Work Group Meeting for Aerosol Disinfectant, Nonaerosol Disinfectant, Anti-microbial Dry Hand Wash (Hand Sanitizer), Anti-microbial Hand or Body Cleaner or Soap, and Rubbing Alcohol

June 27, 2019



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# **Work Group Outline**

**Category Order:** Aerosol Disinfectant, Nonaerosol Disinfectant, Anti-microbial Dry Hand Wash (Hand Sanitizer), Anti-microbial Hand or Body Cleaner or Soap, and Rubbing Alcohol

### For Each Category Presented

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

### What's Next?

Email questions during the meeting to: josh.berghouse@arb.ca.gov

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# Disinfectants

## **Disinfectants Definition**

"Disinfectant" means a product that is labeled as a "disinfectant", or is labeled to destroy or irreversibly inactivate infectious or other undesirable bacteria, pathogenic fungi, or viruses on surfaces or inanimate objects and whose label is registered as a "disinfectant" under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA, 7 U.S.C. 136, et seq.). Products that are labeled as both a "sanitizer" and a "disinfectant" are considered disinfectants.

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# **Disinfectants Definition (Cont.)**

"Disinfectant" does not include any of the following: (A) products labeled solely for use on humans or animals, (B) products labeled solely for agricultural use, (C) products labeled solely for use in swimming pools, therapeutic tubs, or hot tubs, (D) products which are labeled to be used on heat sensitive critical or semi-critical medical devices or medical equipment surfaces, (E) products which are pre-moistened wipes or towelettes sold exclusively to medical, convalescent, or veterinary establishments, (F) products which are labeled to be applied to food-contact surfaces and are not required to be rinsed prior to contact with food, or (G) products which are labeled as "Bathroom and Tile Cleaner," "Glass Cleaner," "General Purpose Cleaner," "Toilet/Urinal Care Product," "Metal Polish or Cleanser," "Carpet Cleaner," or "Fabric Refresher" that may also make disinfecting or antimicrobial claims on the label.

## **Disinfectants**

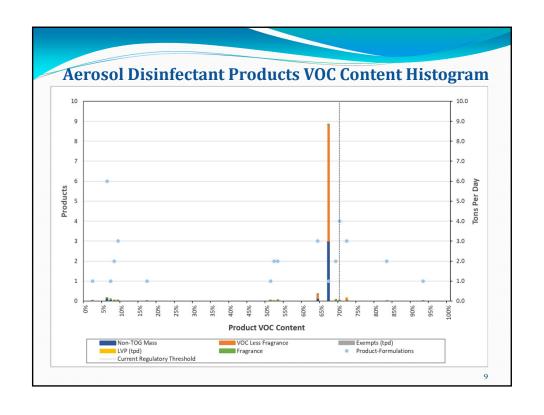
- Regulatory Category
- 2006, two VOC limits depending on product form

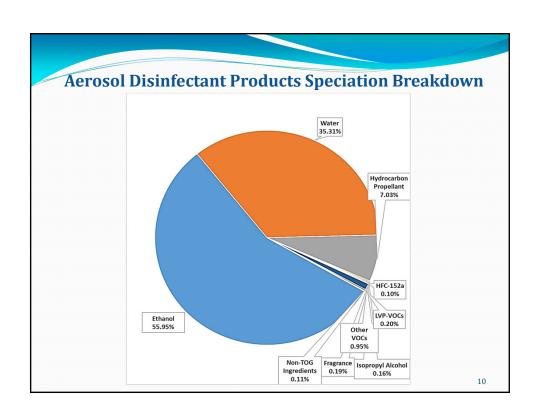
Aerosol 70% by weight
Nonaerosol 1% by weight
Effective 12/31/2008

- The effective date of the VOC standard is one year after specified in the Table of Standards
- Health benefit products
- Must be registered with the U.S. EPA according to FIFRA requirements and by the CA DPR

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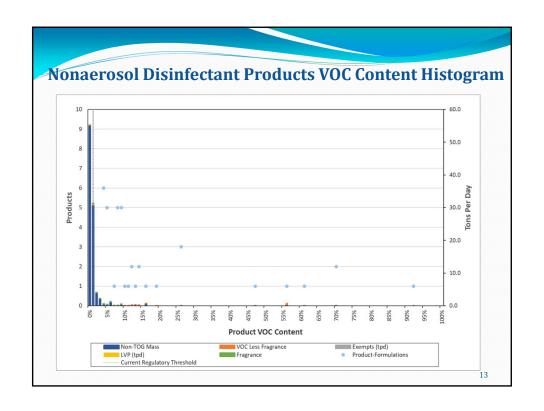
# Aerosol Disinfectant Category Overview Number of Companies • 35 Number of Products • 124 VOC Emissions (tpd) • 6.32 Sales Weighted Average VOC Content • 64.12% PWMIR • 0.99 TOG MIR • 1.54

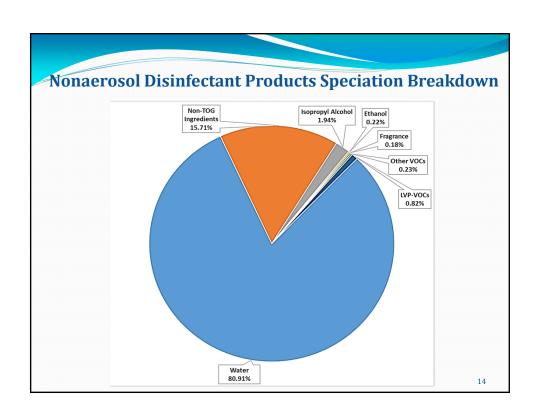




# Possible VOC Limit Possible VOC Limit VOC Tons Per Day Reduced Complying Market Share (Product-Formulations) Complying Market Share (Mass) Complying Market Share (Mass)

Nonaerosol Disir	nfectant Category Overvie	:W
Number of Companies	• 114	
Number of Products	• 1087	
VOC Emissions (tpd)	• 1.09	
Sales Weighted Average VOC Content	• 1.11%	
PWMIR	• 0.02	
TOG MIR	• 1.55	





# Nonaerosol Disinfectant Example VOC Thresholds

Possible VOC Limit	0.50%	0.75%
VOC Tons Per Day Reduced	0.05	0.02
Complying Market Share (Product- Formulations)	52%	56%
Complying Market Share (Mass)	88%	90%

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# **Discussion & Questions**

# Anti-microbial Dry Hand Wash (Hand Sanitizer)

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## **Anti-microbial Dry Hand Wash (Hand Sanitizer)**

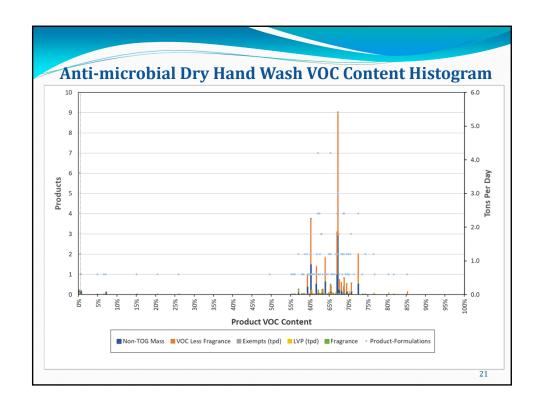
- Currently not a regulated category
- The definition has not been stated in the regulation
- Health benefit products
- Regulated by FDA
- Available as liquids, gels, and foams

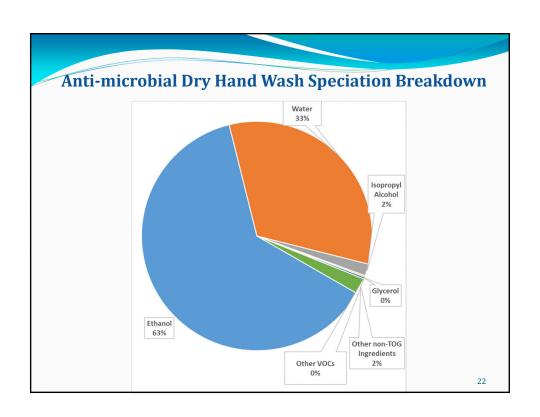
## **Anti-microbial Dry Hand Wash (Hand Sanitizer)**

"Anti-microbial Dry Hand Wash" means a product that is labeled as a "hand sanitizer" for use solely on human hands to reduce infectious microorganisms and not required to be rinsed after application.

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# Anti-microbial Dry Hand Wash (Hand Sanitizer) Category Overview Number of Companies • 106 Number of Products • 1250 VOC Emissions (tpd) • 11.79 Sales Weighted Average voc Content • 64.08% PWMIR • 0.98 TOG MIR • 1.52





# Anti-microbial Dry Hand Wash (Hand Sanitizer) Example VOC Thresholds Possible VOC Limit 60% 63% 65% 67% 70%

VOC Tons Per Day Reduced
Complying Market Share (Product-Formulations)

1.14 0.69 0.44 0.21 0.06
29% 52% 58% 70% 88%

Complying Market Share (Mass) 7% 27% 45% 49% 90%

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# **Discussion & Questions**

# **Anti-microbial Hand or Body Cleaner or Soap**

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# **Anti-microbial Hand or Body Cleaner or Soap**

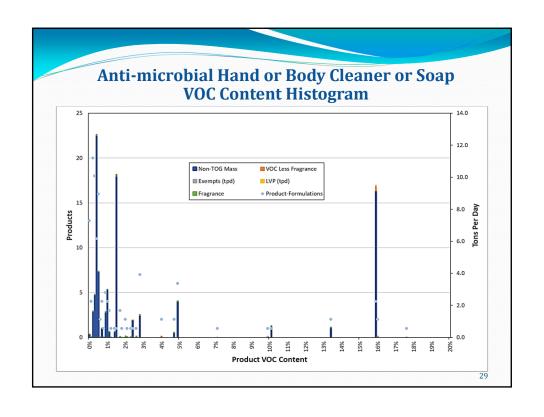
- Currently not regulated category
- The definition has not been stated in the regulation
- Antiseptic FDA Registered OTC Drug
- Available as liquids, gels, and foams

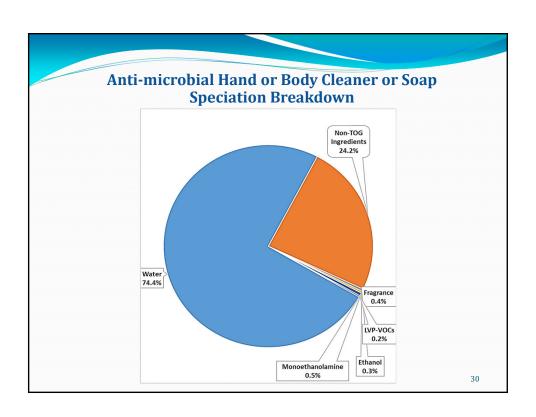
# **Anti-microbial Hand or Body Cleaner or Soap**

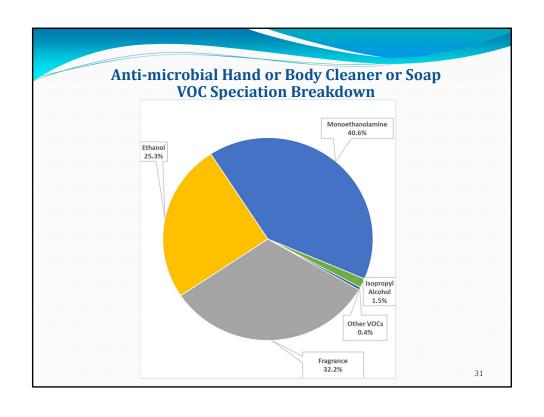
"Anti-microbial Hand or Body Cleaner or Soap" is a cleaning product with added active antimicrobial ingredients added and is required to be rinsed under water after application.

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# Anti-microbial Hand or Body Cleaner or Soap Category Overview Number of Companies • 86 Number of Products • 816 VOC Emissions (tpd) • 0.60 Sales Weighted Average VOC Content • 3.95% PWMIR • 0.06 TOG MIR • 4.83







Anti-microbial Hand or Body Cleaner or Soap Example VOC Thresholds				
Possible VOC Limit	0.50%	0.75%	1.00%	
VOC Tons Per Day Reduced	0.48	0.44	0.41	
Complying Market Share (Product-Formulations)	57%	61%	68%	
Complying Market Share (Mass)	40%	41%	49%	

# **Discussion & Questions**

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# **Rubbing Alcohol**

# **Rubbing Alcohol**

"Rubbing Alcohol" means any product containing isopropyl alcohol (also called isopropanol) or denatured ethanol and labeled for topical use, usually to decrease germs in minor cuts and scrapes, to relieve minor muscle aches, as a rubefacient, and for massage.

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# Rubbing Alcohol Category Overview Number of Companies • 43 Number of Products • 215 VOC Emissions (tpd) • 9.21 Sales Weighted Average VOC Content • 68.17% PWMIR • 0.43 TOG MIR • 0.63

# **Discussion & Questions**

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## What's Next?

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

## 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

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# **Consumer Products Program Contacts**

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Lucy Negrete, Public Work Group Meeting Sign Up

Email: lucy.negrete@arb.ca.gov