts. Contact may cause skin irritation with discomfort or rash. Prolonged skin contact may cause chemical burns. Causes eye corrosion and permanent injury.
Phosphoric Acid Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns.

Potassium Fluoride May cause anemia. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Contact may cause skin irritation with discomfort, tearing, or blurred vision. Toluene Recurrent exposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm. Zinc Oxide May cause abnormal liver function.

Section VI - Reactivity Data

Stability: Stable

Incompatibility (materials to avoid): None reasonably foreseeable.

Hazardous decomposition products: CO, CO₂, smoke.

Hazardous polymerization: Will not occur.

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:

- Ventilate area. Remove sources of ignition.
- Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing.
- Confine and remove with inert absorbent.

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

Section VIII - Special Protection Information

Respiratory: Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer’s directions for respirator use. Do not permit anyone without protection in the painting area.

Ventilation: Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Protective clothing: Neoprene gloves and coveralls are recommended.

Eye protection: Desirable in all industrial situations. Include splash guards or side shields.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame.

Close container after each use. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

Other precautions: Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

Section X - Other Information

Section 313 Supplier Notification: The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

PRODUCT CODE  INGREDIENTS (See Section II)

224S phosphoric acid (7%), water, zinc oxide (2%), GAL WT: 8.81 WT PCT SOLIDS: 10.24 VOL PCT SOLIDS: 4.95

SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0 H: 2 F: 1 R: 1 FLASH PT: ABOVE 200°F (CC) OSHA STORAGE: IIIIB

225S ethylene glycol monobutyl ether (14%), octylphenoxypolyethoxyethanol surfactant, phosphoric acid (22%), potassium fluoride, water, GAL WT: 9.32 WT PCT SOLIDS: 26.34 VOL PCT SOLIDS: 15.74

SOLVENT DENSITY: 8.15 VOC LE: 3.9 VOC AP: 1.3 H: 2 F: 1 R: 1 FLASH PT: ABOVE 200°F (CC) OSHA STORAGE: IIIIB

226S chronic acid (1%), water, GAL WT: 8.37 WT PCT SOLIDS: 1.01 VOL PCT SOLIDS: 0.38

SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0 H: 0 F: 1 R: 0 FLASH PT: ABOVE 200°F (CC) OSHA STORAGE: IIIIB

227S phosphoric acid (8%), water, zinc oxide (2%), GAL WT: 8.79 WT PCT SOLIDS: 10.05 VOL PCT SOLIDS: 4.93

SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0 H: 2 F: 1 R: 1 FLASH PT: ABOVE 200°F (CC) OSHA STORAGE: IIIIB

230S isopropyl alcohol, organofunctional ester, GAL WT: 7.26 WT PCT SOLIDS: 55.00 VOL PCT SOLIDS: 50.39


244S isopropyl alcohol, water, GAL WT: 7.87 WT PCT SOLIDS: 0.75 VOL PCT SOLIDS: 0.34

SOLVENT DENSITY: 7.28 VOC LE: 6.5 VOC AP: 3.8 H: 1 F: 3 R: 0 FLASH PT: BETWEEN 20 - 73°F (CC) OSHA STORAGE: IB

5717S ethylene glycol monobutylether (15%), phosphoric acid (31%), water, GAL WT: 6.64 WT PCT SOLIDS: 32.06 VOL PCT SOLIDS: 10.25

SOLVENT DENSITY: 8.11 VOC LE: 3.8 VOC AP: 1.5 H: 2 F: 2 R: 1 FLASH PT: BETWEEN 140 - 200°F (CC) OSHA STORAGE: IIIIA

5718S nickel phosphate (0.5%), phosphoric acid (7%), water, zinc oxide (3%), GAL WT: 8.65 WT PCT SOLIDS: 10.24 VOL PCT SOLIDS: 4.53

SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0 H: 2 F: 1 R: 1 FLASH PT: ABOVE 200°F (CC) OSHA STORAGE: IIIIB

Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales

Prepared by D. G. Detweiler
Section I - Manufacturer

Manufacturer:
DuPont Co.
Automotive
Wilmington, Delaware 19898

Telephone:
Product information (800)441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Waterborne Products

OSHA Hazard Class: Combustible; Not Regulated
DOT Shipping Name: See DOT addendum.
Hazardous Materials Information: See Section X.

Section II - Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Vapor Pressure (20°C, mm Hg)</th>
<th>Exposure Limits *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-66-1</td>
<td>184.0</td>
<td>500 ppm-A 8hr TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1000 ppm-O 8hr TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>750 ppm-A 15 min(STEL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>500 ppm-D 8&amp;12 hr</td>
</tr>
<tr>
<td>Acrylic polymer</td>
<td>Not Available</td>
<td>None</td>
<td>None-0</td>
</tr>
<tr>
<td>Aliphatic hydrocarbon/aliphatic ester/surfactant</td>
<td>Not Available</td>
<td>0.2 @ 25°C</td>
<td>None-0</td>
</tr>
<tr>
<td>Aliphatic solvent mixture</td>
<td>Not Available</td>
<td>Unknown</td>
<td>None-0</td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>1330-31-6</td>
<td>450.0 @ 15.5°C</td>
<td>None-0</td>
</tr>
<tr>
<td>Aromatic hydrocarbon</td>
<td>64742-95-6</td>
<td>10.0 @ 25°C</td>
<td>None-0</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>7732-43-7</td>
<td>None</td>
<td>10 mg/m³-A Total Dust</td>
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<td></td>
<td></td>
<td></td>
<td>15 mg/m³-O Total Dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5 mg/m³-D Dust, 8 hr Resp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 mg/m³-D 8 hr TWA</td>
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<tr>
<td>Bisphenol A/Epoxy, phenolic resin</td>
<td>68334-76-9</td>
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</tr>
<tr>
<td>Bisphenol-epichlorohydrin type polymer</td>
<td>25068-38-6</td>
<td>None</td>
<td>None-0</td>
</tr>
<tr>
<td>Block polymer(polyglycols)</td>
<td>25067-11-2</td>
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<td>None-0</td>
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<td>Calcium carbonate</td>
<td>471-34-1</td>
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<td>10 mg/m³-A</td>
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<td></td>
<td></td>
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<td>15 mg/m³-O</td>
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<td>5 mg/m³-O Resp</td>
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<td>Carbon black</td>
<td>1333-86-4</td>
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<td>3.5 mg/m³-A</td>
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<td>.5 mg/m³-D</td>
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<td>Cumene</td>
<td>98-82-8</td>
<td>3.7</td>
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<td>Dipropropylene glycol monobutyl ether</td>
<td>29911-26-2</td>
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<td>Ethylene glycol monobutyl ether</td>
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<td>0.6</td>
<td>25 ppm-A Skin</td>
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<td></td>
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<td>50 ppm-O Skin</td>
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<td></td>
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<td>10 ppm-D Skin</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>Unknown</td>
<td>0.3 ppm-A Ceiling</td>
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<td></td>
<td></td>
<td></td>
<td>0.7 ppm-O</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>2 ppm-O 15 min(STEL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 ppm-D 8&amp;12 hr</td>
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<td></td>
<td></td>
<td>2 ppm-D O 15 min TWA</td>
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<tr>
<td>Hydrous Magnesium silicate</td>
<td>14907-96-6</td>
<td>None</td>
<td>2 mg/m³-A Resp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>None-0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.5 mg/m³-D Resp</td>
</tr>
<tr>
<td>Iron oxide-A</td>
<td>1309-37-1</td>
<td>None</td>
<td>None-0</td>
</tr>
</tbody>
</table>

Iron oxide-B 1309-37-1 None 5 mg/m³-A
Kaolin 1332-58-7 None 10 mg/m³-A
Medium mineral spirits 64742-88-7 None 100 ppm-D
Methyl alcohol 67-56-1 100.0 200 ppm-A Skin
n-Butoxypropanol 5131-66-8 0.6 None-0

Nonionic surfactant
Nonylphenoxypoly (ethyleneoxy) ethanol 9016-45-9 None
Polyether modified siloxane
Polyethylene amine mixture
Propylene glycol butyl ether 57018-52-7 4.6 @ 25°C None-0
Propylene glycol methyl ether 107-98-2 10.9 @ 25°C 100 ppm-A
Silica alumina ceramic
Titanium dioxide 13463-67-7 None
VM&P naphtha 64742-89-8 15 @ 37.8°C 300 ppm-A
Water 7732-18-5 23.6 None-0
Wollastonite 13983-17-0 None
Xylene 1330-20-7 7.0 @ 25°C 100 ppm-A
Zinc phosphate

Section III - Physical Data

Evaporation rate: Less than ether
Vapor Density: Heavier than air
Solubility in water: Miscible
Percent volatile by volume: 60.5% - 100.0%
Percent volatile by weight: 46%- 100%
Boiling range: 54°C-232° C/129°F-450°F
Gallon weight: 8.09 - 11.01 lb/gallon

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.
Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.
Flammable limits: 0.2% - 23%
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.
Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V - Health Hazard Data

General Effects:
Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.
Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness, and loss of coordination area signs that solvent levels are too high. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.
Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Specific Effects:
Acrylic Polymer Contact may cause skin irritation with discomfort or rash. May cause allergic skin rash, itching, swelling. Causes severe eye irritation. Formaldehyde has been shown to be a possible human carcinogen by the International Agency for Research on Cancer (IARC). May cause allergic skin rash, itching, swelling. Carbon Black Is an IARC, NTP or OSHA carcinogen. Ethylene Glycol and methanol may lead to kidney damage. A high percentage of people may be sensitive to methanol; a high percentage of people may be sensitive to methanol.

Section VI - Reactivity Data

Stability: Stable
Incompatibility (materials to avoid): None reasonably foreseeable.

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:
Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

Section VIII - Special Protection Information

Respiratory: Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

Ventilation: Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.
Other precautions: Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

Section X - Other Information
Section 313 Supplier Notification: The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

PRODUCT CODE: Ingredients (See section II)

210S acrylic polymer, carbon black, ethylene glycol monobutylether (1%), hydrous magnesium silicate, methyl alcohol (2%), titanium dioxide, water.
GAL WT: 10.80 WT PCT SOLIDS: 45.91 VOL PCT SOLIDS: 28.46
SOLVENT DENSITY: 8.17 VOC LE: 1.6 VOC AP: 0.6 H: 1 F: 2
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

2125S acrylic polymer, barium sulfate, carbon black, dipropylene glycol monobutyl ether, hydrous magnesium silicate, kaolin, n-butoxypropanol, titanium dioxide, water.
GAL WT: 10.37 WT PCT SOLIDS: 46.36 VOL PCT SOLIDS: 32.01
SOLVENT DENSITY: 8.17 VOC LE: 1.6 VOC AP: 0.7 H: 1 F: 2
R: 0 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

2140S acrylic polymer, ammonium hydroxide, barium sulfate, dipropylene glycol monobutyl ether, ethylene glycol monobutylether (1%), hydrous magnesium silicate, iron oxide-a, kaolin, n-butoxypropanol, water.
GAL WT: 10.50 WT PCT SOLIDS: 46.02 VOL PCT SOLIDS: 30.66
SOLVENT DENSITY: 8.17 VOC LE: 1.8 VOC AP: 0.7 H: 1 F: 2
R: 0 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

2220S acrylic polymer, calcium carbonate, dipropylene glycol monobutyl ether, ethylene glycol monobutylether (3%), hydrous magnesium silicate, iron oxide-b, methyl alcohol (2%), titanium dioxide, water.
GAL WT: 10.91 WT PCT SOLIDS: 47.73 VOL PCT SOLIDS: 30.06
SOLVENT DENSITY: 8.15 VOC LE: 1.9 VOC AP: 0.8 H: 1 F: 2
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

2405S ethylene glycol monobutylether (6%), polyether modified siloxane (1%), polyethylene amine mixture, propylene glycol butyl ether, water, 2-propoxyethanol (13%)
GAL WT: 8.36 WT PCT SOLIDS: 21.63 VOL PCT SOLIDS: 18.33
SOLVENT DENSITY: 8.02 VOC LE: 4.5 VOC AP: 2.1 H: 3 F: 2
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

2407S ethylene glycol monobutylether (6%), polyethylene amine mixture, propylene glycol butyl ether, water, 2-propoxyethanol (14%)
GAL WT: 8.36 WT PCT SOLIDS: 20.68 VOL PCT SOLIDS: 17.39
SOLVENT DENSITY: 8.03 VOC LE: 4.6 VOC AP: 2.1 H: 3 F: 2
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

2440S bisphenol a/epoxy, phenolic resin, bisphenol-epichlorhydrin type polymer, carbon black, hydrous magnesium silicate, silica-alumina ceramic (7%), titanium dioxide, water, wollastonite, zinc phosphate (5%), 2-propoxyethanol (4%)
GAL WT: 11.01 WT PCT SOLIDS: 53.82 VOL PCT SOLIDS: 38.05
SOLVENT DENSITY: 8.21 VOC LE: 1.4 VOC AP: 0.6 H: 2 F: 2
R: 0 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

275S bisphenol a/epoxy, phenolic resin, bisphenol-epichlorhydrin type polymer, carbon black, ethylene glycol monobutylether (1%), hydrous magnesium silicate, silica-alumina ceramic, titanium dioxide, water, wollastonite, zinc phosphate (9%), 2-propoxyethanol (4%)
GAL WT: 10.93 WT PCT SOLIDS: 54.50 VOL PCT SOLIDS: 39.41
SOLVENT DENSITY: 8.21 VOC LE: 1.4 VOC AP: 0.7 H: 2 F: 1
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

285S ethylene glycol monobutylether (2%), hydrous magnesium silicate, polyethylene amine mixture, propylene glycol methyl ether, titanium dioxide, water, wollastone, 2-propoxyethanol (6%)
GAL WT: 10.77 WT PCT SOLIDS: 42.25 VOL PCT SOLIDS: 23.64
SOLVENT DENSITY: 8.15 VOC LE: 3.3 VOC AP: 1.4 H: 3 F: 2
R: 1 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

3909S aliphatic solvent mixture, water.
GAL WT: 8.80 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 8.30 VOL PCT LE: 2.1 VOC AP: 0.5 H: 2 F: 1
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

3929S aromatic hydrocarbon, block polymer (polyglycols), cumene (0-1%), formaldehyde (0.1%), medium mineral spirit, nonylphenoxypoly(ethyleneoxy)ethanol, vm&p naphtha, water, xylene (1-2%), 1,2,4-trimethyl benzene (1-5%)
GAL WT: 8.03 WT PCT SOLIDS: 7.11 VOL PCT SOLIDS: 7.29
SOLVENT DENSITY: 8.05 VOC LE: 5.0 VOC AP: 1.3 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

3949S aliphatic hydrocarbon/aliphatic ester/surfactant, water.
GAL WT: 8.25 WT PCT SOLIDS: 0.14 VOL PCT SOLIDS: 0.15
SOLVENT DENSITY: 8.25 VOL PCT LE: 6.9 VOC AP: 0.4 H: 0 F: 1
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIIB

952S acetone, aromatic hydrocarbon, barium sulfate, bisphenol a/epoxy,phenolic resin, carbon black, ethylene glycol monobutylether (3%), hydrous magnesium silicate, methyl alcohol (1%), nonionic surfactant, water, 1,2,4-trimethyl benzene (0-1%), 2-propoxyethanol (3%)
GAL WT: 10.08 WT PCT SOLIDS: 45.59 VOL PCT SOLIDS: 30.90
SOLVENT DENSITY: 7.94 VOC LE: 2.4 VOC AP: 1.1 H: 2 F: 2
R: 0 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

956S ethylene glycol monobutylether (6%), nonionic surfactant, polyethylene amine mixture, propylene glycol methyl ether, water, 2-propoxyethanol (14%)
GAL WT: 8.40 WT PCT SOLIDS: 22.02 VOL PCT SOLIDS: 18.64
SOLVENT DENSITY: 8.05 VOC LE: 4.6 VOC AP: 2.2 H: 3 F: 2
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales
Prepared by D. G. Detweiler
**Section I - Manufacturer**

**Manufacturer:**
DuPont Co.
Automotive
Wilmington, Delaware 1998

**Telephone:**
Product information (800)441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300 (CHEMTREC)

**Product:** Chroma Premier System (Balancers, Binders).

**OSHA Hazard Class:** Flammable liquid

**DOT Shipping Name:** See DOT addendum

**Hazardous Materials Information:** See Section X.

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**Section II - Hazardous Ingredients**

(See Section X)

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Vapor Pressure (20°C. mm Hg)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid Ester</td>
<td>90438-79-2</td>
<td>Unknown</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>184.0</td>
<td>500 ppm-A 8 hr TWA</td>
</tr>
<tr>
<td>Acrylic polymer A</td>
<td>96591-17-2</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Acrylic polymer B</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Acrylic polymer C</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Acrylic polymer D</td>
<td>None</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Acrylic polymer E</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Acrylic polymer F</td>
<td>63150-02-7</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Aliphatic polyamine</td>
<td>Not Available</td>
<td>Unknown</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Aliphatic polyisocyanate resin</td>
<td>28182-61-2</td>
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<td>0.5 mg/m³-0.1 Total Dust</td>
</tr>
<tr>
<td>Aromatic hydrocarbon</td>
<td>14824-95-6</td>
<td>10.0 @ 25°C</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Barium Sulfate</td>
<td>7727-43-7</td>
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<td>10 mg/m³-0.1 Total Dust</td>
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<tr>
<td>Benzene, 1-chloro-4 (trifluoromethyl)</td>
<td>86-56-6</td>
<td>5.3</td>
<td>25 ppm-S Ceiling</td>
</tr>
<tr>
<td>Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate</td>
<td>41556-26-7</td>
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<tr>
<td>Butyl acetate</td>
<td>123-86-4</td>
<td>8.0</td>
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<tr>
<td>Calcium carbonate</td>
<td>471-34-1</td>
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<td>10 mg/m³-A</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>None</td>
<td>3.5 mg/m³-A,O</td>
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<tr>
<td>Cellulose acetate butyrate</td>
<td>9004-36-8</td>
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<td>None-A,O</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>3.7</td>
<td>50 ppm-A,O Skin</td>
</tr>
<tr>
<td>Cyan-purple pigment</td>
<td>128-69-8</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Not Available</td>
<td>None</td>
<td>None</td>
<td>5 mg/m³-A Cr</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
<td>10 mg/m³-0.1 Total Dust</td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>0.1</td>
<td>5 ppm-D</td>
</tr>
<tr>
<td>Diisobutyl ketone</td>
<td>106-83-8</td>
<td>1.7</td>
<td>25 ppm-A</td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>141-78-6</td>
<td>76.0</td>
<td>400 ppm-A,O</td>
</tr>
<tr>
<td>Ethyl 3-ethoxy propionate</td>
<td>763-69-9</td>
<td>Unknown</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>7.0</td>
<td>125 ppm-A 15 min(TEL)</td>
</tr>
<tr>
<td>Green-purple pigment</td>
<td>Not Available</td>
<td>None</td>
<td>25 ppm-D &amp;12 hr TWA</td>
</tr>
<tr>
<td>Hexyl acetate isomers</td>
<td>88230-35-7</td>
<td>0.7</td>
<td>50 ppm-A Hexyl Acet</td>
</tr>
<tr>
<td>Hydrous magnesium silicate</td>
<td>14507-96-6</td>
<td>None</td>
<td>2.0 mg/m³-A Resp</td>
</tr>
<tr>
<td>Isobutyl alcohol</td>
<td>77-83-1</td>
<td>10.0</td>
<td>50 ppm-A</td>
</tr>
<tr>
<td>Isoproponyl alcohol</td>
<td>77-63-0</td>
<td>33.0</td>
<td>500 ppm-A 15 min(TEL)</td>
</tr>
<tr>
<td>Ketone solvent</td>
<td>71508-49-6</td>
<td>5.8 @ 0°C</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Medium mineral spirits</td>
<td>64742-88-7</td>
<td>None</td>
<td>100 ppm-D</td>
</tr>
<tr>
<td>Melamine resin</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Methyl amyl ketone</td>
<td>110-43-0</td>
<td>2.2</td>
<td>50 ppm-A</td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>76-93-3</td>
<td>71.0</td>
<td>200 ppm-A 15 min(TEL)</td>
</tr>
<tr>
<td>Methyl isoamy ketone</td>
<td>110-12-3</td>
<td>4.5</td>
<td>50 ppm-A</td>
</tr>
<tr>
<td>Methyl isobutyl carbinol</td>
<td>108-11-2</td>
<td>2.2</td>
<td>25 ppm-A Skin</td>
</tr>
<tr>
<td>Methyl isobuty ketone</td>
<td>108-10-1</td>
<td>15.0</td>
<td>50 ppm-A</td>
</tr>
<tr>
<td>n-butyl alcohol</td>
<td>71-36-3</td>
<td>5.5</td>
<td>50 ppm-A</td>
</tr>
<tr>
<td>Methyl isobuty ketone</td>
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<td>15.0</td>
<td>50 ppm-A</td>
</tr>
<tr>
<td>n-pentyl propionate</td>
<td>624-84-4</td>
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<td>None-A,O</td>
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<tr>
<td>Oxo-octyl acetate</td>
<td>108419-32-5</td>
<td>1.0 @ 25°C</td>
<td>50 ppm-S</td>
</tr>
<tr>
<td>Perylene pigment</td>
<td>128-69-8</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Perylene pigment</td>
<td>128-69-8</td>
<td>None</td>
<td>None-A,O</td>
</tr>
</tbody>
</table>
Phthalocyanine green pigment
1328-53-6
None
10 mg/m³-A
15 mg/m³-O Resp
5 mg/m³-O Resp

Polyester resin A
35561-07-0
None
None-A,O

Polyester resin B
65086-73-9
None
None-A,O

Polyethylene/vinyl acetate
Not Available

Primary amyl acetate
828-63-7
4.0
100 ppm-A

Propionic acid, n-butyl ester
590-01-2
3.4 @ 25°C
None-A,O

Propylene glycol monomethyl ether acetate
108-65-6
3.7
None-A,O
10 ppm-D

Quinacridone pigment
1047-16-1
None
10 mg/m³-A
15 mg/m³-O Resp
5 mg/m³-O Resp

Red/gold pigment
Not Available

Silver/green pigment
Not Available

Titanium dioxide
13463-67-7
None
10 mg/m³-A O
10 mg/m³-O Resp
10 mg/m³-D

Toluene
108-88-3
/ 36.7
50 ppm-A Skin
200 ppm-O
300 ppm-O Ceiling
500 ppm-O 10 min MAX
50 ppm-D 88.12 hr TWA

VM&P Naphtha
64742-89-8
15.0 @ 37.8°C
300 ppm-A
400 ppm-O 15 min(STEL)
100 ppm-D

Xylene
1330-20-7
/ 7.0 @ 25°C
100 ppm-A
150 ppm-A 15 min(STEL)
100 ppm-D 8&12 hr
150 ppm-D 15 min TWA

Zinc phosphate
7779-90-0
None
10 mg/m³-A
15 mg/m³-O Resp
5 mg/m³-O Resp

1,2,4-Trimethyl benzene
95-63-6
10.0 @ 44.4°C
25 ppm-A, O

1,6-hexamethylene diisocyanate
622-06-0
Unknown
5 ppb-A
None-O

2(2-hydroxy-3,5-diteramylphenyl) benzotriazole
25973-55-1
Unknown
None-A,O

A = AGCIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

Section III - Physical Data
Evaporation rate: Less than ether
Vapor Density: Heavier than air
Solubility in water: Miscible
Percent volatile by volume: 41.6% - 100.00%
Percent volatile by weight: 33.11 - 100.0%
Boiling range: 54°C-245°C/129°F-473°F
Gallon weight: 6.61 - 12.87 lb/gallon

Section IV - Fire and Explosion Data
Flash point (closed cup): See Section X for exact values.
Flammable limits: 0.8% - 11.5%
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended.

Water from fog nozzles may be used to cool closed containers to prevent pressure build up.
Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V - Health Hazard Data
General Effects:
Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.

Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness, and loss of coordination may occur. Prolonged respiratory tract irritation may result in lung injury. Skin contact may cause skin irritation with discomfort or rash. Repeated or prolonged overexposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort or rash. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediate flush with plenty of water for at least 15 minutes, call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Specific Effects:
ACETIC ACID ESTER Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Over exposure may cause eye, nose and throat irritation. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. ACRYLIC POLYMER-D Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision.

POLYISOCYANATE RESIN Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

POLYURETHANE Repeated exposure may cause allergic contact dermatitis with rash. May cause eye irritation with discomfort or rash. May cause skin irritation with discomfort or rash. Recurrent overexposure may result in liver and kidney injury. High doses in laboratory animals have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. Effects observed in studies with guinea pigs, dogs, or monkeys. Several studies in petroleum workers have not shown a significant effect. ETHYL BENZENE increase of kidney damage or an increase in kidney or liver tumors. BIS(1,2,6,5-PENTAMETHYL-4-PIPERIDINYL) SEBACATE Repeated exposure may cause allergic skin rash, itching, swelling. ETHYL ACETATE May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Repeated and prolonged overexposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort or rash. Recurrent overexposure may result in liver and kidney injury. High doses in laboratory animals have shown non specific effects such as irritation, weight loss, moderate blood changes. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive. DIISOBUTYL KETONE Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count. Repeated exposure may cause allergic skin rash, itching, swelling. ETHYL ACETATE Prolonged and repeated high exposures of laboratory animals resulted in secondary pneumonia with an increase in white blood cells, fatty degeneration, cloudy swelling and an excess of blood in various organs. ETHYL 3-ETHOXY PROPIONATE Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.
embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals have shown a significant increase of kidney damage or an increase in kidney or liver tumors. HYDROUS MAGNESIUM SILICATE Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. Tests in laboratory animals have shown bone marrow and liver effects. May cause abnormal liver function. May cause irritation of the mucous membranes. ISOPROPYL ALCOHOL Inhalation studies on laboratory animals showed that very high oral doses caused increased kidney and liver weights. KETOACETONE SOLVENT Inhalation overexposure may cause lung injury. In the lung, and difficulty in breathing. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Repeated and prolonged overexposure to talc may lead to typical x-ray changes and chronic lung disease. ISOXYLYL ALCOHOL Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. Tests in laboratory animals have shown bone marrow and liver effects. May cause abnormal liver function. May cause irritation of the mucous membranes. ISOPROPYL ALCOHOL Inhalation studies on laboratory animals showed that very high oral doses caused increased kidney and liver weights. KETOACETONE SOLVENT Inhalation overexposure may cause lung injury. In the lung, and difficulty in breathing. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. MELAMINE RESIN This chemical has shown high frequency hearing deficits. The significance of this to man is unknown. Tests in laboratory animals have shown bone marrow and liver effects. May cause abnormal liver function. May cause irritation of the mucous membranes. ISOPROPYL ALCOHOL Inhalation studies on laboratory animals showed that very high oral doses caused increased kidney and liver weights. METHYL ETHYL KETONE High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. METHYL ISOAMYL KETONE Extremely high oral doses in laboratory animals have shown weight changes in various organs such as the liver, kidney and adrenal gland. In addition liver injury was observed. MEDIUM MINERAL SPIRITS & PETROLEUM NAPHTHA Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. XYLENE Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Canada classifies Xylene as a developmental toxic as high exposures to xylene in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. 1,8-HEXAMETHYLEN DIISOCYANATE May cause upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent, or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with pre-existing lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

Section VI - Reactivity Data

Stability: Stable
Incompatibility (materials to avoid): Water, amines, metal salts

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

- 20% Surfactant (Tergitol TMN 10) and 80% Water OR
- 0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

Section VIII - Special Protection Information

Respiratory: Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer's directions for respirator use. DO NOT PERMIT ANYONE WITHOUT PROTECTION IN THE PAINTING AREA.

Refer to the hardener/activator label instructions for further information.

Eye protection: Neoprene gloves and coveralls are recommended. Do not permit anyone without protection in the painting area.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash
throughout handling and before eating or smoking. Do not store above 120°F.

Other precautions: Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

### Section X - Other Information

#### Section 313 Supplier Notification

The chemicals listed below are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>INGREDIENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>12305S</td>
<td>aliphatic polyisocyanate resin, hexyl acetate isomers, propylene glycol monomethyl ether acetate, toluene (25%), hexamethylene diisocyanate (&lt;0.2%)</td>
</tr>
<tr>
<td>GAL WT:</td>
<td>8.82 WT PCT SOLIDS: 64.40 VOL PCT SOLIDS: 58.39</td>
</tr>
<tr>
<td>SOLVENT DENSITY:</td>
<td>7.55 VOC LE: 3.1 VOC AP: 3.1 H: 3 F: 3</td>
</tr>
<tr>
<td>R:</td>
<td>1.83 VOL: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC</td>
</tr>
<tr>
<td>12355S</td>
<td>butyl acetate, ethylbenzene (25%), methyl ethyl ketone (25%), toluene (15%), xylene (15-16%)</td>
</tr>
<tr>
<td>GAL WT:</td>
<td>7.12 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00</td>
</tr>
<tr>
<td>SOLVENT DENSITY:</td>
<td>7.40 VOC LE: 2.4 VOC AP: 2.4 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 70 - 73 F (CC) OSHA STORAGE: IB</td>
</tr>
<tr>
<td>12375S</td>
<td>butyl acetate, ethylbenzene (26%), methyl amyl ketone, methyl isobutyl ketone (10%), xylene (18-23%)</td>
</tr>
<tr>
<td>GAL WT:</td>
<td>7.08 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00</td>
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<tr>
<td>SOLVENT DENSITY:</td>
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<td>12385S</td>
<td>ethylbenzene (14%), hexyl acetate isomers, methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (11-14%)</td>
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<tr>
<td>GAL WT:</td>
<td>7.40 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00</td>
</tr>
<tr>
<td>SOLVENT DENSITY:</td>
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<tr>
<td>12395S</td>
<td>aromatic hydrocarbons, ethyl acetate isomers, o xo-acetate (xylene (0-1%), 1,2,4-trimethyl benzene (14-15%)</td>
</tr>
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<td>GAL WT:</td>
<td>7.37 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00</td>
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<tr>
<td>SOLVENT DENSITY:</td>
<td>6.52 VOC LE: 1.4 VOC AP: 1.4 H: 2 F: 2 R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II</td>
</tr>
<tr>
<td>72410S</td>
<td>acrylic polymer-1, butyl acetate, calcium carbonate, ethylbenzene (3%), hexyl acetate isomers, hydros magnesium silicate, isobutyl acetate, methyl amyl ketone, propylene glycol monomethyl ether acetate, titanium dioxide, xylene (13%), zinc phosphate (9%)</td>
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<tr>
<td>GAL WT:</td>
<td>13.35 WT PCT SOLIDS: 68.16 VOL PCT SOLIDS: 41.32</td>
</tr>
<tr>
<td>72440S</td>
<td>acrylic polymer-1, barium sulfate, butyl acetate, calcium carbonate, carbon black, ethylbenzene (3%), hexyl acetate isomers, hydros magnesium silicate, isobutyl acetate, methyl amyl ketone, propylene glycol monomethyl ether acetate, titanium dioxide, xylene (14%), zinc phosphate (9%)</td>
</tr>
<tr>
<td>GAL WT:</td>
<td>7.37 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00</td>
</tr>
<tr>
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<td>72455S</td>
<td>aliphatic polyamine, butyl acetate, ethyl acetate, ethylbenzene (0-2%), toluene (25%), xylene (6-7%)</td>
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<td>GAL WT:</td>
<td>7.53 WT PCT SOLIDS: 17.75 VOL PCT SOLIDS: 17.76</td>
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<tr>
<td>72475S</td>
<td>aliphatic polyamine, hexyl acetate isomers, propylene glycol monomethyl ether acetate</td>
</tr>
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<td>7.68 WT PCT SOLIDS: 17.55 VOL PCT SOLIDS: 18.60</td>
</tr>
<tr>
<td>SOLVENT DENSITY:</td>
<td>7.78 VOC LE: 6.3 VOC AP: 6.3 H: 3 F: 2 R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II</td>
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<tr>
<td>72495S</td>
<td>acrylic polymer-1, ethyl 3-ethoxy propionate, hexyl acetate isomers, propylene glycol monomethyl ether acetate</td>
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<tr>
<td>GAL WT:</td>
<td>7.53 WT PCT SOLIDS: 17.54 VOL PCT SOLIDS: 18.21</td>
</tr>
<tr>
<td>52320N</td>
<td>acrylic polymer-1, bis,(1,2,6-pentamethyl-4-piperidinyl) sebacate, diethylene glycol monobutyl ether (3%), ethyl acetate, methyl amyl ketone, methyl ethyl ketone (10%), propylene glycol monomethyl ether acetate, xylene (0-1%)</td>
</tr>
<tr>
<td>GAL WT:</td>
<td>7.91 WT PCT SOLIDS: 46.02 VOL PCT SOLIDS: 38.76</td>
</tr>
<tr>
<td>52330N</td>
<td>acrylic polymer-1, butyl acetate, methyl amyl ketone, methyl ethyl ketone (9%), propylene glycol monomethyl ether acetate, xylene (0-1%)</td>
</tr>
<tr>
<td>GAL WT:</td>
<td>7.91 WT PCT SOLIDS: 46.02 VOL PCT SOLIDS: 38.76</td>
</tr>
<tr>
<td>72440S</td>
<td>acryic polymer-e, bis(1,2,6,5-pentamethyl-4-piperidinyl) sebacate, diethylene glycol monobutyl ether (3%), ethyl acetate, methyl amyl ketone, methyl ethyl ketone (10%), propylene glycol monomethyl ether acetate, xylene (0-1%)</td>
</tr>
<tr>
<td>GAL WT:</td>
<td>7.91 WT PCT SOLIDS: 46.02 VOL PCT SOLIDS: 38.76</td>
</tr>
<tr>
<td>72440S</td>
<td>acrylic polymer-e, bis(1,2,6,5-pentamethyl-4-piperidinyl) sebacate, diethylene glycol monobutyl ether (3%), ethyl acetate, methyl amyl ketone, methyl ethyl ketone (10%), propylene glycol monomethyl ether acetate, xylene (0-1%)</td>
</tr>
<tr>
<td>GAL WT:</td>
<td>7.91 WT PCT SOLIDS: 46.02 VOL PCT SOLIDS: 38.76</td>
</tr>
<tr>
<td>72440S</td>
<td>acrylic polymer-e, bis(1,2,6,5-pentamethyl-4-piperidinyl) sebacate, diethylene glycol monobutyl ether (3%), ethyl acetate, methyl amyl ketone, methyl ethyl ketone (10%), propylene glycol monomethyl ether acetate, xylene (0-1%)</td>
</tr>
</tbody>
</table>
ethylbenzene (4%*), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (21%*)

GAL WT: 7.78 WT PCT SOLIDS: 24.66 VOL PCT SOLIDS: 18.89
SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
KK720F acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (2-6%*), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, red/gold pigment (2%), xylene (16-20%*)

GAL WT: 7.68 WT PCT SOLIDS: 23.83 VOL PCT SOLIDS: 18.17
SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
KK721F acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, red/gold pigment (2%), xylene (18%*)

GAL WT: 7.69 WT PCT SOLIDS: 23.78 VOL PCT SOLIDS: 18.04
SOLVENT DENSITY: 7.15 VOC LE: 5.8 VOCAP: 5.0 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
KK722F acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (20%*)

GAL WT: 7.71 WT PCT SOLIDS: 24.41 VOL PCT SOLIDS: 18.67
SOLVENT DENSITY: 7.16 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
KK723F acetone, acrylique polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (16%*), phthalocyanine green pigment (4%), xylene (18%*)

GAL WT: 7.77 WT PCT SOLIDS: 24.75 VOL PCT SOLIDS: 19.45
SOLVENT DENSITY: 7.16 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
KK726F acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, red/gold pigment (2%), xylene (21%*)

SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales

Prepared by D. G. Detweiler
## Section I - Manufacturer

**Manufacturer:**
DuPont Co.
Automotive
Wilmington, Delaware 19898

**Telephone:**
Product information (800)441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300 (CHEMTREC)

**Product:** Cromax WBC Waterborne Basecoats

**OSHA Hazard Class:** Combustible; Not Regulated

**DOT Shipping Name:** See DOT addendum.

**Hazardous Materials Information:** See Section X.

## Section II - Hazardous Ingredients

### (See Section X)

| Ingredients CAS No. | Vapor Pressure | Exposure Limits *
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic polymer A</td>
<td>Not Available</td>
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</tr>
<tr>
<td>Acrylic polymer B</td>
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</tr>
<tr>
<td>Acrylic polymer C</td>
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</tr>
<tr>
<td>Acrylic polymer D</td>
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<td>Acrylic polymer E</td>
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<td>Acrylic polymer F</td>
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<td>Acrylic polymer G</td>
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<tr>
<td>Aliphatic solvent mixture</td>
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<td>Aluminum</td>
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<tr>
<td>Ammonia hydroxide-a</td>
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</tr>
<tr>
<td>Ammonia hydroxide-b</td>
<td>1336-21-6</td>
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</tr>
<tr>
<td>Amorphous silica - precipitated</td>
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<tr>
<td>Anthraquinone pigment</td>
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<td>Aromatic hydrocarbon</td>
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<td>Carbon black</td>
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<td>Chromium (III) Oxide</td>
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<td>Diketopyrrolotryptophen red pigment</td>
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<td>Dioxazine carboxazine pigment</td>
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<tr>
<td>Ethylene glycol monobutyl ether</td>
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<td>Graphite, synthetic</td>
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<td>Iron oxide</td>
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<td>Isobutyl alcohol</td>
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<td>Isoindolinone complex</td>
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<td>Isopropyl alcohol</td>
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<td>Mica</td>
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<td>n-butoxypropanol</td>
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<td>Nickel oxide</td>
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<td>8007-18-9</td>
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<tr>
<td>Octylphenoxypolyethoxyethanol surfactant</td>
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<td>Organic alkyl phosphate ester</td>
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<tr>
<td>Perylene pigment</td>
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<tr>
<td>Phthalocyanine blue pigment</td>
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<td>Phthalocyanine green pigment</td>
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<td>Polyurethane polymer</td>
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<td>Tetrachloroisindolinone yellow pigment</td>
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</table>
Section III - Physical Data

Evaporation rate: Less than ether
Vapor Density: Heavier than air
Solubility in water: Miscible
Percent volatile by volume: 65.1% - 100%
Percent volatile by weight: 56.2% - 100%
Boiling range: 26°C - 216°C/79°F - 421°F

Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.
Flammable limits: 0.2% - 23%
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.

Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V - Health Hazard Data

General Effects:
Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.
Inhalation: Nose and throat irritation. Repeated and prolonged overexposure may cause chemical burns. May cause abnormal blood forming function with anemia. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Nickel Oxide & Nickel, Antimony, Titanium Yellow Pigment is an IARC, NTP or OSHA carcinogen. The components of this pigment are combined chemically into a uniform substance which does not necessarily reflect the properties of the components metals or oxides. WARNING: This chemical is known to the State of California to cause cancer.
Octylphenoxypolyethoxyethanol Surfactant Causes eye corrosion and permanent injury. Contact may cause skin irritation with discomfort or rash. Quinethapone Yellow Pigment Contact may cause skin irritation with discomfort or rash. Inhalation may result in gastric disturbances. Titanium Dioxide In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m3 respirable titanium dust. Analysis of the titanium dioxide concentrations in the rats' lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m3 level were not relevant to the workplace. 2-Propanol Ethers Can be absorbed through the skin in harmful amounts. May destroy red blood cells. Overexposure may cause damage to the kidneys, spleen and liver based on studies with laboratory animals. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

Section VI - Reactivity Data

Stability: Stable
Incompatibility (materials to avoid): None reasonably foreseeable.
Hazardous decomposition products: CO, CO₂, smoke.
Hazardous polymerization: Will not occur.

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Ventilae area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Contain and remove with inert absorbent.

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

Section VIII - Special Protection Information

Respiratory: Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In closed work spaces, or in situations where continuous spray operations are typical, or if proper air purifying respirator fit is not possible, wear a positive pressure supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer’s directions for respirator use. Do not permit anyone without protection in the painting area.

Ventilation: Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Protective clothing: Neoprene gloves and coveralls are recommended.

Eye protection: Desirable in all industrial situations. Include splash guards or side shields.
Section IX - Special Precautions

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

Other precautions: Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

Section X - Other Information

Section 313 Supplier Notification: The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

PRODUCT CODE: INGREDIENTS

1410W acrylic polymer-a, acrylic polymer-f, ammonium hydroxide-b, isobutyl alcohol, titanium oxide, water, 2-propanoylethanol (2%*)
GAL WT: 10.31 WT PCT SOLIDS: 37.05 VOL PCT SOLIDS: 21.07
SOLVENT DENSITY: 8.22 VOC LE: 1.6 VOCAP: 0.4 H: 1 F: 1 R: 0 FLASH PT: ABOVE 100-140 F (CC) OSHA STORAGE: IIB

1412W acrylic polymer-a, ammonium hydroxide-b, isobutyl alcohol, water,
GAL WT: 8.72 WT PCT SOLIDS: 15.16 VOL PCT SOLIDS: 10.97
SOLVENT DENSITY: 8.31 VOC LE: 0.6 VOCAP: 0.4 H: 1 F: 1 R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIB

1403W acrylic polymer-b, acrylic polymer-c, ethylene glycol monobutylether (3%), titanium dioxide, water
GAL WT: 9.73 WT PCT SOLIDS: 14.08 VOL PCT SOLIDS: 11.99
SOLVENT DENSITY: 8.25 VOC LE: 2.0 VOCAP: 0.4 H: 1 F: 1 R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIB

1414W acrylic polymer-a, acrylic polymer-f, ammonium hydroxide-b, amorphous silica - precipitated, isobutyl alcohol, water
GAL WT: 8.86 WT PCT SOLIDS: 16.78 VOL PCT SOLIDS: 12.64
SOLVENT DENSITY: 8.26 VOC LE: 1.0 VOCAP: 0.2 H: 1 F: 1 R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIB

1411W acrylic polymer-a, acrylic polymer-f, aluminum (3%), n-pentanol, water
GAL WT: 8.41 WT PCT SOLIDS: 12.53 VOL PCT SOLIDS: 9.81
SOLVENT DENSITY: 8.16 VOC LE: 3.6 VOCAP: 0.7 H: 2 F: 1 R: 1 FLASH PT: BETWEEN 100-140 F (CC) OSHA STORAGE: II

1416W acrylic polymer-a, acrylic polymer-f, ammonium hydroxide-b, amorphous silica - precipitated, isobutyl alcohol, water
GAL WT: 8.86 WT PCT SOLIDS: 16.78 VOL PCT SOLIDS: 12.64
SOLVENT DENSITY: 8.26 VOC LE: 1.0 VOCAP: 0.2 H: 1 F: 1 R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIB

1415W acrylic polymer-b, acrylic polymer-a, ammonium hydroxide-b, medium mineral spirits, butyl alcohol (1%), water
GAL WT: 8.41 WT PCT SOLIDS: 12.16 VOL PCT SOLIDS: 9.19
SOLVENT DENSITY: 8.25 VOC LE: 1.5 VOCAP: 0.1 H: 1 F: 1 R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIB

1417W acrylic polymer-a, acrylic polymer-f, aluminum (3%)
GAL WT: 8.42 WT PCT SOLIDS: 14.61 VOL PCT SOLIDS: 11.77
SOLVENT DENSITY: 8.15 VOC LE: 3.0 VOCAP: 0.6 H: 1 F: 2 R: 0 FLASH PT: BETWEEN 100-140 F (CC) OSHA STORAGE: II

1412W acrylic polymer-a, acrylic polymer-f, aluminum (3%)
GAL WT: 8.43 WT PCT SOLIDS: 13.52 VOL PCT SOLIDS: 10.85
SOLVENT DENSITY: 8.15 VOC LE: 3.1 VOCAP: 0.6 H: 1 F: 2 R: 0 FLASH PT: BETWEEN 100-140 F (CC) OSHA STORAGE: II

1416W acrylic polymer-a, acrylic polymer-f, ammonium hydroxide-b, aromatic hydrocarbon, n-butyl alcohol (3%), n-pentanol, water
GAL WT: 8.41 WT PCT SOLIDS: 16.61 VOL PCT SOLIDS: 12.64
SOLVENT DENSITY: 8.03 VOC LE: 4.0 VOCAP: 1.2 H: 2 F: 2 R: 1 FLASH PT: BETWEEN 100-140 F (CC) OSHA STORAGE: II

1417W acrylic polymer-a, acrylic polymer-f, aluminum (3%)
# Section I - Manufacturer

**Manufacturer:**
DuPont Co.
Automotive
Wilmington, Delaware 19898

**Telephone:**
Product information (800) 441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300 (CHEMTREC)

**Product:** IMRON® 5000 Polyurethane Enamels

**OSHA Hazard Class:** Flammable liquid

**DOT Shipping Name:** See DOT addendum.

**Hazardous Materials Information:** See Section X.

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## Section II - Hazardous Ingredients

(See Section X)

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Vapor Pressure (20°C, mm Hg)</th>
<th>Exposure Limits</th>
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<td>Acetic acid ester</td>
<td>90438-79-2</td>
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<td>Acetone</td>
<td>67-64-1</td>
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<td>750 ppm-A 15 min (STEL)</td>
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<tr>
<td></td>
<td></td>
<td>500 ppm-A 8 &amp; 12 hr</td>
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<tr>
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<td>4267-92-0</td>
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<td>Acrylic polymer B</td>
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<td>None</td>
<td>None-A, O</td>
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<td>77358-01-1</td>
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<td>70942-12-0</td>
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<td>Amorphous Silica</td>
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<td></td>
<td>5 mg/m³-O Dust 8 hr TWA</td>
</tr>
<tr>
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<td></td>
<td>10 mg/m³-D 8 hr TWA</td>
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<td>Bis(1,2,6,8-pentamethyl-4-piperidyl) sebacate</td>
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<td>None-A, O</td>
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</tbody>
</table>
**Section III - Physical Data**

**Evaporation rate:** Less than ether  
**Vapor Density:** Heavier than air  
**Solubility in water:** Miscible  
**Percent volatility by volume:** 7% - 100%  
**Percent volatility by weight:** 5% - 100%  
**Boiling range:** 54°C - 213°C/129.2°F - 415.4°F  
**Gallon weight:** 6.61 - 15.58 lb/gallon

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**Section IV - Fire and Explosion Data**

**Flash point (closed cup):** See Section X for exact values.  
**Flammable limits:** 0.8% - 11.5%  
**Extinguishing media:** Universal aqueous film-forming foam, carbon dioxide, dry chemical.  
**Special fire fighting procedures:** Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

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**Section V - Health Hazard Data**

**General Effects:**  
**Ingestion:** Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.  
**Inhalation:** May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. The effect may be permanent. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, seek professional care. Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. If case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.  
**Specific Effects:**  
**Acetic Acid Ester** Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Over exposure may cause eye, nose and throat irritation. Repeated or prolonged liquid contact may cause skin irritation and dermatitis. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Acrylic Polymer-K & L Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or irritation. Aliphatic Polymeric Isocyanate Repeated exposure may cause allergic skin rash, itching, swelling. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. May causes eye irritation with permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, seek professional care. Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. If case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.  
**Studies with laboratory animals have shown reproductive and developmental effects.** Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excess exposures. Aromatic Hydrocarbon Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver injury. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase in kidney damage or an increase in kidney, or liver tumors. Bis(1,2,2,6,6-Pentamethyl-4-Piperidinyi) Sebacate repeated exposure may cause allergic skin rash, itching, swelling. Butyl Acetate May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Carbon Black is an IARC, NTP or OSHA carcinogen. Dibutyl Tin Dilaurate Causes eye corrosion and permanent injury. Contact may cause skin burns. Can be absorbed through the skin in harmful amounts. Ethyl Acetate Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs. Ethylbenzene Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excess exposures. Ethyleneglycol Monoethyl Ether Acetate Can be absorbed through the skin in harmful amounts. May destroy red blood cells. May cause abnormal kidney function. Heptane Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver injury.
tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Hydrogen Magnesium Silicate Repeated and prolonged overexposure may lead to typical x-ray changes and chronic lung disease. Isopropyl Alcohol Ingestion studies on laboratory animals showed that very high levels cause disturbances of liver and kidney weights. Lead Chromate Over exposure to lead causes disturbances of the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula: limit (in ug/m3) = cohesive amount / hours worked in the day. Is an IARC, NTP or OSHA carcinogen. WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm. Lead Chromate Molybdate Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula: limit (in ug/m3) = cohesive amount / hours worked in the day. Is an IARC, NTP or OSHA carcinogen. WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

Medium Mineral Spirits laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Medium Amyl Ketone Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. Methylethyl Ketone High concentrations have caused embryotoxic effects in laboratory animals. Methylethyl ketone has not been demonstrated to cause permanent effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula: limit (in ug/m3) = cohesive amount / hours worked in the day. Is an IARC, NTP or OSHA carcinogen. WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

Primary Amyl Acetate Recurrent overexposure may result in liver and kidney injury. Propylene Glycol Monomethyl Ether Acetate May cause eye irritation with discomfort, tearing, or blurred vision. Contact may cause skin irritation with discomfort or rash. Over exposure may cause eye, nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. 2,4-Pentanedione Can be absorbed through the skin in harmful amounts. Repeated exposures to high concentrations has caused adverse health effects in laboratory animals. These effects involved the central nervous system, immune system, and the red blood cell forming system. No effect was seen at 100 ppm. The odor is disagreeable at a few ppm. Ingestion may result in gastric disturbances.

Section VI - Reactivity Data

Stability: Stable

Incompatibility (materials to avoid): Water, alcohols, mineral spirits

Hazardous decomposition products: CO, CO2, smoke

Hazardous polymerization: Will not occur.

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:
Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

- 20% Surfactant (Tergitol TMN 10) and 80% Water OR
- 0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbent material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

Section VIII - Special Protection Information

Respiratory: Do not breath vapors or mist. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate hardeners.

Ventilation: Provide sufficient ventilation in volume and pattern to keep concentration below applicable exposure limits.

Protective clothing: Neoprene gloves and coveralls are recommended.

Eye protection: Desirable in all industrial situations. Include splash guards or side shields.
Section IX - Special Precautions

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

Other precautions: Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

Section X - Other Information

Section 313 Supplier Notification: The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

PRODUCT CODE INGREDIENTS (See Section II)

R-519488 acetone, acrylic polymer-b, acrylic polymer-g, amorphous silica, butyl acetate, methyl amyl ketone, toluene (2%), xylene (0-1%*)

R: 0 FLASH PT: BETWEEN 73-100 F (CC) OSHA STORAGE: IC

507H acrylic polymer-a, aromatic hydrocarbon, butyl acetate, methyl amyl ketone, toluene (1%*), xylene (4-5%*), phthalic anhydride, xylene (34%*)

GAL WT: 9.54 WT PCT SOLIDS: 52.70 VOL PCT SOLIDS: 37.38
SOLVENT DENSITY: 7.47 VOC LE: 3.3 VOCAP: 3.3 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
519H acrylic polymer-a, acrylic polymer-b, anthraquinone pigment, butyl acetate, ethylenebenzene (1-3%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (5-6%)

GAL WT: 8.27 WT PCT SOLIDS: 48.57 VOL PCT SOLIDS: 42.10
SOLVENT DENSITY: 7.35 VOC LE: 3.5 VOCAP: 3.5 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
522H acrylic polymer-b, aluminum (2%), aromatic hydrocarbon, butyl acetate, ethylenebenzene (0-1%), medium mineral spirits, n-butyl alcohol (2%), propylene glycol monomethyl ether acetate, stoddard solvent, xylene (4-5%)

GAL WT: 9.30 WT PCT SOLIDS: 51.04 VOL PCT SOLIDS: 38.83
SOLVENT DENSITY: 7.44 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
524H acrylic polymer-b, butyl acetate, isopropyl alcohol, methyl alcohol, medium mineral spirits, n-butyl alcohol, nickel azo tetrazol dye (8%), propylene glycol monomethyl ether acetate, toluene (2-3%), vm&d naptha

GAL WT: 8.25 WT PCT SOLIDS: 51.68 VOL PCT SOLIDS: 44.42
SOLVENT DENSITY: 7.48 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
525H acrylic polymer-b, acrylic polymer-b, butyl acetate, ethylenebenzene (0-1%), iron oxide, methyl amyl ketone, primary amyl alcohol, xylene (2-4%)

GAL WT: 9.54 WT PCT SOLIDS: 52.70 VOL PCT SOLIDS: 37.38
SOLVENT DENSITY: 7.21 VOC LE: 4.5 VOCAP: 4.5 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
526H acrylic polymer-b, butyl acetate, dioxazine carbazole pigment, medium mineral spirits, n-butyl alcohol (4%), propylene glycol monomethyl ether acetate
GAL WT: 8.31 WT PCT SOLIDS: 50.04 VOL PCT SOLIDS: 44.08
SOLVENT DENSITY: 7.42 VOC LE: 4.2 VOCAP: 4.2 H: 1 F: 3 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IC
527H acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, methyl amyl ketone, xylene (0-1%), propylene glycol monomethyl ether acetate, toluene (3%), xylene (0-1%).

GAL WT: 8.81 WT PCT SOLIDS: 44.05 VOL PCT SOLIDS: 36.10
SOLVENT DENSITY: 7.80 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
528H acrylic polymer-a, acrylic polymer-b, butyl acrylate, methyl amyl ketone, polyester resin, xylene (1-2%), propylene glycol monomethyl ether acetate, xylene (0-1%).

GAL WT: 9.07 WT PCT SOLIDS: 43.94 VOL PCT SOLIDS: 40.65
SOLVENT DENSITY: 7.80 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
529H acrylic polymer-a, acrylic polymer-b, butyl acetate, methyl amyl ketone, propylene glycol monomethyl ether acetate, toluene (1%).

GAL WT: 9.43 WT PCT SOLIDS: 51.47 VOL PCT SOLIDS: 40.48
SOLVENT DENSITY: 7.69 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
530H acrylic polymer-a, acrylic polymer-b, butyl acrylate, methyl amyl ketone, xylene (0-1%), propylene glycol monomethyl ether acetate, xylene (1-2%).

GAL WT: 8.29 WT PCT SOLIDS: 48.81 VOL PCT SOLIDS: 40.89
SOLVENT DENSITY: 7.18 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
533H acrylic polymer-a, acrylic polymer-c, butyl acrylate, methyl amyl ketone, xylene (1-2%).

GAL WT: 8.42 WT PCT SOLIDS: 52.75 VOL PCT SOLIDS: 42.06
SOLVENT DENSITY: 7.68 VOC LE: 4.5 VOCAP: 4.5 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
534H acrylic polymer-b, acrylonitrile, methyl amyl ketone, xylene (1%).

GAL WT: 8.92 WT PCT SOLIDS: 76.22 VOL PCT SOLIDS: 70.25
SOLVENT DENSITY: 7.15 VOC LE: 2.1 VOCAP: 2.1 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
574H acrylic polymer-e, bis[1,2,6-pentamethyl-4-piperidino] sebacate, ethyl acetate, ethylbenzene (0-1%), propylene glycol monobutyl ether acetate (2%), methyl amyl ketone, polyester resin, xylene (1-2%).

GAL WT: 8.57 WT PCT SOLIDS: 68.92 VOL PCT SOLIDS: 61.21
SOLVENT DENSITY: 8.67 VOC LE: 2.7 VOCAP: 2.7 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
578H acrylic polymer-a, bis[1,2,6-pentamethyl-4-piperidino] sebacate, ethyl acetate, ethylbenzene (0-1%), ethylene glycol monoalkyl ether acetate (2%), heptane, medium mineral spirits, methyl amyl ketone, n-butyl alcohol (3%), polyethylene glycol monomethyl ether acetate, xylene (1-2%).

GAL WT: 8.02 WT PCT SOLIDS: 32.78 VOL PCT SOLIDS: 26.95
SOLVENT DENSITY: 7.33 VOC LE: 5.4 VOCAP: 5.4 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IC
683H acrylic polymer-a, bis[1,2,6-pentamethyl-4-piperidino] sebacate, ethyl acetate, ethylbenzene (0-1%), methyl amyl ketone, n-butyl alcohol (3%), polyethylene glycol monomethyl ether acetate, xylene (1-2%).

GAL WT: 9.20 WT PCT SOLIDS: 49.24 VOL PCT SOLIDS: 35.14
SOLVENT DENSITY: 7.20 VOC LE: 4.7 VOCAP: 4.7 H: 2 F: 3 R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
673H acrylic polymer-e, bis[1,2,6-pentamethyl-4-piperidino] sebacate, ethyl acetate, ethylbenzene (0-1%), methyl amyl ketone, polyester resin, xylene (1-2%), 2-ethylhexyl acetate.

Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

Product Manager
Prepared by D. G. Detweiler
Section I - Manufacturer

Manufacturer:
DuPont Co.
Automotive
Wilmington, Delaware 19898

Telephone:
Product information (800)441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Chroma One & Chroma One High Solids Binders, Activators & Reducers

OSHA Hazard Class: Flammable liquid
DOT Shipping Name: See DOT addendum.

Section II - Hazardous Ingredients

(See Section X)

Ingredients CAS No. Vapor Pressure (20 C mm Hg) Exposure Limits

Acetone 67-64-1 184.0 500 ppm-A 8hr TWA

Acrylic Polymer A Not Available None None-A,0

Acrylic Polymer B 9559-1-17-2 None None-A,0

Acrylic Polymer C 69215-54-9 None None-A,0

Acrylic Polymer D Not Available None None-A,0

Acrylic Polymer E Not Available None None-A,0

Acrylic Polymer F Not Available None None-A,0

Acrylic Polymer G Not Available None None-A,0

Aliphatic polyisocyanate resin 26182-81-2 None 0.5 mg/m³-S 1 mg/m³-S None-A,0

Aliphatic polymeric isocyanate 3778-63-3 None 0.5 mg/m³-S 8 hr TWA

Aromatic hydrocarbon 64742-95-8 10.0 @ 25°C None-A,0

Bis(1,2,6,6,7,8,8,8,8- octamethyl-2-trimalyl-4- piperdiny1) sebacate 41556-26-7 6.0 None-A,0

Butyl acetate 123-86-4 8.0 500 ppm-D 15 min (STEL)

Cumene 98-82-8 3.7 50 ppm-A,0 Skin

Diethylene glycol monobutyl ether 112-34-5 0.1 5 ppm-D None-A,0

Diisobutyl ketone 108-83-8 1.7 25 ppm-A None-A,0

Ethyl acetate 141-78-6 76.0 400 ppm-A None-A,0

Ethylene glycol monobutyl ether acetate 122-70-7 0.3 20 ppm-D None-A,0

Section III - Physical Data

Evaporation rate: Less than ether.
Vapor Density: Heavier than air.
Solubility in water: Miscible.
Percent volatility by volume: 31.8%-99.7%
Percent volatility by weight: 26.8%-99.7%
Boiling range: 54°C - 245°C/ 129°F - 473°F
Gallon weight: 7.23 - 9.00 lb/gallon

Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.
Flammable limits: 0.8%- 13.1%
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.
Special fire fighting precautions: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.
Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.
Section V • Health Hazard Data

General Effects:
Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.

Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function which may be permanent. Individuals with breathing problems or prior reaction to isocyanates may have increased risk with this product. Prolonged skin contact may cause a decrease in lung function which may be permanent. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Specific Effects:
Acrylic Polymer-E Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. Allphatic Polysiocyanate Resin Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with pre-existing lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. Aromatic Hydrocarbon & Medium Mineral Spirits Laboratory studies with rats have shown that petroleum distillates can cause kidney injury, including a decrease in lung function, which may be permanent. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with pre-existing lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. The significance of these effects to humans is not known.

1,6-Hexamethylene Diisocyanate May cause temporary upper respiratory and/or lung inflation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with pre-existing lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

Section VI - Reactivity Data

Stability: Stable

Incompatibility (materials to avoid): Water, amines, metal salts

Hazardous decomposition products: CO, CO₂, smoke.

Hazardous polymerization: Will not occur.

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

- 20% Surfactant (Tergitol TMN 10) and 80% Water OR
- 0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

Section VIII - Special Protection Information

Respiratory: Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until vapors and spray mists are exhausted. Follow respirator manufacturer's
directions for respirator use. Do not permit anyone without protection in the painting area.

Refer to the hardener/activator: bel instructions for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

Ventilation: Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Protective clothing: Neoprene gloves and coveralls are recommended.

Eye protection: Desirable in all industrial situations. Include splash guards or side shields.

Section IX • Special Precautions

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

Other precautions: Do not sand, flame cut, braze or weld dry coatings without a NIOSH approved respirator or appropriate ventilation.

Section X • Other Information

PRODUCT CODE
INGREDIENTS (See Section II)

7005S aliphatic polyisocyanate resin, aromatic hydrocarbon, butyl aceta
diisobutyl ketone, ethyl acetate, 1,2,4-trimethylene benzene (0-
2%*), 1,6-hexamethylene diisocyanate (<0.2%*). 1,6-hexamethylene diisocya
calculated. 2%•). 1,6-hexamethylene diisocyanate (<0.2%*).

7005S aliphatic polymeric isocyanate, hexyl aceta
diisobutyl ketone, methyl amyl ketone, ethyl ketone (2%*), methyl

7022G acrylic polymer-c, diisobutyl ketone, methyl amyl ketone, methyl

7005G acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, acryl
diisobutyl ketone, methyl amyl ketone, methyl ethyl ketone (9%*), prop

7030G acrylic polymer-c, aromatic hydrocarbon, butyl acet
diisobutyl ketone, methyl amyl ketone, ethyl ketone (1%), prop

7032G acrylic polymer-d, butyl acetate, methyl amyl ketone, methyl

7042G acrylic polymer-d, bis(1,2,6,6-pentamethyl-4-piperidinyl) sebacate, ethyl acetate, methyl amyl ketone, ethyl ketone (10%), propylene glycol monoalkyl ether acetate, xylene (0-

7040G acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, acryl
diisobutyl ketone, methyl amyl ketone, methyl ethyl ketone (2%), heptane, medium mineral spirits, methyl amyl
ChromaClear® Clearcoat, Activator, & Reducers

Section I - Manufacturer

Manufacturer:
DuPont Co.
Automotive
Wilmington, Delaware 19989

Telephone:
Product information (800) 441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300 (CHEMTREC)


OSHA Hazard Class: Flammable liquid, except 2185S - Combustible liquid

Hazardous Materials Information: See Section X.

Section II - Hazardous Ingredients

(See Section X)

<table>
<thead>
<tr>
<th>Ingredients CAS No.</th>
<th>Vapor Pressure (20°C, mm Hg)</th>
<th>Exposure Limits *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>184.0</td>
<td>500 ppm-D 8 hr TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm-9 hr TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>750 ppm-D 15 min(STEL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm-D 8 &amp; 12 hr</td>
</tr>
<tr>
<td>Acrylic polymer</td>
<td>Not available</td>
<td>None</td>
</tr>
<tr>
<td>Benzene, 1-chloro-4 (trifluoromethyl) 98-56-6</td>
<td>5.3</td>
<td>25 ppm-S</td>
</tr>
<tr>
<td>Bis(1,2,2,6,6-pentamethyl-4-piperdinyl) sebacate 41556-26-7</td>
<td>8.0</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Butyl acetate 123-86-4</td>
<td>8.0</td>
<td>150 ppm-A, 200 ppm-A 15 min(STEL)</td>
</tr>
<tr>
<td>Ethylbenzene 100-41-4</td>
<td>7.0</td>
<td>100 ppm-A, 125 ppm-A 15 min(STEL)</td>
</tr>
<tr>
<td>Polyester resin</td>
<td>Not available</td>
<td>None</td>
</tr>
<tr>
<td>Methyl Amyl Ketone 110-43-0</td>
<td>2.2</td>
<td>50 ppm-A</td>
</tr>
<tr>
<td>Polyester resin 65066-73-9</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Substituted benzotriazole 127519-19-9</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Trimer of hexamethylene diisocyanate 3779-63-3</td>
<td>None</td>
<td>1.0 mg/m³-S 15 min(STEL)</td>
</tr>
<tr>
<td>Xylene 1330-20-7</td>
<td>7.0 @ 25°C</td>
<td>100 ppm-A, 150 ppm-A 15 min(STEL)</td>
</tr>
<tr>
<td>1,6-Hexamethylene diisocyanate 822-06-0</td>
<td>Unknown</td>
<td>5 ppm-A</td>
</tr>
</tbody>
</table>

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

Section III - Physical Data

Evaporation rate: Less than ether
Vapor Density: Heavier than air
Solubility in water: Miscible
Percent volatile by volume: 37.7%-50.5%
Percent volatile by weight: 36.7%-49.9%
Boiling range: 54°C - 213°C/129.2°F - 415.4°F
Gallon weight: 9.22-9.36 lbs./gallon

Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.
Flammable limits: 0.8%-11.5%
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical, dry chemical foam, Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build-up.

Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V - Health Hazard Data

General Effects:
Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.
Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Specific Effects:
Acrylic polymer Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. Bis(1,2,2,6,6-pentamethyl-4-piperdinyl) sebacate Repeated exposure may cause allergic skin rash, itching, swelling.
Butyl acetate May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Ethylbenzene Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. Methyl amy ketone Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. Trimer of hexamethylene diisocyanate Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing.
or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

**Xylene** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Canada classifies Xylene as a developmental toxin as high exposures to xylene in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known.

1,6-hexamethylene disocyanate May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

### Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** Water, amines, metal salts

**Hazardous decomposition products:** CO, CO₂, smoke

**Hazardous polymerization:** Will not occur.

### Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:**

- Ventilate area. Remove sources of ignition. Do not breathe vapors.
- Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves, and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:
  - 20% Surfactant (Tergitol TMN 10) and 80% Water OR
  - 0-10% Ammonia, 2-5% Detergent and Water (balance)

- Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

### Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer’s directions for respirator use. Do not permit anyone without protection in the painting area.

Refer to the hardener/activator label instructions for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

### Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

### Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

**PRODUCT CODE**

**INGREDIENTS (See Section II)**

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>INGREDIENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2105S</td>
<td>acetone, acrylic polymer, benzene, 1-chloro-4 (trifluoromethyl), bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate, butyl acetate, polyester resin, methyl amyl ketone, polyester resin, substituted benzofurazone</td>
</tr>
<tr>
<td>2105S</td>
<td>benzene, 1-chloro-4 (trifluoromethyl), ethylbenzene (1-3%), methyl amyl ketone, toluene of hexamethylene disocyanate, xylene (10-13%), 1,6-hexamethylene disocyanate (&lt;0.2%)</td>
</tr>
<tr>
<td>2165S</td>
<td>acetone, benzene, 1-chloro-4 (trifluoromethyl), gal, wt: 7.24 wt pct solids: 0.00 vol pct solids: 0.00 solvent density: 7.24 vol le: 0.0 voc ap: 0.0 h 2 f: 3 r: 1 flash pt: below 20 f (cc) osha storage: ib</td>
</tr>
<tr>
<td>2175S</td>
<td>acetone, benzene, 1-chloro-4 (trifluoromethyl), gal, wt: 8.71 wt pct solids: 0.00 vol pct solids: 0.00 solvent density: 8.71 vol le: 0.0 voc ap: 0.0 h 2 f: 3 r: 1 flash pt: between 20 - 73 f (cc) osha storage: ic</td>
</tr>
<tr>
<td>2185S</td>
<td>benzene, 1-chloro-4 (trifluoromethyl), gal, wt: 11.15 wt pct solids: 0.00 vol pct solids: 0.00 solvent density: 11.15 vol le: 0.0 voc ap: 0.0 h 1 f: 2 r: 1 flash pt: between 100 - 140 f (cc) osha storage: ii</td>
</tr>
</tbody>
</table>

**Notice:** The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

**Product Manager - Refinish Sales**

*Prepared by D. G. Detweiler*
Section I - Manufacturer

Manufacturer:
DuPont Co.
Automotive
Wilmington, Delaware 19898

Telephone:
Product information (800)441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300 (CHEMTREC)

Section II - Hazardous Ingredients
(See Section X)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Vapor Pressure (20°C, mm Hg)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid ester of C9-C11 oxo-alcohol</td>
<td>108419-34-7</td>
<td>0.1 @ 21°C</td>
<td>50 ppm-S None-A,O</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>184.0</td>
<td>500 ppm-A 8 hr TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1000 ppm-O 8 hr TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>750 ppm-A 15 min(STEL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>500 ppm-D &amp;12 hr</td>
</tr>
<tr>
<td>Acrylic polymer-A</td>
<td>69215-54-9</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Acrylic polymer-B</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Acrylic polymer-C</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Aliphatic polisocyanate resin</td>
<td>28182-81-2</td>
<td>None</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Aliphatic polymeric isocyanate</td>
<td>3779-63-3</td>
<td>Unknown</td>
<td>0.5 mg/m³-S 15 min(STEL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>None-A,O</td>
</tr>
<tr>
<td>Aromatic hydrocarbon</td>
<td>84742-95-6</td>
<td>10.0 @ 25°C</td>
<td>25 ppm-S Ceiling</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>123-86-4</td>
<td>8.0</td>
<td>200 ppm-A 15 min(STEL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>150 ppm-A,O</td>
</tr>
<tr>
<td>Cumene</td>
<td>58-82-8</td>
<td>3.7</td>
<td>50 ppm-A,O Skin</td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>141-79-6</td>
<td>76.0</td>
<td>400 ppm-A,O</td>
</tr>
<tr>
<td>Ethyl 3-ethoxy propionate</td>
<td>763-69-9</td>
<td>Unknown</td>
<td>None-A,O</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>100-41-4</td>
<td>7.0</td>
<td>100 ppm-A,O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>125 ppm-A 15 min(STEL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>25 ppm-D &amp;12 hr Skin</td>
</tr>
<tr>
<td>Ethylene glycol monobutyl ether acetate</td>
<td>112-07-2</td>
<td>0.3</td>
<td>20 ppm-D Skin</td>
</tr>
<tr>
<td>Hexyl acetate isomers</td>
<td>88230-35-7</td>
<td>0.7</td>
<td>None-A,O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 ppm-A Hexyl Acet</td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
<td>71.0</td>
<td>200 ppm-A,O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>300 ppm-A 15 min(STEL)</td>
</tr>
</tbody>
</table>

Section III - Physical Data

Evaporation rate: Less than ether
Vapor Density: Heavier than air
Solubility in water: Miscible
Percent volatile by volume: 34.3% - 72.8%
Percent volatile by weight: 28.7% - 61.1%
Boiling range: 78°C - 249°C/169°F - 480°F
Gallon weight: 7.75 - 9.02 lb/gallon

Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.
Flammable limits: 0.5% - 13.1%
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.
Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V - Health Hazard Data

General Effects:
Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.
Inhalation: May cause nose and throat irritation. Repeated and prolonged exposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repeated exposure to isocyanates may cause a decrease in lung function which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to...
fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes: call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Specific Effects:

Aliphatic Polysiclanate Resin Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent, or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. Aromatic Hydrocarbon Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Butyl Acetate May cause abnormal liver function. Tests for embroytoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Ethyl Acetate Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration and edema swelling and an excess of blood in various organs. Ethyl 3-Ethoxy Propionate Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Ethybenzene Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embroytoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. Ethylene Glycol Monobutyl Ether Acetate Can be absorbed through the skin in harmful amounts. May cause eye and skin irritation with discomfort, tearing or blurred vision. Methyl Ethyl Ketone High concentrations have caused embroytoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (e.g., shorten the time of onset) the peripheral and central nervous system effects of methanol or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. Methyl Isobutyl Ketone Recurrent overexposure may result in liver and kidney injury. Individuals with preexisting diseases of the central nervous system or lungs may have increased susceptibility to the toxicity of excessive exposures. Polyester Resin Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing or blurred vision. Propylene Glycol Monomethyl Ether Acetate May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. Toluene Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Chronic changes in the circulating blood of exposed workers have been reported. The report of these effects is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. Water & This chemical is known to the State of California to cause birth defects or other reproductive harm. Xylene Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with preexisting disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures.

Canada classifies Xylene as a developmental toxin as high exposure to xylene in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. 1,6-

Section VI - Reactivity Data

Stability: Stable
Incompatibility (materials to avoid): Water, amines, metal salts
Hazardous decomposition products: CO, CO₂, smoke.
Hazardous polymerization: Will not occur.

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:
Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C). eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

- 20% Surfactant (Tergitol TMN 10) and 80% Water OR
- 0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

Section VIII - Special Protection Information

Respiratory: Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer’s directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions for further information. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

Ventilation: Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits. Protective clothing: Neoprene gloves and coveralls are recommended.

Eye protection: Desirable in all industrial situations. Include splash guards or side shields.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°

Other precautions: Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

Section X - Other Information
Section 313 Supplier Notification: The chemicals listed below with butyl acetate, toluene (27%*), percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>INGREDIENTS (See Section II)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7500S</td>
<td>acrylic polymer-c, butyl acetate, ethyl acetate, ethylbenzene (2-6%<em>), hexyl acetate isomers, methyl isobutyl ketone (3%</em>), polyester resin-b, propylene glycol monomethyl ether acetate, toluene (1%<em>), xylene (18-22%</em>)</td>
</tr>
<tr>
<td>7555S</td>
<td>aliphatic polymeric isocyanate, ethyl acetate, GAL WT: 8.38 WT PCT SOLIDS: 47.98 VOL PCT SOLIDS: 41.66 SOLVENT DENSITY: 7.38 VOCLE: 4.4 VOCAP: 4.4 H: 3 F: 3</td>
</tr>
<tr>
<td>7565S</td>
<td>aliphatic polymeric isocyanate, butyl acetate, ethyl acetate, ethylbenzene (2-7%<em>), methyl isobutyl ketone (3%</em>), polyester resin-b, propylene glycol monomethyl ether acetate, toluene (1-4%<em>), 1,2,4-trimethyl benzene (1-5%</em>)</td>
</tr>
<tr>
<td>7575S</td>
<td>aliphatic polymeric isocyanate, butyl acetate, ethyl acetate, ethylbenzene (2-6%<em>), methyl isobutyl ketone (3%</em>), polyester resin-b, propylene glycol monomethyl ether acetate, toluene (1-4%<em>), 1,2,4-trimethyl benzene (1-5%</em>)</td>
</tr>
<tr>
<td>7585S</td>
<td>aliphatic polymeric isocyanate, ethyl acetate, hexyl acetate isomers, methyl isobutyl ketone (3%<em>), polyester resin-b, propylene glycol monomethyl ether acetate, toluene (1-4%</em>), 1,2,4-trimethyl benzene (1-5%*)</td>
</tr>
<tr>
<td>7595S</td>
<td>aliphatic polymeric isocyanate, ethyl acetate, hexyl acetate isomers, methyl isobutyl ketone (3%<em>), polyester resin-b, propylene glycol monomethyl ether acetate, toluene (1-4%</em>), 1,2,4-trimethyl benzene (1-5%*)</td>
</tr>
<tr>
<td>7600S</td>
<td>acetone, acrylic polymer-a, benzene,1-chloro-4 (trifluoromethyl), butyl acetate, ethylbenzene (2-5%<em>), methyl ethyl ketone (12%</em>), toluene (1%<em>), xylene (15-19%</em>)</td>
</tr>
<tr>
<td>7610S</td>
<td>acrylic polymer-a, aromatic hydrocarbon-a, butyl acetate, ethylbenzene (1-7%<em>), methyl ethyl ketone (28%</em>), propylene glycol monomethyl ether acetate, toluene (20-25%<em>), xylene (15-19%</em>)</td>
</tr>
<tr>
<td>7655S</td>
<td>aliphatic polyisocyanate resin, aromatic hydrocarbon-a, butyl acetate, toluene (27%<em>), methyl isobutyl ketone (3%</em>), polyester resin-b, propylene glycol monomethyl ether acetate, toluene (1%<em>), xylene (18-22%</em>)</td>
</tr>
</tbody>
</table>

Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales

Prepared by D. G. Detweiler

MSDS 19-1
**MATERIAL SAFETY DATA SHEET**

**VOC PRODUCTS**

Section I - Manufacturer

Manufacturer: DuPont Co.
Automotive
Wilmington, Delaware 19898

Telephone:
- Product information (800)441-7515
- Medical emergency (800) 441-3637
- Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Low VOC Primers, Thinners, Basemakers, Clears and Activators.

OSHA Hazard Class: Not Regulated; Flammable liquid
DOT Shipping Name: See DOT addendum.

Section II - Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Vapor Pressure (20°C, mm Hg)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid ester</td>
<td>90439-79-2</td>
<td>Unknown</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Acetic acid ester of C9-11 Oxo-alcohol</td>
<td>108419-34-7</td>
<td>0.1 @ 21°C</td>
<td>50ppm-S None-A,O</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>184.0</td>
<td>500 ppm-A 8 hr TWA</td>
</tr>
<tr>
<td>Acrylic polymer-A</td>
<td>9011-14-7</td>
<td>None</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Acrylic polymer-B</td>
<td>25133-97-5</td>
<td>None</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Acrylic polymer-C</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Acrylic polymer-D</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Acrylic polymer-E</td>
<td>69215-64-9</td>
<td>None</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Acrylic polymer-F</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Acrylic polymer-G</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Acrylic polymer-H</td>
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<td>None-A,0</td>
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<td>Acrylic polymer-I</td>
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<td>None-A,0</td>
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<tr>
<td>Acrylic polymer-J</td>
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<td>Acrylic polymer-K</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Acrylic polymer-N</td>
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<td>Acrylic polymer-P</td>
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</tr>
<tr>
<td>Acrylic polymer-Q</td>
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<td>None-A,0</td>
</tr>
<tr>
<td>Aliphatic hydrocarbon/ aliphatic ester/ surfactant</td>
<td>Not Available</td>
<td>None</td>
<td>None-A,0</td>
</tr>
</tbody>
</table>

Aliphatic polyamine: Not Available
Aliphatic polycarbonate: Unknown
Aliphatic polystyrene: Not Available
Aliphatic polyamide: Not Available
Aliphatic polyurethane: Not Available
Aliphatic polyurea: Not Available
Aliphatic polyurethane: Not Available
Aliphatic polyamide: Not Available
Aliphatic polycarbonate: Unknown
Aliphatic polystyrene: Not Available

Benzene,1-chloro-4 (trifluoromethyl) propionate: 99-55-6

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Vapor Pressure (20°C, mm Hg)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene,1-chloro-4 (trifluoromethyl) propionate</td>
<td>99-55-6</td>
<td>5.3</td>
<td>25 ppm-S Ceiling</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Vapor Pressure (20°C, mm Hg)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A/epichlorohydrin polymer</td>
<td>25036-25-3</td>
<td>None</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Bisphenol A/epoxy phenolic resin</td>
<td>66334-76-9</td>
<td>None</td>
<td>None-A,0</td>
</tr>
<tr>
<td>Bisphenol A/epoxyphenolic type polymer</td>
<td>25068-36-6</td>
<td>None</td>
<td>None-A,0</td>
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<tr>
<td>Blocked diamine</td>
<td>Not Available</td>
<td>0.4</td>
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</tr>
<tr>
<td>Butyl Acetate</td>
<td>123-86-4</td>
<td>8.0</td>
<td>150.0 ppm-A,O</td>
</tr>
<tr>
<td>Butyl benzyl phthalate</td>
<td>85-68-7</td>
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<tr>
<td>Calcium Carbonate</td>
<td>471-34-1</td>
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<td>None-A,0</td>
</tr>
<tr>
<td>Calcium strontium zinc phosphosilicate</td>
<td>66402-68-4</td>
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<td>None-A,0</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>None</td>
<td>3.5 mg/m³-A,O</td>
</tr>
<tr>
<td>Cellulose acetate butyrate</td>
<td>9004-36-8</td>
<td>None</td>
<td>0.5 mg/m³-D</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>3.7</td>
<td>50 ppm-A,O Skin</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>110-82-7</td>
<td>100.0 @ 60°C</td>
<td>300 ppm-A,O</td>
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<td>Dehydrated castor oil</td>
<td>64147-40-6</td>
<td>Unknown</td>
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<tr>
<td>Diethylene glycol monobutyl ether-A</td>
<td>112-34-5</td>
<td>0.1</td>
<td>5 ppm-D</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether-B</td>
<td>112-34-5</td>
<td>0.1</td>
<td>5 ppm-D</td>
</tr>
<tr>
<td>Dibutyl ketone</td>
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<tr>
<td>Chemical Name</td>
<td>CAS Number</td>
<td>Density</td>
<td>Vapour Pressure</td>
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<tr>
<td>Polyamide resin</td>
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<tr>
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</tr>
<tr>
<td>Polyester resin B</td>
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<tr>
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<tr>
<td>Polyester resin E</td>
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<tr>
<td>Polyester resin F</td>
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<tr>
<td>Polyethylene amine mixture</td>
<td>None</td>
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<td>None</td>
</tr>
<tr>
<td>Polyethylene/vinyl acetate</td>
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<tr>
<td>Polyamide resin</td>
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</tr>
<tr>
<td>Polyester resin A</td>
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<tr>
<td>Polyester resin B</td>
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<tr>
<td>Polyester resin C</td>
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<tr>
<td>Polyester resin D</td>
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<tr>
<td>Polyester resin E</td>
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<td>None</td>
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</tr>
<tr>
<td>Polyester resin F</td>
<td>None</td>
<td>None</td>
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</tr>
<tr>
<td>Polyethylene amine mixture</td>
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<tr>
<td>Polyethylene/vinyl acetate</td>
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<td>Polyisocyanate resin</td>
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<td>Polyamide resin</td>
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<tr>
<td>Polyester resin A</td>
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<td>Polyester resin B</td>
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<td>Polyester resin C</td>
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<td>Polyester resin F</td>
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</tr>
<tr>
<td>Polyethylene amine mixture</td>
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</tr>
<tr>
<td>Polyethylene/vinyl acetate</td>
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</tr>
<tr>
<td>Polyisocyanate resin</td>
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<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Section III - Physical Data

Evaporation rate: Less than ether
Percent volatile by volume: 4.7% - 100%
Boiling range: 54°C - 90°C/129°F - 165°F

Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

Section V - Health Hazard Data

General Effects:
Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.
Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. If affected by solvent fumes, they may mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician. Additional effects when this material contains, or is mixed with an isocyanate activator/hardener: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repetitive overexposure to isocyanates may cause a decrease in lung function. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. Aromatic Hydrocarbon A & B Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

Specific Effects:
Aromatic Hydrocarbons A & B Laboratory studies with rats have shown that aromatic hydrocarbon distillates can cause kidney damage and kidney or liver tumors. Studies in laboratory animals have shown that some hydrocarbons have been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Butyl Benzyl Phthalate may have caused allergic skin rash, itching, swelling. Has shown non specific effects such as irritation. Weight loss, moderate blood changes. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive. Diethylene Glycol Monobutyl Ether A & B Contact may cause skin irritation with discomfort or rash. Recurrent overexposure may result in liver and kidney injury. High doses in laboratory animals have shown non specific effects such as irritation, weight loss, moderate blood changes. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive. Bisphenol A/Epichlorohydrin Polymer Repeated exposure may cause allergic skin rash, itching, swelling. Has shown mutagenic activity in laboratory cell culture tests. Bisphenol A/Epichlorohydrin Polymer Repeated exposure may cause allergic skin rash, itching, swelling. Has shown mutagenic activity in laboratory cell culture tests. Bisphenol A/Epichlorohydrin Polymer Repeated exposure may cause allergic skin rash, itching, swelling. Has shown mutagenic activity in laboratory cell culture tests. Bisphenol A/Epichlorohydrin Polymer Repeated exposure may cause allergic skin rash, itching, swelling. Has shown mutagenic activity in laboratory cell culture tests. Bisphenol A/Epichlorohydrin Polymer Repeated exposure may cause allergic skin rash, itching, swelling. Has shown mutagenic activity in laboratory cell culture tests.
laboratory animals at doses that are toxic to the mother. 

**Heptane**

Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. May cause temporary respiratory irritation or lung irritation with cough, difficult breathing, or shortness of breath. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Methyl Alcohol**

High concentrations have caused emphysema effects in laboratory animals. Methyl alcohol has been demonstrated to cause (i.e., shortened time of onset) period paralysis of muscle in rats. Repeated overexposure may result in kidney and injury. Can be absorbed through the skin in harmful amounts. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Methyl Ethyl Ketone**

High concentrations have caused emphysema effects in laboratory animals. Methyl ethyl ketone has been demonstrated to cause (i.e., shortened time of onset) period paralysis of muscle in rats. Extreme high oral doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, and adrenal gland. In addition, liver injury was observed. **Isobutyl Alcohol**

Liquid splashes in the eye may cause chemical burns. Extremely high concentrations have caused blood changes and weakness in laboratory animals. Isobutyl ketone Recurrent overexposure may result in liver and kidney injury. Individuals with preexisting diseases of the central nervous system or lungs may have increased susceptibility to the toxicity of excessive exposures. **Isopropyl Alcohol**

Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Xylene**

Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease or the central nervous system may have increased susceptibility to the toxicity of excessive exposures. Xylene Recurrent overexposure may result in liver and kidney injury. 

### Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** None reasonably foreseeable.

**Hazardous decomposition products:** CO, CO₂, smoke, oxides of heavy metals in Section II.

**Hazardous polymerization:** Will not occur.

### Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:**

- Ventilate area. Remove sources of ignition. Prevent spill and eye contact and breathing of vapor. Wear respiratory protection, gloves and protective clothing. Confine and remove with inert absorbent.

- If the material contains, or is mixed with, an isocyanate activator, hardener: Wear a positive-pressure supply of respiratory (NIOSH approved TC-19C). Pour liquid decontamination solution.
over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

- 20% Surfactant (Tergitol TMN 10) and 80% Water
- O-10% Ammonia, 2-5% Detergent and Water (balance)

Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

If material does not contain or is not mixed with an isocyanate activator/hardener, wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C).

Waste disposal method: Do not allow material to contaminate ground water systems. Inocerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

**Section VIII - Special Protection Information**

Respiratory: Do not breathe vapors or mists. When these products are used with paints requiring isocyanate activators/hardeners, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product is used without isocyanate activators/hardeners, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions and MSDS for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

Ventilation: Provide sufficient ventilation in volume and pattern to keep contaminant below applicable exposure limits.

Protective clothing: Neoprene gloves and coveralls are recommended.

Eye protection: Desirable in all industrial situations. Include splash guards or side shields.

**Section IX - Special Precautions**

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

Other precautions: Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

**Section X - Other Information**

Section 313 Supplier Notification: The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and 40 CFR 372.

**PRODUCT CODE**

- EZ-3480S acrylic polymer-c, acrylic polymer-m, butyl acrylate, ethylene glycol monobutyl ether acetate (5%), methyl amyl ketone, mixed dibasic esters, xooxyl acetate, toluene (5%), xylene (0-1%), 2-(2-hydroxy-3,5-diteramylphenyl)benzotriazole
- SOLVENT DENSITY: 7.15 VOC LE: 7.16 VOC ACP: 3.8 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

- VS-161S acrylic polymer-p, barium sulfate, butyl benzyl phthalate, carbon black, ethyl acetate, ethylene benzene (1-3%), hydrous magnesium silicate, iron oxide, isopropyl alcohol, toluene (15%), xylene (8-10%), zinc phosphate-a (6%)

- V-192S aliphatic poly(isocyanate) resin, heptane, methyl amyl ketone, methyl ethyl ketone (15%), toluene (25%)

- V-200S acetate acid ester, ethyl benzene (2-6%), hexyl acetate isomers, magnesium silicate, iron oxide, toluene (14%), n-buty alcohol (11%), polyamide resin, xylene (23-27%)

- V-3602S acetone, aromatic hydrocarbon-a, ethyl 3-ethoxy propanoate, isopropyl alcohol, methyl alcohol (4%), methyl isomyl ketone, n-buty alcohol (17%), petroleum naphtha, toluene (6-8%), vinyl naphtha, xylene (0-3%)
- GAL WT: 6.60 Wt PCT SOLIDS: 0.00 Vol PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.60 VOC LE: 6.6 VOC ACP: 5.4 H: 2 F: 3 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

- V-375S acetone, aromatic hydrocarbon-a, cyclohexane (0-1%), ethyl 3-ethoxy propanoate, isopropyl alcohol, methyl alcohol (4%), petroleum naphtha, toluene (10-12%), 1,2,4-trimethyl benzene (0-3%)
- GAL WT: 6.54 Wt PCT SOLIDS: 0.00 Vol PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.54 VOC LE: 6.5 VOC ACP: 4.8 H: 2 F: 3 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

- V-3613S acetone, isopropyl alcohol, methyl alcohol (4%), petroleum naphtha, toluene (10-12%)
- GAL WT: 6.57 Wt PCT SOLIDS: 0.00 Vol PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.57 VOC LE: 6.6 VOC ACP: 3.2 H: 2 F: 3 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

- V-3661S acetone, aromatic hydrocarbon-a, cyclohexane (0-1%), ethyl 3-ethoxy propanoate, isopropyl alcohol, methyl alcohol (4%), n-buty alcohol (6%), naphtha (1-11%), petroleum naphtha, toluene (11-13%), vinyl naphtha, xylene (0-1%), 1,2,4-trimethyl benzene (0-1%)
- GAL WT: 6.59 Wt PCT SOLIDS: 0.00 Vol PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.59 VOC LE: 6.5 VOC ACP: 0.7 H: 2 F: 3 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

- V-3665S acetone, disobutyl ketone, xooxyl acetate, acetone (3%), hydrogenated petroleum, toluene (2-7%)
- GAL WT: 6.57 Wt PCT SOLIDS: 0.00 Vol PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.57 VOC LE: 6.6 VOC ACP: 0.2 H: 2 F: 3 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

- V-3761 acetone, disobutyl ketone, xooxyl acetate
- GAL WT: 6.59 Wt PCT SOLIDS: 0.00 Vol PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.59 VOC LE: 6.6 VOC ACP: 0.9 H: 2 F: 3 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

- V-3698S acetone, aromatic hydrocarbon-a, cyclohexane (0-1%), ethyl 3-ethoxy propanoate, isopropyl alcohol, methyl alcohol (4%), isomyl ketone, dimethyl esters, petroleum naphtha, toluene (5-8%), 1,2,4-trimethyl benzene (0-3%)
- GAL WT: 6.60 Wt PCT SOLIDS: 0.00 Vol PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.60 VOC LE: 6.6 VOC ACP: 5.4 H: 2 F: 3 R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

- V-653S aliphatic poly(isocyanate) resin, ethyl acetate

- V-750S aliphatic poly(isocyanate) resin, butyl acetate, ethyl acetate, ethylene benzene (2-7%), toluene (4%), xylene (20-24%)

- V-7500S acetone, acrylonitrile, benzene,1-chloro-4 (trifluoromethyl), butyl acetate, ethylene benzene (3-8%), methyl ethyl ketone (8%), methyl isobutyl ketone (8%), n-buty alcohol (11%), polyamide resin, toluene (2%), xylene (23-28%)
- GAL WT: 7.67 Wt PCT SOLIDS: 40.08 Vol PCT SOLIDS: 34.30 SOLVENT DENSITY: 7.18 VOC LE: 4.6 VOC ACP: 4.3 H: 2 F: 3 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

- V-7565S aliphatic poly(isocyanate) resin, ethyl acetate, methyl ethyl ketone (8%), toluene (13%), 1,6-hexamethylene disocyanate (0.2%)
- GAL WT: 8.46 Wt PCT SOLIDS: 58.18 Vol PCT SOLIDS: 51.04 SOLVENT DENSITY: 7.23 VOC LE: 3.5 VOC ACP: 3.5 H: 3 F: 3
v.7575S aliphatic polymeric isocyanate, ethylbenzene (1-3%) propylene glycol monomethyl ether acetate, ethylene glycol monobutyl ether acetate, toluene (8-10%) acetic acid ester of c9-11 oxo-alcohol, ethylbenzene (0-2%), heptylene isocyanate, isopropyl alcohol, butyl alcohol (3%), hydrous magnesium silicate, methyl alcohol, mixed dibasic esters, naphthalene (0-2%), miditerine (0-1%), water.

GAL WT: 8.57 VT PCT SOLIDS: 56.20 VOL PCT SOLIDS: 51.71
SOLVENT DENSITY: 7.42 VOC LE: 3.6 VOC AP: 3.6 H: 3 F: 3
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
V-7595S aliphatic polymeric isocyanate, ethylbenzene (0-2%), heptylene isocyanate, isopropyl alcohol, butyl alcohol (3%), hydrous magnesium silicate, methyl alcohol, mixed dibasic esters, naphthalene (0-2%), miditerine (0-1%), water.

GAL WT: 8.57 VT PCT SOLIDS: 56.20 VOL PCT SOLIDS: 51.71
SOLVENT DENSITY: 7.42 VOC LE: 3.6 VOC AP: 3.6 H: 3 F: 3
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
V-7595S aliphatic polymeric isocyanate, ethylbenzene (0-2%), heptylene isocyanate, isopropyl alcohol, butyl alcohol (3%), hydrous magnesium silicate, methyl alcohol, mixed dibasic esters, naphthalene (0-2%), miditerine (0-1%), water.

GAL WT: 8.57 VT PCT SOLIDS: 56.20 VOL PCT SOLIDS: 51.71
SOLVENT DENSITY: 7.42 VOC LE: 3.6 VOC AP: 3.6 H: 3 F: 3
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
V-7595S aliphatic polymeric isocyanate, ethylbenzene (0-2%), heptylene isocyanate, isopropyl alcohol, butyl alcohol (3%), hydrous magnesium silicate, methyl alcohol, mixed dibasic esters, naphthalene (0-2%), miditerine (0-1%), water.

GAL WT: 8.57 VT PCT SOLIDS: 56.20 VOL PCT SOLIDS: 51.71
SOLVENT DENSITY: 7.42 VOC LE: 3.6 VOC AP: 3.6 H: 3 F: 3
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
V-7595S aliphatic polymeric isocyanate, ethylbenzene (0-2%), heptylene isocyanate, isopropyl alcohol, butyl alcohol (3%), hydrous magnesium silicate, methyl alcohol, mixed dibasic esters, naphthalene (0-2%), miditerine (0-1%), water.

GAL WT: 8.57 VT PCT SOLIDS: 56.20 VOL PCT SOLIDS: 51.71
SOLVENT DENSITY: 7.42 VOC LE: 3.6 VOC AP: 3.6 H: 3 F: 3
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC
V-7595S aliphatic polymeric isocyanate, ethylbenzene (0-2%), heptylene isocyanate, isopropyl alcohol, butyl alcohol (3%), hydrous magnesium silicate, methyl alcohol, mixed dibasic esters, naphthalene (0-2%), miditerine (0-1%), water.
GAL WT: 11.81 WT PCT SOLIDS: 64.76 VOL PCT SOLIDS: 41.08
SOLVENT DENSITY: 7.06 VOC LE: 4.2 VOC AP: 4.2 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
4350S barium sulfate, bisphenol a/epichlorohydrin polymer, butyl acetate, ethylbenzene (0-1%), hydrous magnesium silicate, iron oxide, isobutyl acetate, isopropyl alcohol, methyl ethyl ketone (8%), toluene (10%), xylene (4-5%), zinc phosphate-a (5%)
GAL WT: 10.86 WT PCT SOLIDS: 58.87 VOL PCT SOLIDS: 36.66
SOLVENT DENSITY: 7.05 VOC LE: 4.5 VOC AP: 4.5 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
4390S barium sulfate, bisphenol a/epichlorohydrin polymer, butyl acetate, carbon black, ethylbenzene (0-1%), hydrous magnesium silicate, isobutyl acetate, isopropyl alcohol, methyl ethyl ketone (9%), toluene (10%), xylene (4-5%), zinc phosphate-a (5%)
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
SOLVENT DENSITY: 7.06 VOC LE: 4.2 VOC AP: 4.2 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
acetate, ethylbenzene (0-1%), methyl ethyl ketone (9%), toluene (10%), xylene (4-5%), zinc phosphate-a (5%)
GAL WT: 8.30 WT PCT SOLIDS: 61.38 VOL PCT SOLIDS: 45.75
SOLVENT DENSITY: 7.06 VOC LE: 3.2 VOC AP: 3.2 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
acetone, acrylic polymer-o, butyl benzyl phthalate, cellulose acetate butyrate, heptane, isopropyl alcohol, methyl ethyl ketone (3%), methyl isoamy ketone, n-butyl alcohol (4%), propylene glycol monomethyl ether acetate, toluene (8%), xylene (1-10%)
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
SOLVENT DENSITY: 7.05 VOC LE: 4.5 VOC AP: 4.5 H: 2 F: 3
acetate, ethyl acetate, ethyl 3-ethoxy propionate, ethylbenzene (0-2%), polyester resin-c, toluene (16-17%), vm&p naphtha, xylene (4-6%), 2(2-hydroxy-3,5-diteramylphenyl)benzotriazole
GAL WT: 7.74 WT PCT SOLIDS: 35.50 VOL PCT SOLIDS: 23.94
SOLVENT DENSITY: 7.17 VOC LE: 5.0 VOC AP: 5.0 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
acetone, alkyd resin, butyl acetate, dehydrated castor oil, diethyl ketone glycol monobutyl ether-b (6%), ethyl 3-ethoxy propionate, ethylene glycol monobutyl ether acetate, ethylbenzene (0-2%), methyl amyl ketone, methyl n-propyl ketone, toluene (0-1%), vm&p naphtha, xylene (4-6%)
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
SOLVENT DENSITY: 7.41 WT PCT SOLIDS: 28.74 VOL PCT SOLIDS: 24.74
SOLVENT DENSITY: 7.17 VOC LE: 5.0 VOC AP: 5.0 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
SOLVENT DENSITY: 7.05 VOC LE: 3.7 VOC AP: 3.7 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
aliphatic polymeric isocyanate, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate, 1,6-hexamethylene diisocyanate (<0.2%)
GAL WT: 9.00 WT PCT SOLIDS: 75.03 VOL PCT SOLIDS: 69.97
SOLVENT DENSITY: 7.98 VOC LE: 2.2 VOC AP: 2.2 H: 3 F: 3
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
aliphatic polymeric isocyanate, hexyl acetate isomers, propylene glycol monomethyl ether acetate, 1,6-hexamethylene diisocyanate (<0.2%)
GAL WT: 8.95 WT PCT SOLIDS: 70.17 VOL PCT SOLIDS: 65.08
SOLVENT DENSITY: 7.65 VOC LE: 2.7 VOC AP: 2.7 H: 3 F: 2
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: IB
aliphatic polymeric isocyanate, ethylene glycol monobutyl ether acetate, 1,6-hexamethylene diisocyanate (<0.2%)
GAL WT: 8.94 WT PCT SOLIDS: 70.63 VOL PCT SOLIDS: 65.42
SOLVENT DENSITY: 7.59 VOC LE: 2.6 VOC AP: 2.6 H: 3 F: 2
R: 1 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIIA
701IN acrylic polymer-r, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate, diethylglycol monobutyl ether-b (8%), ethyl 3-ethoxy propanoate, ethylbenzene (0-2%), ethylene glycol monobutyl ether acetate (11%), polyester resin-c, vm&p naphtha, xylene (4-6%), 2(2-hydroxy-3,5-diteramylphenyl)benzotriazole
GAL WT: 7.86 WT PCT SOLIDS: 35.47 VOL PCT SOLIDS: 30.78
SOLVENT DENSITY: 7.33 VOC LE: 5.1 VOC AP: 5.1 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales
Prepared by D. G. Detweiler
**MATERIAL SAFETY DATA SHEET**

**IMRON® 6000 POLYURETHANE ENAMEL**

**Section I - Manufacturer**

**Manufacturer:**

DuPont Co.
Automotive
Wilmington, Delaware 19898

**Telephone:**

Product information (800) 441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300 (CHEMTREC)

**Product:** Imron® 6000 Basecoat/Clearcoat

**OSHA Hazard Class:** Flammable liquid

**DOT Shipping Name:** See DOTAddendum.

**Section II - Hazardous Ingredients**

(See Section X)

<table>
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<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Vapor Pressure (20°C, mm Hg)</th>
<th>Exposure Limits</th>
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<td>Acetone</td>
<td>67-64-1</td>
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<td>Acrylic polymer A</td>
<td>42767-92-0</td>
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**Exposure Limits**

- 500 ppm-A 8 hr TWA
- 1000 ppm-O 8 hr TWA
- 750 ppm-A 15 min (STEL)
- 500 ppm-D 8812 hr

**Other**

- Anthraquinone pigment
  - Not Available
  - None-A,O
- Aromatic hydrocarbon A
  - 64742-95-6
  - 10.0 @ 25°C
- Aromatic hydrocarbon B
  - 64742-94-5
  - 10.0
- Barium Sulfate
  - 7727-43-7
  - None-A,O
- Beta-(3-(2H-benzotriazol-2-YL)-4-hydroxy-5-tertbutylphenyl) propionate
  - 104810-47-1
  - Unknown-A,O
- Butyl acetate
  - 123-86-4
  - 8.0
  - 150 ppm-A 15 min(STEL)
- C.I. Pigment Red 179
  - 5521-31-3
  - None-A,O
- Carbon black
  - 1333-66-4
  - None-A,O
- Cellulose acetate butyrate
  - 9004-36-8
  - None-A,O
- Dibutyl tin dilaurate
  - 77-55-7
  - 0.2 @ 60°C
  - 0.1 mg/m³-A Skin as Sn
  - 0.1 mg/m³-O Skin as Sn
- Diketopyrrolopyrrole red pigment
  - Not Available
  - None-A,O
- Dioxazine carbozole pigment
  - 4378-61-4
  - None-A,O
- Ethyl acetate
  - 144-17-8
  - 76.0
  - 400 ppm-A,O
- Ethyl 3-ethoxy propionate
  - 763-69-9
  - None-A,O
- Ethylbenzene
  - 100-41-4
  - 7.0
  - 100 ppm-A 15 min(STEL)
  - 25 ppm-D 8812 hr
- Ethylene glycol monobutyl ether acetate
  - 112-07-2
  - 0.3
  - 20 ppm-D Skin
- Ferric hexacyanoferrate pigment
  - 1408-43-8
  - None-A,O
- Heptane
  - 142-82-5
  - 40.0
  - 400 ppm-A
  - 500 ppm-O
  - 50 ppm-A 15 min(STEL)
- Hexyl acetate isomers
  - 88230-35-7
  - 0.7
  - 50 ppm-A Hexyl Acet
  - None-O
- Iron oxide
  - 1309-37-1
  - None-A,O
- Isocyanine pigment
  - 3068-89-0
  - None-A,O
- Isopropyl alcohol
  - 67-63-0
  - 33.0
  - 400 ppm-A
  - 500 ppm-A 15 min(STEL)
  - 400 ppm-D 8812 hr
- Lead chromate
  - 16454-12-1
  - None-A,O
  - 50 µg/m³-A Pb
  - 12 µg/m³-A Cr
  - 1 mg/m³-A Cr Ceiling

**Additional Information**

- **Aromatic hydrocarbon A**: 64742-95-6
- **Aromatic hydrocarbon B**: 64742-94-5
Lead chromate molybdate 12635-85-8 None 50 µg/m³-A.O Pb 120 µg/m³-A Cr 1 mg/m³-A.O Ceiling
Medium mineral spirits 64742-85-7 None 100 ppm-D None-A.O
Methyl amyl ketone 110-43-0 2.2 50 ppm-A 100 ppm-O
Methyl ethyl ketone 78-93-3 71.0 200 ppm A,O 300 ppm A 15 min (STEL) 200 ppm-D 8&12 hr TWA 300 ppm-D 15 min TWA
Methyl isobutyl ketone 108-10-1 15.0 50 ppm-A 100 ppm-O 75 ppm-A 15 min (STEL)
Mixed dibasic esters Not Available 0.2 10 mg/m³-D None-A.O
Monoaazo red pigment 12236-52-3 None 10 mg/m³-A None-A.O
n-Butyl Alcohol 71-36-3 5.5 50 ppm -A Ceiling Skin 100 ppm -O 25 ppm-D 50 ppm-D 15 min TWA
Nickel oxide 1313-59-1 None 50 µg/m³-A Ni 1 mg/m³-O Ni
Nickel, Antimony, Titanium Yellow Pigment 6007-18-9 None 0.5 mg/m³-A O Sb 1 mg/m³-A.O Ni
Organoclay 68911-87-5 None None-A.O
Oxo-octyl acetate 108419-32-5 1.0 @ 25°C 50 ppm-S None-A.O
Phthalocyanine blue pigment 147-14-8 None 1 mg/m³-A.O CU, 6 hr
Phthalocyanine green pigment 1328-53-6 None 10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Polyester resin A 71010-58-7 None None-A.O
Polyester resin B 65086-73-9 None None-A.O
Polyisocyanate Not Available None None-A.O
Polyol None None-A.O
Polyol 822-06-0 Unknown 5.0 ppb -A None-O
Primary amyl acetate 828-63-7 4.0 100 ppm-A
Propylene glycol monomethyl ether acetate 108-65-7 3.7 10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Quinacridone pigment 1047-16-1 None None-A.O
Quinacridone yellow pigment 30125-47-4 None 10 mg/m³-A None-O
Silicone resin 9016-00-6 None None-A.O
Stoddard solvent 8052-41-3 None 100 ppm-A
Titanium dioxide 13463-67-7 None 10 mg/m³-A.O 5 mg/m³-O Resp 5 mg/m³-D
Toluene 108-88-3 36.7 50 ppm-A Skin 200 ppm-O Ceiling 300 ppm-O Ceiling 500 ppm-O 10 min MAX 50 ppm-D & 12 hr TWA
VM&P Naphtha 64742-89-8 15.0 @ 37.8°C 300 ppm-A.O 400 ppm-O Ceiling 15 min (STEL)

Section II - Physical Data

% volatile by weight: 9.96% - 100.0%
Boiling range: 54°C - 900°C
Flash point: 120°F - 150°F
Gallon weight: 6.89 - 15.58 libragtion

Section III - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.
Flammable limits: 0.8% - 11.5%
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended.
The product is flammable. Inhalation, skin contact, or ingestion can lead to health effects.

Section V - Health Hazard Data

General Effects:
Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. DO NOT INDUCE VOMITING.
Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye irritation, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.
Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Specific Effects:
Acrylic Polymer-N & O Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. Aliphatic Polyisocyanate Resin & Aliphatic Polymeric Isocyanate: Repeated exposure may cause allergic skin rash, itching, swelling. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. Aromatic
Hydrocarbon-A & B Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Recurrent exposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. WARNING: This chemical is known to the State of California to cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Volatile, insoluble hydrocarbons may cause irritation of the mucous membranes of the nasal passages and eye. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known.

Section VI - Reactivity Data

Stability: Stable

Incompatibility (materials to avoid): Water, amines, metal salts

Hazardous decomposition products: CO, CO₂, smoke.

Hazardous polymerization: Will not occur.

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontaminating solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

- 20% Surfactant (Tergitol TMN 10) and 80% Water
- 0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

Section VIII - Special Protection Information
Section IX - Special Precautions

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

Other precautions: Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

Section X - Other Information

Section 313 Supplier Notification: The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

PRODUCT CODE INGREDIENTS (See Section II)

EZ-34505 acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylene glycol monobutyl ether acetate (3%), methyl amyl ketone, mixed dibasic esters, toluene (5%), xylene (0-1%), 2(2'-hydroxy-3,5-diteramylphenyl)benzotriazole

GAL WT: 8.14 WT PCT SOLIDS: 53.35 VOL PCT SOLIDS: 47.12

EZ-34515 aliphatic polycosanate polymer, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate (4%)

GAL WT: 8.70 WT PCT SOLIDS: 75.18 VOL PCT SOLIDS: 71.15

V-1955 aliphatic polyisocyanate, heptane, methyl amyl ketone, methyl ethyl ketone (5%), toluene (15%), 1,6-hexamethylene disiocyanate (0.2%)

GAL WT: 8.36 WT PCT SOLIDS: 63.70 VOL PCT SOLIDS: 55.19

12825 aliphatic polyisocyanate resin, aromatic hydrocarbon-a, butyl acetate, ethylenebenzene (3-5%), xylene (22-27%), 1,6-hexamethylene diisocyanate (0.0%)

GAL WT: 8.62 WT PCT SOLIDS: 62.98 VOL PCT SOLIDS: 55.67

12875 hexyl acetate isomers, propylene glycol monomethyl ether acetate, methylyl amyl ketone, 507H acrylic polymer-a, acrylic polymer-b, butyl acetate, carbon black, methyl amyl ketone, xylene (0-1%)

GAL WT: 8.24 WT PCT SOLIDS: 48.82 VOL PCT SOLIDS: 41.56

504H acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl carbate, carbon black, ethylbenzene (0-2%), methyl amyl ketone, phthalocyanine blue pigment, propylene glycol monomethyl ether acetate, xylene (5-6%)

GAL WT: 8.54 WT PCT SOLIDS: 49.94 VOL PCT SOLIDS: 43.38

501H acrylic polymer-a, acrylic polymer-b, butyl acetate, lead chromate (0-1%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (1-2%)

GAL WT: 8.22 WT PCT SOLIDS: 73.90 VOL PCT SOLIDS: 67.65

3400S acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylene glycol monobutyl ether acetate (3%), methyl amyl ketone, methyl ethyl ketone (6%) mixed dibasic esters, toluene (6%)

GAL WT: 8.08 WT PCT SOLIDS: 53.45 VOL PCT SOLIDS: 46.80

506H acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylbenzene (0-1%), methyl amyl ketone, phthalocyanine green pigment, toluene (1%), xylene (4-5%)

GAL WT: 8.27 WT PCT SOLIDS: 44.38 VOL PCT SOLIDS: 33.83

508H acrylic polymer-a, acrylic polymer-b, butyl acetate, lead chromate (0%), methyl amyl ketone, phthalocyanine blue pigment, propylene glycol monomethyl ether acetate, xylene (1-2%)

GAL WT: 8.58 WT PCT SOLIDS: 48.61 VOL PCT SOLIDS: 41.62
8965S  ethyl acetate, ethylene glycol monobutyl ether acetate (40%), methyl ethyl ketone (10%),
GAL WT: 7.51 VOL PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.51 VOC LE: 7.5 VOCAP: 7.5 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
8960S  beta-(3-(2H-benzotriazol-2-yl)-4-hydroxy-5-tert, ethyl acetate, methyl amyl ketone, polyester resin-b
GAL WT: 8.71 VOL PCT SOLIDS: 90.04 VOL PCT SOLIDS: 87.39
SOLVENT DENSITY: 8.71 VOC LE: 0.9 VOCAP: 0.9 H: 2 F: 2
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II
8950S  ethyl acetate, ethyl 3-ethoxy propionate, ethylbenzene (0-1%), methyl ethyl ketone (4%), polyester resin-a, xylene (2-3%)
GAL WT: 9.28 VOL PCT SOLIDS: 80.95 VOL PCT SOLIDS: 76.69
SOLVENT DENSITY: 7.27 VOC LE: 1.8 VOCAP: 1.8 H: 1 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
8960S  acrylic polymer-a, amorphous silica, beta-(3-(2H-benzotriazol-2-yl)-4-hydroxy-5-tert, ethyl acetate, isopropyl alcohol,
methyl amyl ketone, polyol
GAL WT: 7.99 VOL PCT SOLIDS: 67.20 VOL PCT SOLIDS: 61.06
SOLVENT DENSITY: 6.73 VOC LE: 2.6 VOCAP: 2.6 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
8975S  acrylic polymer-g, ethylbenzene (0-1%), hexyl acetate isomers, n-butyl alcohol (5%), toluene (3-4%), vm&p naphtha,
xylene (0-2%)
GAL WT: 8.15 VOL PCT SOLIDS: 61.50 VOL PCT SOLIDS: 51.67
SOLVENT DENSITY: 6.54 VOC LE: 3.2 VOCAP: 3.2 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB
8998S  dibutyl tin dilaurate (5%), 2,4-pentanedione,
GAL WT: 8.15 VOL PCT SOLIDS: 4.99 VOL PCT SOLIDS: 4.67
SOLVENT DENSITY: 8.12 VOC LE: 7.7 VOCAP: 7.7 H: 2 F: 3
R: 0 FLASH PT: BETWEEN 75 - 100 F (CC) OSHA STORAGE: IC

Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales

Prepared by D. G. Detweiler
MATERIAL SAFETY DATA SHEET

Section I - Product Identification

Emergency Telephone No.: SPIES HECKER Inc.
CHEMTREC - day or night 55 See Lane - Farmingdale, NY 11735
600-424-3300 (516) 777-7100

Product Class: Polyurethane resin

Trade Name: Parmaloyd Mixing Colour Series 285
WS 861 bluish green pearl

Art.-No. 351 1551 3

TSCA INFORMATION: All ingredients in this product are listed on EPA's TSCA Inventory of Chemical Substances.

Section II - Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS-No.</th>
<th>Percent</th>
<th>TLVs 1988</th>
<th>ACGIH TWA</th>
<th>STEL/C</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>61.3</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Mica</td>
<td>12001-20-2</td>
<td>6.1</td>
<td>2 mg/m³</td>
<td>C 50 ppm</td>
<td>—</td>
<td>sara</td>
</tr>
<tr>
<td>n-Butanol</td>
<td>71-35-3</td>
<td>4.5</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>sara</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-79-2</td>
<td>4.3</td>
<td>25 ppm</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Methyl pyrrolidone</td>
<td>872-50-4</td>
<td>1.6</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>2 - Dimethylamino ethanol</td>
<td>106-01-0</td>
<td>0.1</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<td>Solvents, total Impurities</td>
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<td>n.e.</td>
<td>n.e.</td>
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</tr>
<tr>
<td>Pigments</td>
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<td>5.5</td>
<td>n.e.</td>
<td>n.e.</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Filmformers, additives</td>
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<td>15.0</td>
<td>n.e.</td>
<td>n.e.</td>
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<td>—</td>
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Section III - Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Range</td>
<td>100 - 202</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>miscible</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Evaporation Rate (ether=1)</td>
<td>350</td>
</tr>
<tr>
<td>V.O.C. content</td>
<td>2.97 lb/gal</td>
</tr>
<tr>
<td>V.O.C. material</td>
<td>0.98 lb/gal</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>1.10</td>
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<tr>
<td>Appearance and Odor</td>
<td>liquid, green, typical</td>
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</tbody>
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Section IV - Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Flammability Classification: OSHA</td>
<td>Flammable Liquid</td>
</tr>
<tr>
<td>DOT:</td>
<td>Flammable Liquid</td>
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<tr>
<td>UN-N.O.:</td>
<td>not restricted</td>
</tr>
<tr>
<td>Extinguishing Media:</td>
<td>X Foam</td>
</tr>
<tr>
<td></td>
<td>X Dry Chemical</td>
</tr>
<tr>
<td></td>
<td>X &quot;Alcohol&quot; Foam</td>
</tr>
<tr>
<td></td>
<td>X Water Fog</td>
</tr>
<tr>
<td></td>
<td>X CO₂</td>
</tr>
<tr>
<td></td>
<td>X Other</td>
</tr>
</tbody>
</table>
| 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. Do not apply on hot surfaces.

Special Firefighting Procedures: Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

To protect firefighters from any hazardous decomposition products (see Sect.VII) full protective equipment, including self-contained breathing apparatus, is recommended.

*Not subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA), Section 313, C.F.R. 372. 15 C.F.R. 355 hazardous or pollutant / CAA Sec. 112(6)

prop: ingredient known to the State of California to cause cancer and birth defects or other reproductive harm. (California Proposition 65)

n.e. = not established
Effects of Overexposure:
Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

Skin or eye contact: Primary irritation.
Repeated exposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

Medical Conditions prone to aggravation by exposure: Do not use this product if you have chronic (long-term) lung or bronchial problems or if you have ever had a reaction to the ingredients stated in Section II.

Primary Route(s) of entry:
- [X] Inhalation
- [ ] Dermal
- [ ] Ingestion

Emergency and First Aid Procedures: Call a physician.
Inhalation: Remove from exposure to fresh air. If not breathing, give artificial respiration.
Eye contact: Flush immediately with plenty of water for at least 15 minutes.
Skin contact: Remove contaminated clothing; wash immediately with plenty of soap and water.
Ingestion: Do not induce vomiting. Keep warm and quiet.

Section VI - Reactivity Data

Stability
[X] Stable
[ ] Unstable

Hazardous Polymerization
[ ] May occur
[ ] Will not occur

Hazardous Decomposition Products
May produce hazardous fumes when heated to decomposition.
Fumes may contain carbon monoxide/carbon dioxide/nitrogen oxides

Conditions to avoid
Unknown

Incompatibility (materials to avoid)
Unknown

Photochemically reactive solvents:
No

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 sparks).
- Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools.

Waste Disposal Method:
Dispose in accordance with local, state, and federal regulations.
Do not incinerate closed containers.

Section VIII - Safe Handling and Use Information

Respiratory Protection:
Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamels mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

Ventilation:
Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.

Protective Gloves:
Impervious gloves required for prolonged or repeated contact.

Eye Protection:
Use safety eyewear designed to protect against splash of liquids.

Other Protective Equipment:
Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

Hygienic Practices:
Eye washes and safety showers in the workplace are recommended. Wash hands thoroughly and before eating or smoking.

Section IX - Special Precautions

Precautions to be taken in handling and storing:
- Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

Other Precautions:
Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time. Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.
# MATERIAL SAFETY DATA SHEET

## Section I - Product Identification

- **Date:** 1999-01-11
- **Emergency Telephone No.:** CHEMTREC - day or night: 800-424-8500
- **Product Class:** Polyurethane resin
- **Trade Name:** Fermahy Mix Colour Series 280

## Section II - Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS-No.</th>
<th>Percent</th>
<th>TLV 1998</th>
<th>STEL/C</th>
<th>TWA</th>
<th>CAS-No.</th>
<th>Percent</th>
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<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
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<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>4.2</td>
<td>25 ppm</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>n-Butanol</td>
<td>71-36-3</td>
<td>2.3</td>
<td>—</td>
<td>C 50 ppm</td>
<td>3</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Methyl pyrrolidone</td>
<td>872-50-4</td>
<td>1.5</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>2 - Dimethylamin ethanol</td>
<td>106-01-0</td>
<td>0.3</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Solvents, total impurities</td>
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<td>n.e.</td>
<td>n.e.</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Pigments</td>
<td>proprietary</td>
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<td>n.e.</td>
<td>n.e.</td>
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<tr>
<td>Filmformers, additives</td>
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<td>n.e.</td>
<td>n.e.</td>
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</tr>
</tbody>
</table>

## Section III - Physical Data

- **Boiling Range:** 100 - 202°C
- **Solubility in Water:** miscible
- **Vapor Pressure:** 0.20 hPa
- **Evaporation Rate (ethanol):** 2.29 lb/gal
- **Volatile Volume:** 77%
- **V.O.C. material:** 0.78 lb/gal
- **Specific Gravity:** 1.03
- **HMIS (NFPA) rating (health - fire - reactivity):** 1 - 2 - 0
- **Appearance and Odor:** Liquid, blue, typical

## Section IV - Fire and Explosion Hazard Data

- **Flammability Classification:** OSHA: Class III A
- **Flash Point:** 65°C
- **LEL (Lower Explosive Limit):** 2.4 Vol %
- **D.O.T.:** Flammable Liquid
- **UN-N.O.:** not restricted
- **Extinguishing Media:**
  - Foam
  - Dry Chemical
  - CO₂

**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. Do not apply on hot surfaces.

**Special Firefighting Procedures:**
Water: may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used fog nozzles are preferable.
To protect firefighters from any hazardous decomposition products (see Sect VI) full protective equipment, including self-contained breathing apparatus, is recommended.

**sae:** Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372 135 C.
**Pret:** Hazardous air pollutant (CAA Sec. 112D)
**Prop:** Ingredient known to the State of California to cause cancer and birth defects or other reproductive harm (California Proposition 65)

n.a. = not applicable
n.e. = not established
Section V - Health Hazard Data

Effects of Overexposure: Inhalation: irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

Skin or eye contact: Primary irritation. Repeated overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

Medical Conditions prone to aggravation by exposure: Do not use this product if you have chronic (long-term) lung or breathing problems or if you have ever had a reaction to the ingredients stated in section II.

Primary Route(s) of entry: X Dermal   X Inhalation   [] Ingestion

Emergency and First Aid Procedures: Call a physician.
Inhalation: Remove from exposure to fresh air. If not breathing give artificial respiration.
Eye contact: Flush immediately with plenty of water for at least 15 minutes.
Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.
Ingestion: Do not induce vomiting. Keep warm and quiet.

Section VI - Reactivity Data

Stability: [] Unstable   X Stable

Hazardous Polymerization: [] May occur   X Will not occur

Hazardous Decomposition Products: May produce hazardous fumes when heated to decomposition.
Fumes may contain carbon monoxide/carbon dioxide/nitrogen oxides

Conditions to avoid: Unknown
Incompatibility (materials to avoid): Unknown

Photochemically reactive solvents: No

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 sparks)
Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.
Do not incinerate closed containers

Section VIII - Safe Handling and use Information

Respiratory Protection: Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel mists. CI serve OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer’s instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

Ventilation: Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.

Protective Gloves: Impervious gloves required for prolonged or repeated contact.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other Protective Equipment: Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

Hygienic Practices: Eye washes and safety showers in the workplace are recommended. Wash hands thoroughly and before eating or smoking.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

Other Precautions: Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time.

Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.
MATERIAL SAFETY DATA SHEET

Section I - Product Identification

Date: 1997-12-03

Emergency Telephone No.: SPIES HECKER Inc.
CHEMREC - day or night: 800-424-9300
55 Sea Lane - Farmingdale, NY 11735
(516) 777-7100

Product Class: Polyacrylic resin

Trade Name: Permasolid HS Clear Coat 8030
Art.-No. 291 8030 B

TSCA INFORMATION: All ingredients in this product are listed on EPA's TSCA Inventory of Chemical Substances.

Section II - Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS-No.</th>
<th>Percent</th>
<th>Occupational Exposure Limits</th>
<th>Vapor Pressure hPa/20°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>123-85-4</td>
<td>2.6</td>
<td>150 ppm</td>
<td>150 ppm</td>
</tr>
<tr>
<td>Aromatic hydrocarbons mixture (C₉ - C₁₂)</td>
<td>64742-95-6</td>
<td>20.1</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Isobutyl alcohol</td>
<td>78-83-1</td>
<td>10.9</td>
<td>50 ppm</td>
<td>52 ppm</td>
</tr>
<tr>
<td>1,2,4-Trimethyl-Benzene*</td>
<td>96-63-5</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Ethoxycryl acetate</td>
<td>68518-90-4</td>
<td>6.4</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>2- Dimethylamin ethanol</td>
<td>106-01-0</td>
<td>0.5</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Solvents, total impurities*</td>
<td>proprietary</td>
<td>0.0</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Filmformers, additives</td>
<td>proprietary</td>
<td>68.9</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
</tbody>
</table>

Section III - Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Range</td>
<td>124 - 176°C</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Evaporation Rate (ether=1)</td>
<td>70</td>
</tr>
<tr>
<td>Viscosity (kg/m-s)</td>
<td>47%</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>0.89</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>liquid, colorless, typical</td>
</tr>
</tbody>
</table>

Section IV - Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability Classification</td>
<td>Class II Combustible Liquid</td>
</tr>
<tr>
<td>Flash Point</td>
<td>40°C</td>
</tr>
<tr>
<td>LEL</td>
<td>0.8 Vol %</td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Foam</td>
</tr>
<tr>
<td>Water</td>
<td>CO₂</td>
</tr>
</tbody>
</table>

Unusual Fire and Explosion Hazards:

- Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed container may explode when exposed to extreme heat. Do not apply in hot surfaces.
- Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.
- To protect firefighters from any hazardous decomposition products (see Sect. VI) full protective equipment, including self-contained breathing apparatus, is recommended.

* Ingredients subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.15 C.
* Certain ingredients which is known to the State of California to cause cancer and birth defects or other reproductive harm (California Proposition 65)

n.a. = not applicable
n.e. = not established

LV:19/07/101/03/05
225
Section V - Health Hazard Data

Effects of Overexposure: Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

Skin or eye contact: Primary Irritation
Repeated overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

Medical Conditions prone to aggravation by exposure: Do not use this product if you have chronic (long-term) lung or breathing problems or if you have ever had a reaction to the ingredients stated in section II.

Primary Route(s) of entry: Inhalation
Emergency and First Aid Procedures: Call a physician
Inhalation: Remove from exposure to fresh air. If not breathing give artificial respirator.
Eye contact: Flush immediately with plenty of water for at least 15 minutes.
Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.
Ingestion: Do not induce vomiting. Keep warm and quiet.

Section VI - Reactivity Data

Stability: [X] Stable
Hazardous Polymerization: [X] Will not occur
Hazardous Decomposition Products: May produce hazardous fumes when heated to decomposition. Fumes may contain carbon monoxide/carbon dioxide/nitrogen oxide.
Conditions to avoid: Unknown
Incompatibility (materials to avoid): Unknown
Photochemically reactive solvents: Yes

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 sparks).
Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-spark ng tools.
Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.
Do not incinerate closed containers.

Section VIII - Safe Handling and Use Information

Respiratory Protection: Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminants against which the respirator is effective.
Ventilation: Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.
Protective Gloves: Impervious gloves required for prolonged or repeated contact.
Eye Protection: Use safety eyewear designed to protect against splash of liquids.
Other Protective Equipment: Wear imperious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.
Hygienic Practices: Eye washes and safety showers in the workplace is recommended. Wash hands thoroughly and before eating or smoking.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

Other Precautions: Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time. Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.
MATERIAL SAFETY DATA SHEET

Section I - Product Identification

Date: 18/12/02

Emergency Telephone No.: SPIES HECKER Inc.
CHEMTREC - day or night 800-424-9300 85 Sea Lane - Flamingo, NY 11736
Product Class: Polyacrylate (518) 777-7100
Trade Name: Permahyd 1K Primer Surfacer 4100 Art.-No. 291 4100 1

TSCA INFORMATION: All ingredients in this product are listed on EPA’s TSCA Inventory of Chemical Substances.

Section II - Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS-No.</th>
<th>Percent</th>
<th>TLV</th>
<th>PEL</th>
<th>Vapor Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>33.4</td>
<td>n.e.</td>
<td>n.e.</td>
<td>23.37</td>
</tr>
<tr>
<td>2 - Butoxyethanol</td>
<td>111-76-2</td>
<td>6.4</td>
<td>25 ppm</td>
<td>25 ppm</td>
<td>0.90</td>
</tr>
<tr>
<td>Zinc phosphate*</td>
<td>7778-00-0</td>
<td>0.3</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Silica, Quartz*</td>
<td>14808-60-7</td>
<td>1.9</td>
<td>0.1 mg/m³</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Solvents, total impurities</td>
<td>proprietary</td>
<td>0.2</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Pigments</td>
<td>proprietary</td>
<td>30.0</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Filmformers, additives</td>
<td>proprietary</td>
<td>18.8</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
</tbody>
</table>

Section III - Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Range</td>
<td>100 - 171°C</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>miscible</td>
</tr>
<tr>
<td>Vapor Density (Al=1)</td>
<td>&gt;1 hPa</td>
</tr>
<tr>
<td>Evaporation Rate (ether=1)</td>
<td>153 V.O.C. coating: 1.48 lbs/gal 177 g/l</td>
</tr>
<tr>
<td>Volatile Volume Percentage</td>
<td>58%</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>1.35</td>
</tr>
<tr>
<td>HMIS (NFPA) rating</td>
<td>1-2-0</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>liquid, beige, typical</td>
</tr>
</tbody>
</table>

Section IV - Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Flammability Classification</th>
<th>OSHA: Class III A</th>
<th>Flash Point: 80°C</th>
<th>LEL 23.5 Vol %</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT: combustible Liquid</td>
<td>restricted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UN-NO.: not restricted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extinguishing Media:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foam</td>
<td>□</td>
<td>“Alcohol” Foam</td>
<td>X CO₂</td>
</tr>
<tr>
<td>Dry Chemical</td>
<td>X</td>
<td>Water Fog</td>
<td>□ Other</td>
</tr>
<tr>
<td>Unusual Fire and Explosion Hazards:</td>
<td>Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Firefighting Procedures:</td>
<td>Water may be used to cool containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. To protect firefighters from any hazardous decomposition on products (see Sect.VI) full protective equipment, including self-contained breathing apparatus, is recommended.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.6 C. |
* Contains ingredient which is known to the State of California to cause cancer (California Proposition 65)

n.e. = not applicable
n.a. = not applicable
Section V - Health Hazard Data

Effects of Overexposure: Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, coma.

Skin or eye contact: Primary irritation

Repeated overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

Medical Conditions prone to aggravation by exposure: Do not use this product if you have chronic (long-term) lung or breathing problems or if you have ever had a reaction to the ingredients stated in section II.

Primary Route(s) of entry: X Dermal  X Inhalation  Ingestion

Emergency and First Aid Procedures: Call a physician

Inhalation: Remove from exposure to fresh air. If not breathing give artificial respiration.
Eye contact: Flush immediately with plenty of water for at least 15 minutes.
Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.
Ingestion: Do not induce vomiting. Keep warm and quiet.

Section VI - Reactivity Data

Stability

☐ Unstable  X Stable

Hazardous Polymerization

☐ May occur  X Will not occur

Hazardous Decomposition Products

May produce hazardous fumes when heated to decomposition.
Fumes may contain carbon monoxide/carbon dioxide/nitrogen oxide:

Conditions to avoid

Unknown

Incompatibility (materials to avoid):

Unknown

Photochemically reactive solvents:

No

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 sparks).
Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparkng tools.

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.
Do not incinerate closed containers.

Section VIII - Safe Handling and use Information

Respiratory Protection: Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel rinses. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer’s instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

Ventilation: Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.

Protective Gloves: Impervious gloves required for prolonged or repeated contact.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other Protective Equipment: Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

Hygienic Practices: Eye washes and safety showers in the workplace is recommended. Wash hands thoroughly and before eating or smoking.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

Other Precautions: Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time.

Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product.

Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability.

In connection with any use of this information.
MATERIAL SAFETY DATA SHEET

Section I - Product Identification

Date: 1996-01-01

Emergency Telephone No.: 800-424-9330
CHEMTREC - day or night

Product Class: Polyacryllic resin

Trade Name: Permasolid VHS Wet on Wet Surfacer 5190

Early TRC Information: All ingredients of this product are listed on EPA's TSCA Inventory of Chemical Substances.

Section II - Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS-No.</th>
<th>Percent</th>
<th>TLV</th>
<th>PE</th>
<th>Vapor Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>123-88-4</td>
<td>7.3</td>
<td>150 ppm</td>
<td>120 ppm</td>
<td>13.00</td>
</tr>
<tr>
<td>Methoxypyrrol acetate</td>
<td>108-85-6</td>
<td>2.8</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Ethoxypyrrol acetate</td>
<td>95-10-4</td>
<td>1.9</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Aromatic hydrocarbons mixture</td>
<td>64742-95-6</td>
<td>1.2</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>1,2,4-Trimethyl-Benzene*</td>
<td>95-83-6</td>
<td>0.6</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Zinc phosphate*</td>
<td>7779-90-0</td>
<td>7.8</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Silica, Quartz*</td>
<td>14808-60-7</td>
<td>5.2</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Solvents, total impurities*</td>
<td>proprietary</td>
<td>0.7</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Pigments</td>
<td>proprietary</td>
<td>55.0</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Filmformers, additives</td>
<td>proprietary</td>
<td>17.5</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
</tbody>
</table>

Section III - Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Range</td>
<td>124 - 178°C</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>moderate</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Evaporation Rate (ether=1)</td>
<td>70</td>
</tr>
<tr>
<td>Volatile Volume</td>
<td>34%</td>
</tr>
<tr>
<td>Specific Gravity (H2O=1)</td>
<td>2.00</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>liquid, beige, typical</td>
</tr>
</tbody>
</table>

Section IV - Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Flammability Classification:</th>
<th>OSHA: Class I C</th>
<th>Flash Point: 23°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT:</td>
<td>Flammable Liquid</td>
<td></td>
</tr>
<tr>
<td>UN-NO.:</td>
<td>19263</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Extinguishing Media:</th>
<th>Foam</th>
<th>□ <em>Alcohol</em> Foam</th>
<th>■ CO2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Chemical</td>
<td>✪</td>
<td>□ Water Fog</td>
<td>□ Other</td>
</tr>
</tbody>
</table>

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electric equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not apply on hot surfaces.

Special Firefighting Procedures: Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used fog nozzles are preferable. To protect firefighters from any hazardous decomposition in products, see Sect. VI full protective equipment, including self-contained breathing apparatus, is recommended.

* Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 42 CFR 372.86 C.
* Contains ingredient which is known to the State of California to cause cancer and birth defects or other reproductive harm (California Proposition 65)

n.e. = not applicable  
n.e. = not established
Effects of Overexposure: Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

Skin or eye contact: Primary irritation
Repetitive overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

Medical Conditions prone to aggravation by exposure: Do not use this product if you have chronic (long-term) lung or breathing problems or if you have ever had a reaction to the ingredients stated in section II.

Primary Route(s) of entry: 
- X Dermal
- X Inhalation
- Ingestion

Emergency and First Aid Procedures: Call a physician
- Inhalation: Remove from exposure to fresh air. If not breathing give artificial respiration.
- Eye contact: Flush immediately with plenty of water for at least 15 minutes.
- Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.
- Ingestion: Do not induce vomiting. Keep warm and quiet.

Section VI - Reactivity Data

Stability
- Unsable
- X Stable

Hazardous Polymerization
- May occur
- X Will not occur

Hazardous Decomposition Products
- May produce hazardous fumes when heated to decomposition.
- Fumes may contain carbon monoxide/carbon dioxide

Conditions to avoid
- Unknown

Incompatibility (materials to avoid):
- Unknown

Photochemically reactive solvents:
- No

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 sparks).
- Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools.

Waste Disposal Method:
- Dispose in accordance with local, state, and federal regulations.
- Do not incinerate closed containers.

Section VIII - Safe Handling and use Information

Respiratory Protection:
- Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminant against which the respirator is effective.

Ventilation:
- Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and STEL below stated limits.

Protective Gloves:
- Impervious gloves required for prolonged or repeated contact.

Eye Protection:
- Use safety eyewear designed to protect against splash of liquids.

Other Protective Equipment:
- Wear imperious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

Hygienic Practices:
- Eye washes and safety showers in the workplace is recommended. Wash hands thoroughly and before eating or smoking.

Section IX - Special Precautions

Precautions to be taken in handling and storing:
- Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

Other Precautions:
- Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time. Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.
MATERIAL SAFETY DATA SHEET

Section I - Product Identification

Date: 1987-12-03

Emergency Telephone No.: SPIES HECKER Inc.
CHEMTREC - day or night 800-424-8300
65 Sea Lane - Farmingdale, NY 11735
(516) 777-7100

Product Class: Polyacrylic - Polyester resin

Trade Name: Permasolid 3:1 VHS Surfacer 5150
Art-No. 291 5150 3

TSCA INFORMATION: All ingredients in this product are listed on EPA's TSCA Inventory of Chemical Substances.

Section II - Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS-No.</th>
<th>Percent</th>
<th>TLV</th>
<th>PEL</th>
<th>Vapor Pressure hPa/20°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethyl acetate</td>
<td>112-07-2</td>
<td>1.9</td>
<td>20 ppm</td>
<td>20 ppm</td>
<td>0.30</td>
</tr>
<tr>
<td>Methoxypropyl acetate</td>
<td>108-86-6</td>
<td>1.5</td>
<td>n.e.</td>
<td>n.e.</td>
<td>5.30</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>123-86-4</td>
<td>7.8</td>
<td>150 ppm</td>
<td>150 ppm</td>
<td>13.00</td>
</tr>
<tr>
<td>Zinc phosphate*</td>
<td>7779-90-0</td>
<td>7.2</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Solvents, total impurities*</td>
<td>proprietary</td>
<td>5.9</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Pigments</td>
<td>proprietary</td>
<td>62.0</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
<tr>
<td>Filmformers, additives</td>
<td>proprietary</td>
<td>17.3</td>
<td>n.e.</td>
<td>n.e.</td>
<td>n.e.</td>
</tr>
</tbody>
</table>

Section III - Physical Data

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Range</td>
<td>124 - 188°C</td>
<td>Solubility in Water:</td>
<td>moderate</td>
<td></td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>&gt;1</td>
<td>Vapor pressure:</td>
<td>1.20 hPa</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate (ether=1)</td>
<td>100</td>
<td>V.O.C. coating:</td>
<td>2.01 lbs/gal</td>
<td>241 g/l</td>
</tr>
<tr>
<td>Volatile Volume</td>
<td>29%</td>
<td>V.O.C. material:</td>
<td>2.01 lbs/gal</td>
<td>241 g/l</td>
</tr>
<tr>
<td>Specific Gravity (H2O=1)</td>
<td>1.78</td>
<td>HMX (NFPA) rating (health - fire - reactivity)</td>
<td>1 - 2 - 0</td>
<td></td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>liquid, beige, typical</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section IV - Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Flammability Classification:</th>
<th>OSHA: Class I</th>
<th>Flash Point: 23°C</th>
<th>LEL 0.9 Vol %</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT:</td>
<td>Flammable Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UN-No.:</td>
<td>1263</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Extinguishing Media: Foam: □ Alcohol Foam: □ CO2: □ Dry Chemical: □ Water Fog: □ Other: □

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed container may explode when exposed to extreme heat. Do not apply on hot surfaces.

Special Firefighting Procedures: Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used fog nozzles are preferable. To protect fire fighters from any hazardous decomposition products (see Sect.VI) full protective equipment, including self-contained breathing apparatus, is recommended.

* Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.55 C.

n.a. = not applicable  n.e. = not established
Section V - Health Hazard Data

Effects of Overexposure: Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

Skin or eye contact: Primary irritation

Repeated exposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

Medical Conditions prone to aggravation by exposure: Do not use this product if you have chronic (long-term) lung or breathing problems or if you ever had a reaction to the ingredients stated in section II.

Primary Route(s) of entry: 
- Inhalation
- Ingestion

Emergency and First Aid Procedures: Call a physician.
- Inhalation: Remove from exposure to fresh air. If not breathing, give artificial respiration.
- Eye contact: Flush immediately with plenty of water for at least 15 minutes.
- Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.
- Ingestion: Do not induce vomiting. Keep warm and quiet.

Section VI - Reactivity Data

Stability: X Stable

Hazardous Polymerization: May not occur

Hazardous Decomposition Products: May produce hazardous fumes when heated to decomposition.

Fumes may contain carbon monoxide/carbon dioxide

Conditions to avoid: Unknown

Incompatibility (materials to avoid): Unknown

Photochemically reactive solvents: No

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 sparks).

Avoid breathing vapors. Ventilate area. Remove with inert absorbents and non-sparking tools.

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Do not incinerate closed containers.

Section VIII - Safe Handling and Use Information

Respiratory Protection: Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

Ventilation: Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.

Protective Gloves: Impervious gloves required for prolonged or repeated contact.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other Protective Equipment: Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

Hygienic Practices: Eye washes and safety showers in the workplace are recommended. Wash hands thoroughly and before eating or smoking.

Section IX - Special Precautions

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APPENDIX C

LETTERS FROM NATIONAL PAINT & COATINGS ASSOCIATION
AND DUPONT
March 1, 2000

Dr. Eddy Huang, Ph.D.
AVES (Affiliate of ATC Associates)
50 East Foothill Boulevard
Arcadia, California 91006

Dear Eddy:

As I informed your colleague Mr. Saunders previously, the members of the NPCA Automotive Refinish Coalition believe that the advanced lower VOC coatings that are currently being marketed in the South Coast Air Quality Air Management District (SCAQMD) should be reviewed by your study for potential future developments of coatings technology.

Ongoing research and development efforts of the individual coatings companies is highly proprietary information. The companies do not feel comfortable providing it for your study. While they recognize that the information would be treated as confidential business information, they nonetheless remain concerned that, despite your best efforts or those of CARB, the information may nonetheless become public in some way. More fundamentally, however, there is a bigger concern. The information might be misleading. Current R&D efforts are no guarantee of what future coatings technology will be. Also the general trends in coatings technology developments in this area are adequately discussed in the literature.

One last note. In doing your study you should keep in mind that not all of the shops in existence today will be able to use the more advanced lower VOC automotive refinish coatings systems. In general the trend toward lower VOC coatings, irrespective of whether they are high solids solventborne systems or waterborne systems, will mean that adjustments of the coating to meet substrate and application conditions will not be feasible through adjustment of the amount of solvent in the coating. To meet these varying conditions, the shops will have to be comparatively more sophisticated in their equipment and configuration, e.g., drying equipment, enclosed drying booths.

Please let me know if I can be of further assistance.

Sincerely,

Jim Sell
Senior Counsel
Dr. Eddy Huang, Ph.D.
AVES (Affiliate of ATC Associates)
50 East Foothill Boulevard
Arcadia, California 91006

Dear Eddy:

As I informed you in our phone conversation yesterday, DuPont is not prepared to offer R&D coatings candidates for your planned study. What we can do is to identify the lowest VOC containing products that DuPont offers commercially to the refinish industry. The best example of these can be found in the VOC COMPLIANCE CHART for the SCAQMD; a copy of the chart is attached for your inspection.

You can purchase selected samples for your study from nearby jobber locations given below. I have tried to identify the closest locations based on your above address.

1. D’Angelo & Sons, 1260 S. Central Ave., Glendale, Ca (818-244-7246)
2. El Monte Auto Paint, 3435 N. Tyler Ave., Box 4309, El Monte, Ca 91731 (626-401-3598)
3. Finishmaster, 2591 E. Foothill Blvd, Pasadena, Ca 91107 (626-795-4319)

The jobbers also have Product Data Sheets and other useful user information that could be of help in your study. They could also be a good source of some local body shop locations that could provide direct effects on coatings based on the shop’s equipment use and configuration.

Please let me know if I can be of further assistance.

Sincerely,

Karl R. Schultz
Environmental Consultant