

# Work Group Meeting 11:

- ❖ Charcoal Lighter Material
- ❖ Crawling Bug Insecticide
- ❖ Nail Polish/Lacquer/Paint

July 2, 2019  
10:00 am-12:00pm



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## Work Group Outline

**Category Order:** Charcoal Lighter Material, Crawling Bug Insecticide, and Nail Polish/Lacquer/Paint

### For Each Category Presented

- ❖ Category Definition
- ❖ Category Overview
  - ❖ Companies
  - ❖ Products
  - ❖ VOC Content
  - ❖ Product Weighted Maximum Incremental Reactivity (PWMIR)
  - ❖ TOG MIR
- ❖ Product Groups
- ❖ VOC Breakdown
- ❖ Possible VOC Thresholds
- ❖ Regulatory Pathways
- ❖ Discussion and Questions

**What's Next?**

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**Email questions during the meeting to:  
[joe.calavita@arb.ca.gov](mailto:joe.calavita@arb.ca.gov)**

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## **Charcoal Lighter Material**

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## Charcoal Lighter Material

“Charcoal Lighter Material” means any combustible material designed to be applied on, incorporated in, added to, or used with charcoal to enhance ignition.

“Charcoal Lighter Material” does not include any of the following: (A) electrical starters and probes, (B) metallic cylinders using paper tinder, (C) natural gas, (D) propane, and (E) fat wood.

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## Charcoal Lighter Material VOC Limit and Certification History

- ❖ VOC limit 0.020 lb/start (SCAQMD Rule 1174 Ignition Method Compliance Testing Protocol)
- ❖ Only CARB certified category
- ❖ Almost 70 companies have certified charcoal lighter material products with CARB
- ❖ More than 500 various charcoal lighter material products have been certified
- ❖ More than 150 Executive Orders for charcoal lighter material products have been issued

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## Charcoal Lighter Material

### Category Overview

Reporting Companies	• 15
Reported Products	• 47
SWA-VOC Content	• 54.09%
VOC (tpd)	• 1.98
PWMIR	• 0.04
TOG MIR	• 0.72

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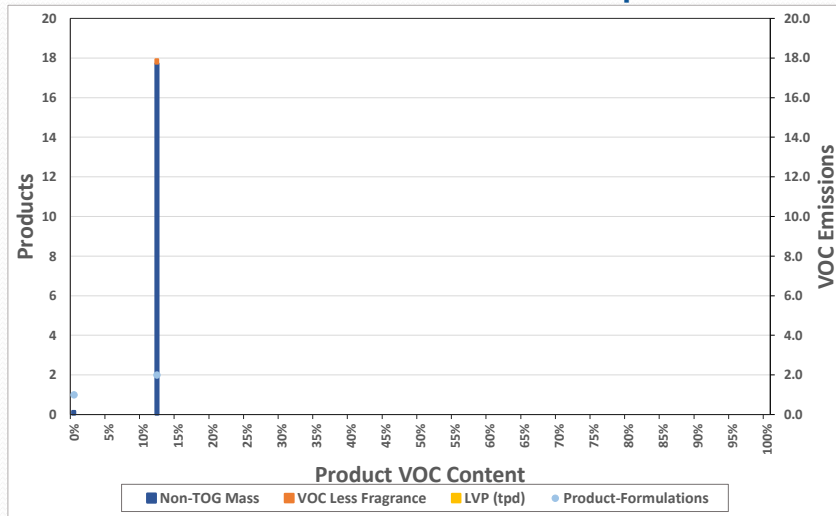
## Charcoal Lighter Briquettes

### Category Overview

Reporting Companies	• 6
Reported Products	• 20
SWA-VOC Content	• 11.88%
VOC (tpd)	• 0.22
TOG MIR	• 0.70

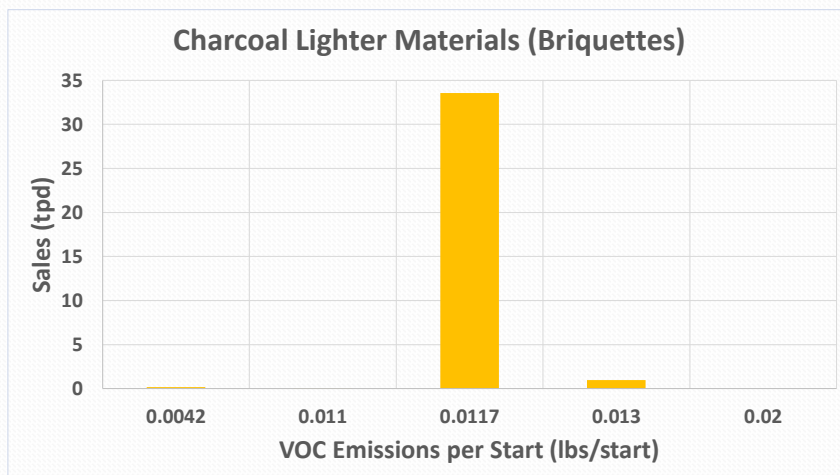
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## Charcoal Lighter Material Briquettes VOC Content Product Groups



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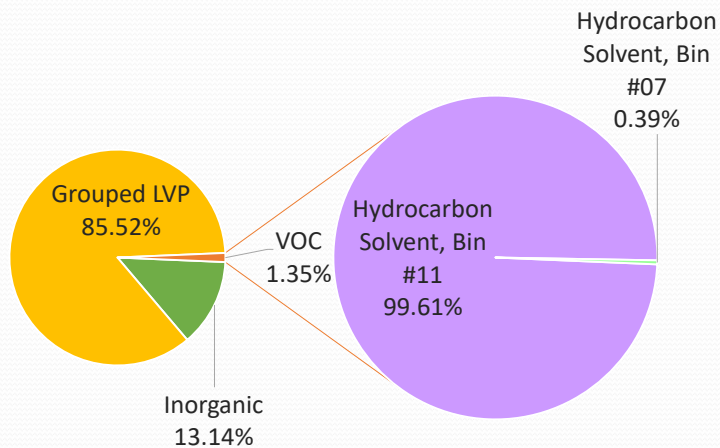
## Charcoal Lighter Material Briquettes VOC Certification Level Product Groups



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## Charcoal Lighter Briquettes

### Speciation and VOC Breakdown



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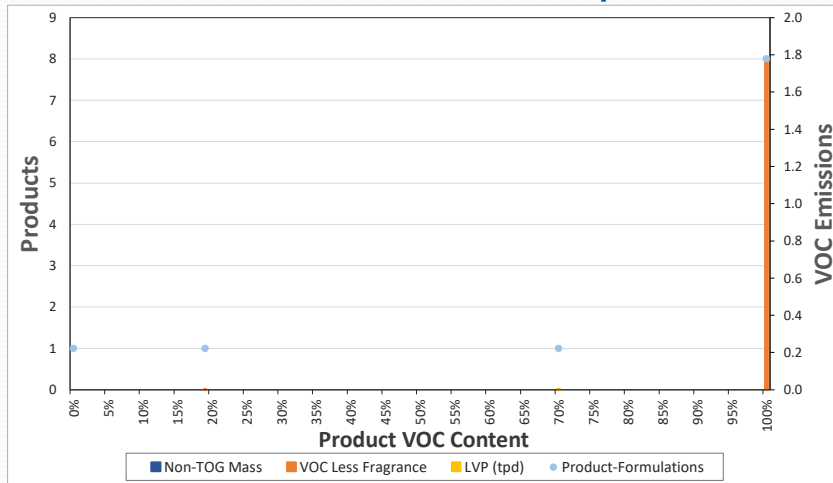
## Charcoal Lighter Fluid

### Category Overview

Reporting Companies	• 15
Reported Products	• 27
SWA-VOC Content	• 95.61%
VOC (tpd)	• 1.76
TOG MIR	• 0.72

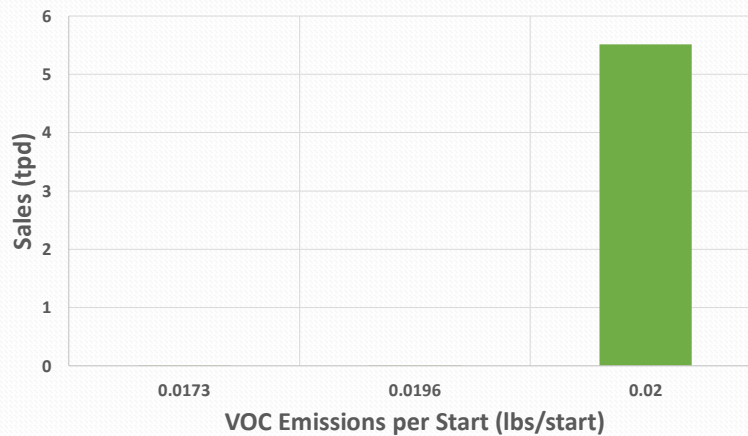
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## Charcoal Lighter Fluid VOC Content Product Groups



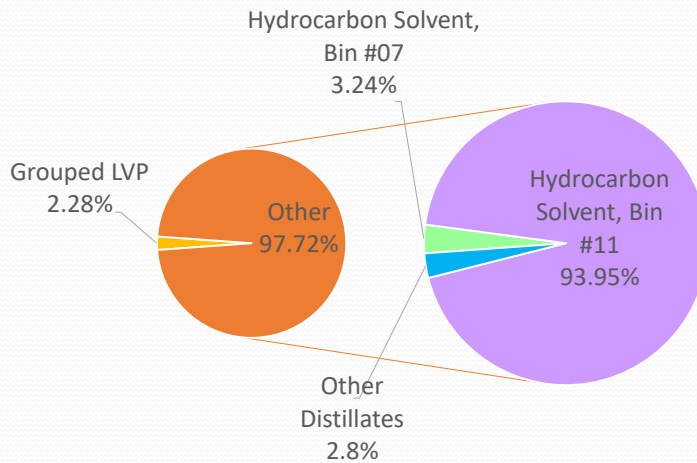
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## Charcoal Lighter Fluid VOC Certification Level Product Groups Charcoal Lighter Material (Lighter Fluid)



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## Charcoal Lighter Fluid Speciation and VOC Breakdown



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## Charcoal Lighter Material Conclusion

- ❖ Potential for VOC reductions
- ❖ Further discussion with stakeholders is needed

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## **Discussion & Questions**

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## **Aerosol Crawling Bug Insecticide**

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## Aerosol Crawling Bug Insecticide

### Definition and VOC Limits

“Crawling Bug Insecticide” means any insecticide product that is designed for use against ants, cockroaches, or other household crawling arthropods, such as mites, silverfish or spiders. “Crawling Bug Insecticide” does not include products designed to be used exclusively on humans or animals, or any house dust mite product.

Regulatory History:

- ❖ 1995 VOC Limit: 40%
- ❖ 1998 VOC Limit: 20%
- ❖ 2004 VOC Limit: 15%

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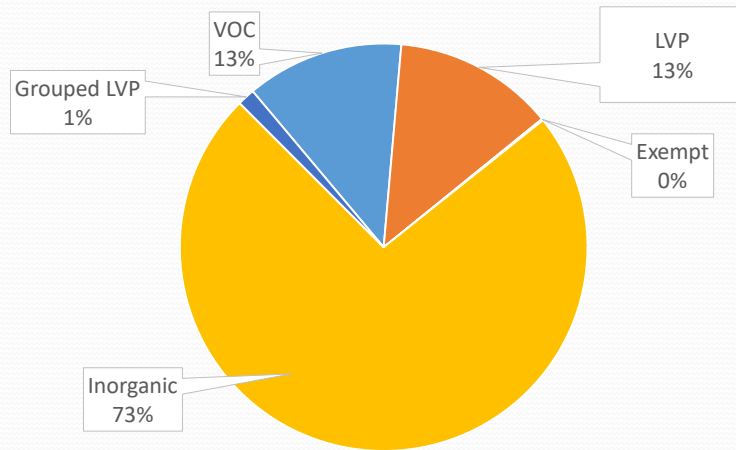
## Aerosol Crawling Bug Insecticide

### Category Overview

Number of Companies	• 32
Number of Products	• 210
VOC Emissions (tpd)	• 1.74
LVP Emissions (tpd)	• 1.78
Sales Weighted Average VOC	• 12.39 %
PWMIR (mass O3/mass product)	• 0.29
TOG MIR (mass O3/mass TOG)	• 0.91

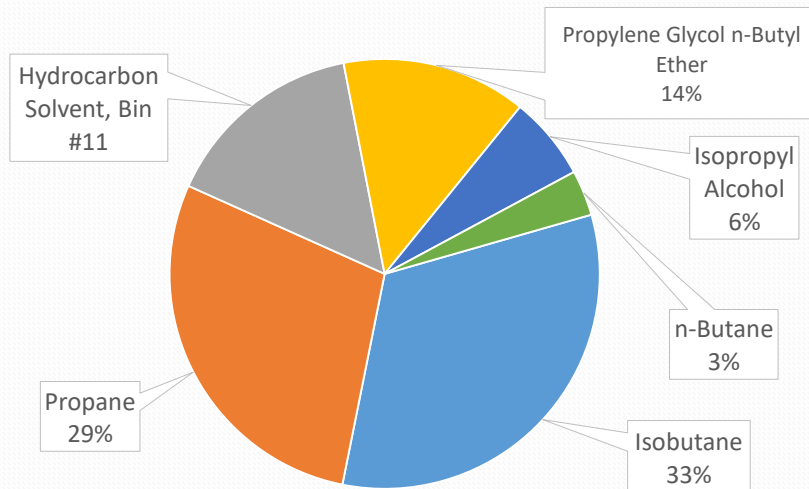
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## Aerosol Crawling Bug Insecticide Speciation Breakdown



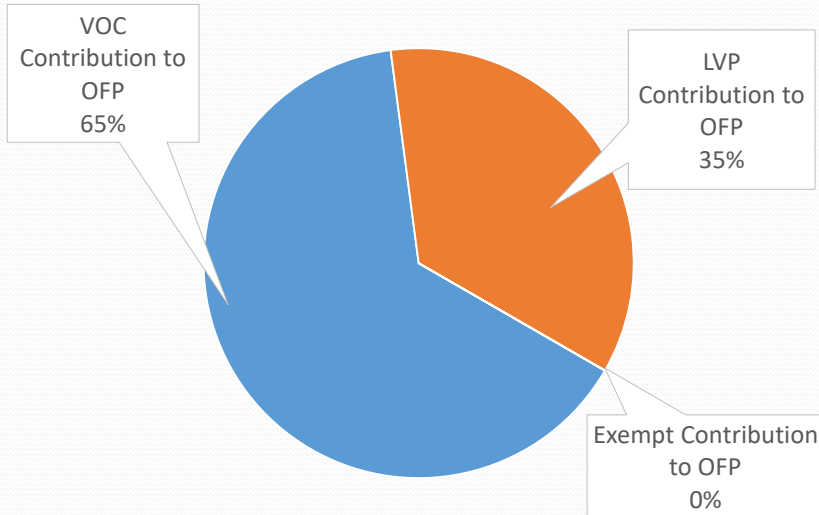
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## Aerosol Crawling Bug Insecticide VOC Speciation Breakdown



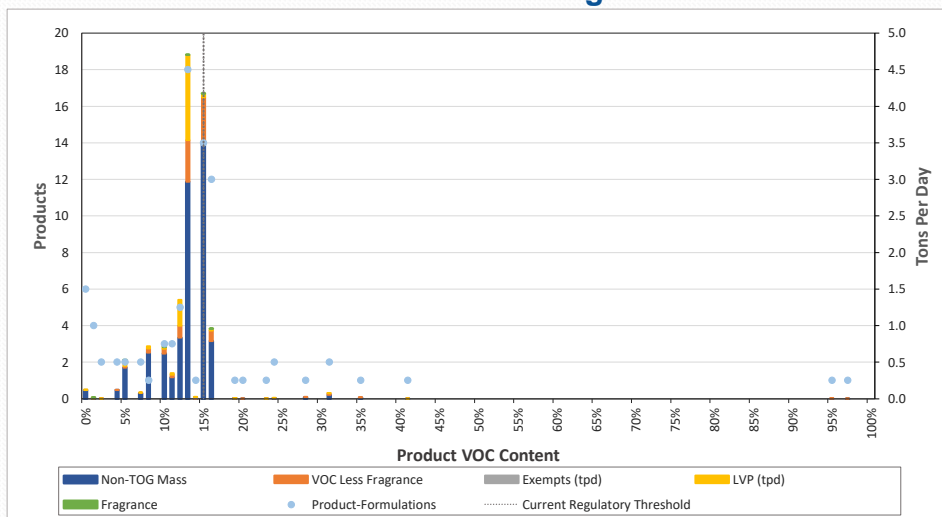
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## Aerosol Crawling Bug Insecticide Speciated Contribution to Ozone Forming Potential



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## Aerosol Crawling Bug Insecticide VOC Content Histogram



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## Aerosol Crawling Bug Insecticide Example VOC Thresholds

Possible VOC Limit	10%	12%	13%
VOC Tons Per Day Reduced	0.42	0.20	0.10
Complying Market Share (Product-Formulations)	25%	34%	55%
Complying Market Share (Mass)	16%	29%	62%

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## Discussion & Questions

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# Nail Polish/Lacquer/Paint

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## Nail Polish/Lacquer/Paint Definition

“Nail Polish” means any clear or colored coating designed for application to the fingernails or toenails and including but not limited to, lacquers, enamels, acrylics, base coats and top coats.

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## Nail Polish/Lacquer/Paint

- ❖ Not currently regulated by CARB
- ❖ Per definition, Base Coat/Undercoat and Top Coat products are also included
- ❖ Prior to 2013-2015, last surveyed in 2003
- ❖ Main ingredients in all 3 categories are similar

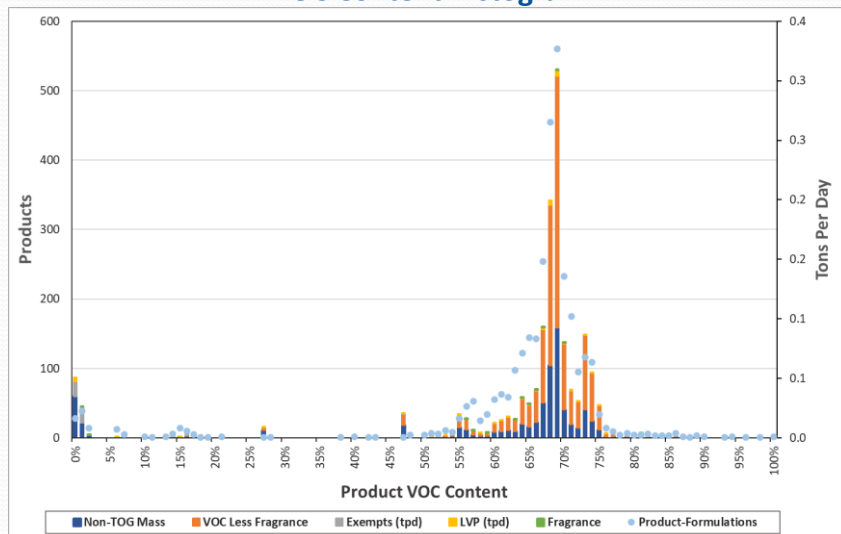
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## Nail polish/lacquer/paint Category Overview

Number of Companies	• 74
Number of Products	• 13,487
VOC Emissions (tpd)	• 0.81
Sales Weighted Average VOC Content	• 62.62%
PWMIR	• 0.48
TOG MIR	• 0.72

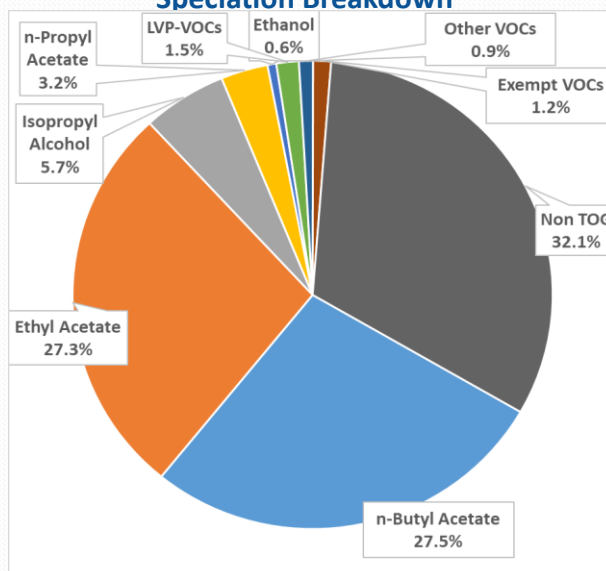
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## Nail polish/Lacquer/Paint VOC Content Histogram



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## Nail Polish/Lacquer/Paint Speciation Breakdown



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## Nail polish/lacquer/paint Example VOC Thresholds

Possible VOC Limit	50%	55%	60%	65%
VOC Tons Per Day Reduced	0.21	0.16	0.10	0.05
Complying Market Share (Product-Formulations)	5%	7%	14%	29%
Complying Market Share (Mass)	9%	12%	15%	23%

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## Department of Toxic Substances Control (DTSC) and Assembly Bill 2125

- ❖ Establish and Implement Healthy Nail Salon Recognition Programs
- ❖ Assembly Bill 2125:  
[https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201520160AB2125](https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160AB2125)
- ❖ Safer Consumer Products Program

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## DTSC SB 2125 Regulatory Efforts

- ❖ Healthy Nail Salon Recognition Guidelines:  
<https://dtsc.ca.gov/wpcontent/uploads/sites/31/2018/10/AB2125-HNSR-Program-Guidelines.pdf>
- ❖ Healthy Nail Salon Recognition Program:  
<https://dtsc.ca.gov/scp/healthy-nail-salon-recognition-program/>
- ❖ DTSC Toluene in Nail Products Workshop (March 2019):  
<https://www.youtube.com/watch?v=TG1T10FP1V8>

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## Discussion & Questions

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## What's Next?

- ❖ July 17, 2019: First Regulatory Definitions workgroup meeting
- ❖ August 2019: Next round of category workgroups
- ❖ Fall 2019: Public workshop to identify and quantify emissions benefits of regulatory options
- ❖ Late 2019/Early 2020: Additional public workshop(s) as needed
- ❖ Ongoing: Meet with interested stakeholders
- ❖ Late 2020: Proposed regulatory amendments for Board consideration

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## Consumer Product Regulatory Definitions Work Group Meeting

Date: Wednesday, July 17, 2019  
Time: 9:00 a.m. -12:00 p.m. PDT  
Location: California Air Resources Board  
Monitoring and Laboratory Division  
First Floor Conference Room  
1927 13th Street  
Sacramento, CA 95811

Interested participants can attend this work group meeting in person or via teleconference. No RSVP required. Stakeholders not attending in person can participate through teleconference:

USA Toll-Free: (877) 402-9753  
USA Caller Paid/International Toll: (636) 651-3141  
ACCESS CODE: 8553320

For more information contact Nicholas Berger at  
(916) 327-1516 or [nicholas.berger@arb.ca.gov](mailto:nicholas.berger@arb.ca.gov)

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