

Work Group Meeting for Antiperspirant, Deodorant, Deodorant Body Spray, and Personal Fragrance Product with 20% or less fragrance

June 25, 2019



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Work Group Outline

Category Order: Antiperspirant, Deodorant, Deodorant Body Spray,
Personal Fragrance Product with 20% or less fragrance

For Each Category Presented

- Category Definition
- Category Overview
 - Companies
 - Products
 - VOC Content
 - Product Weighted Maximum Incremental Reactivity (PWMIR)
 - Total Organic Gas Maximum Incremental Reactivity (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:
josh.berghouse@arb.ca.gov**

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Antiperspirant

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Antiperspirant

“Antiperspirant” means any product including, but not limited to, aerosols, roll-ons, sticks, pumps, pads, creams, and squeeze-bottles, that is intended by the manufacturer to be used to reduce perspiration in the human axilla by at least 20 percent in at least 50 percent of a target population.

Regulatory History:

- 2001 Limits:

Aerosol	Nonaerosol
40% HVOC	0% HVOC
0% MVOC	0% MVOC

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Antiperspirant Category Overview

Number of Companies

• 37

Number of Products

• 915

VOC Emissions (tpd)

• 1.7

Category VOC Range

• 0-85%

Sales Weighted
Average VOC

• 7.54%

PWMIR

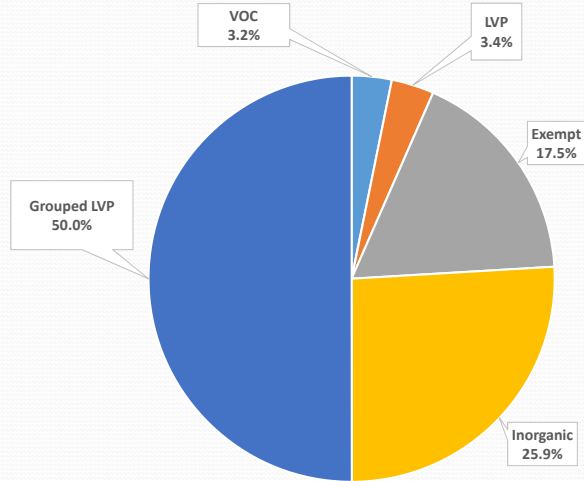
• 0.19

TOG MIR

• 0.63

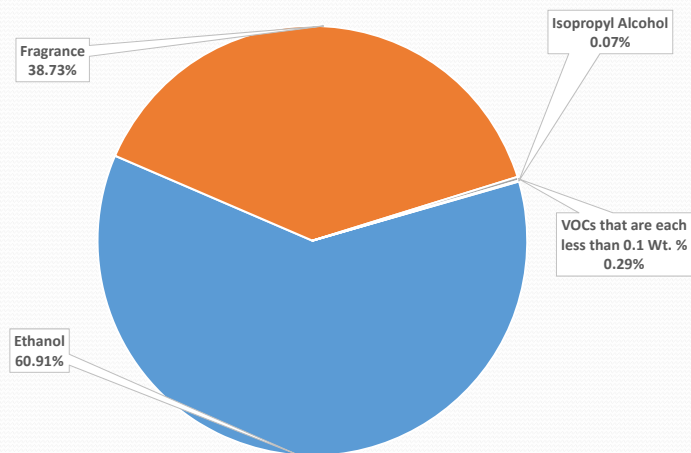
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Nonaerosol Antiperspirant Speciation Breakdown



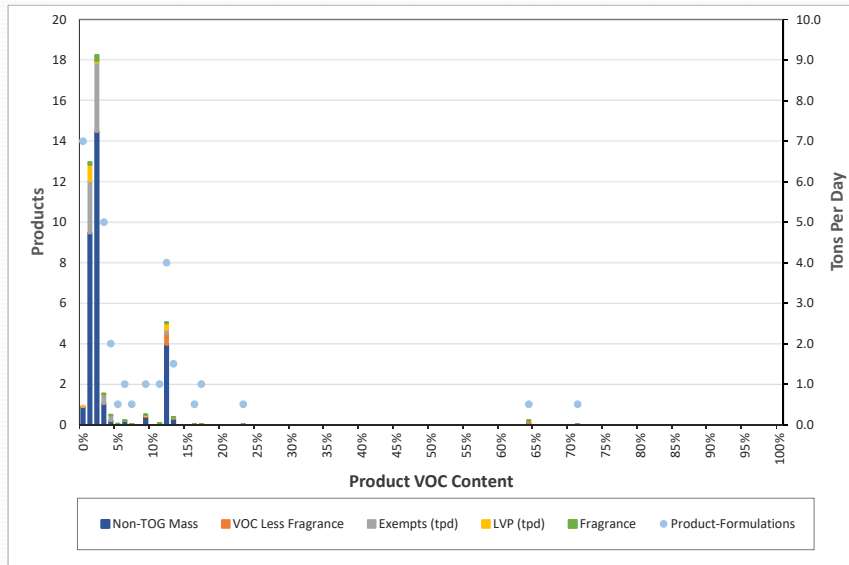
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Nonaerosol Antiperspirant VOC Breakdown



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Nonaerosol AP VOC Content Histogram



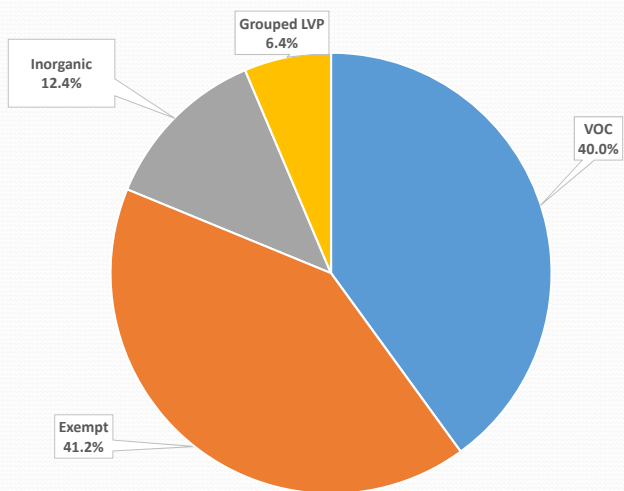
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Nonaerosol Antiperspirant Example VOC Thresholds

Possible VOC Limit	5%	10%	20%
VOC Tons Per Day Reduced	0.25	0.11	0.04
Complying Market Share (Product-Formulations)	84%	88%	98%
Complying Market Share (Mass)	84.3%	86.0%	99.5%

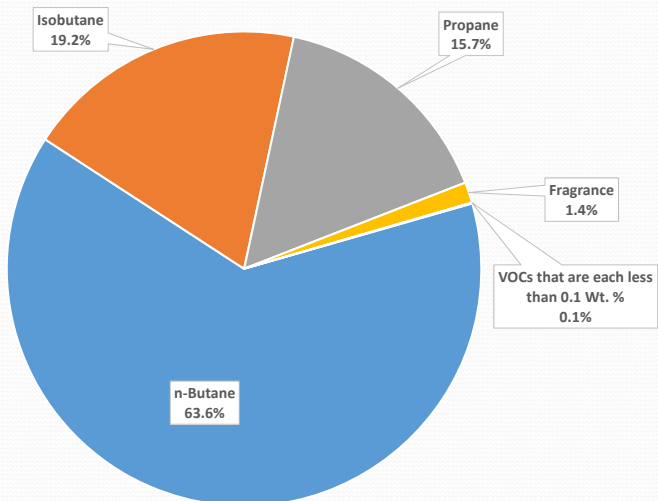
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Aerosol Antiperspirant Speciation Breakdown



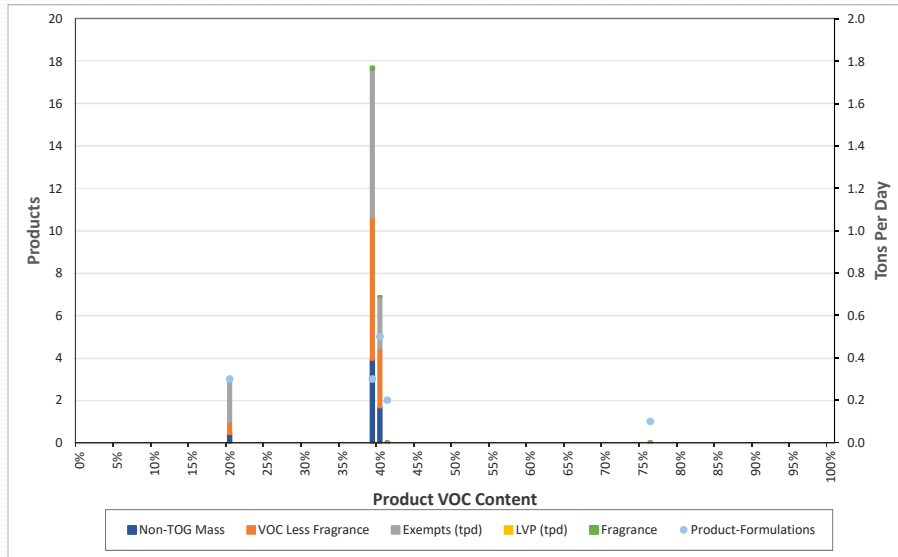
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Aerosol Antiperspirant VOC Breakdown



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Aerosol AP VOC Content Histogram



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Aerosol Antiperspirant Example VOC Thresholds

Possible VOC Limit	35%	30%	25%
VOC Tons Per Day Reduced	0.11	0.23	0.35
Complying Market Share (Product-Formulations)	21%	21%	21%
Complying Market Share (Mass)	11%	11%	11%

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Discussion & Questions

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Deodorant

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Deodorant

“Deodorant” means any product including, but not limited to, aerosol, roll-ons, sticks, pumps, pads, creams, and squeeze-bottles, that indicates or depicts on the container or packaging, or on any sticker or label affixed thereto, that the product can be used on or applied to the human axilla to provide a scent and/or minimize odor.

- 2001 Limits:

Aerosol	Nonaerosol
0% HVOC	0% HVOC
10% MVOC	0% MVOC

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Deodorant Category Overview

Number of Companies

• 89

Number of Products

• 601

VOC Emissions (tpd)

• 0.88

Sales Weighted
Average VOC

• 14.8%

PWMIR

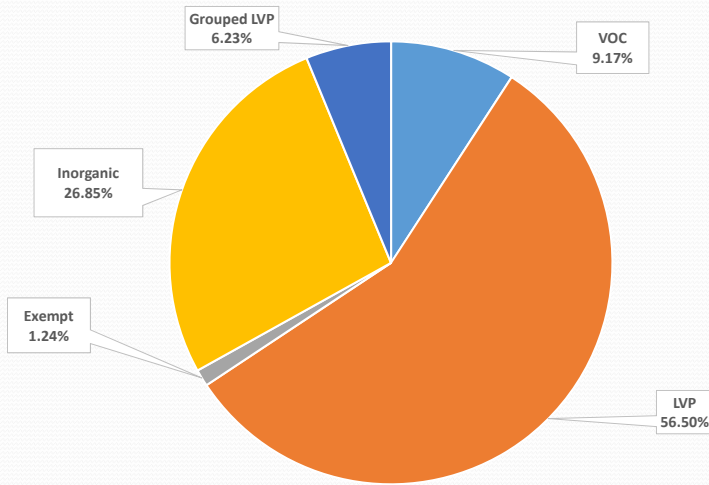
• 1.48

TOG MIR

• 2.22

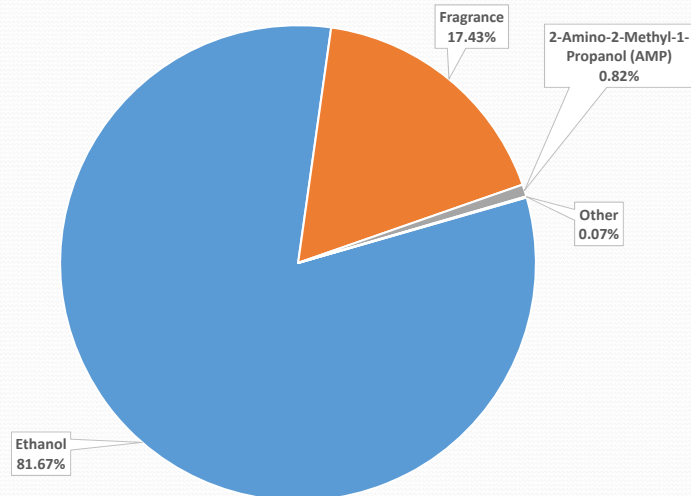
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Nonaerosol Deodorant Speciation Breakdown



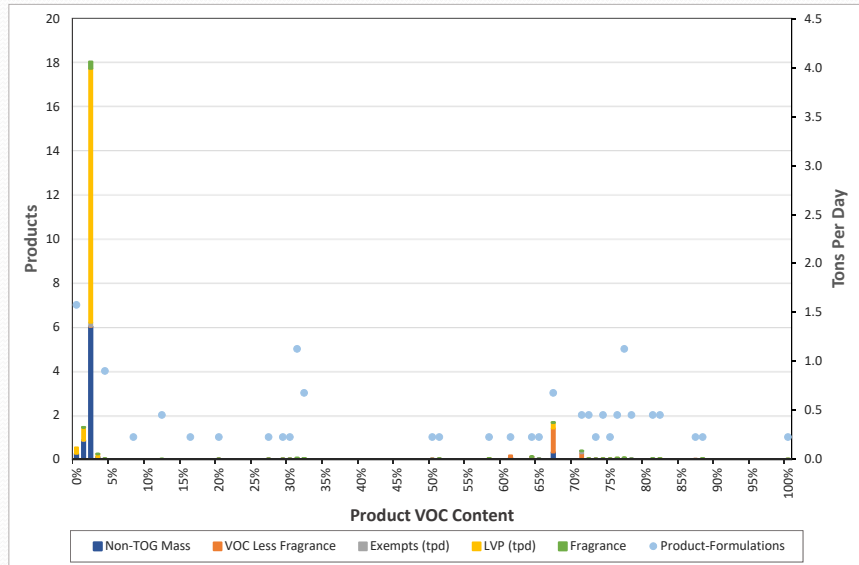
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Nonaerosol Deodorant VOC Breakdown



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Nonaerosol Deodorant VOC Content Histogram



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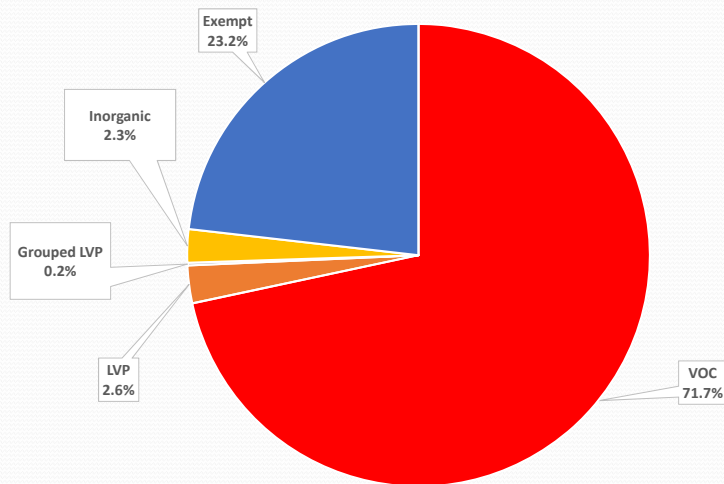
Nonaerosol Deodorant Example VOC Thresholds

Possible VOC Limit	20%	10%	5%
VOC Tons Per Day Reduced	0.27	0.33	0.35
Complying Market Share (Product-Formulations)	76%	74%	74%
Complying Market Share (Mass)	89%	89%	89%

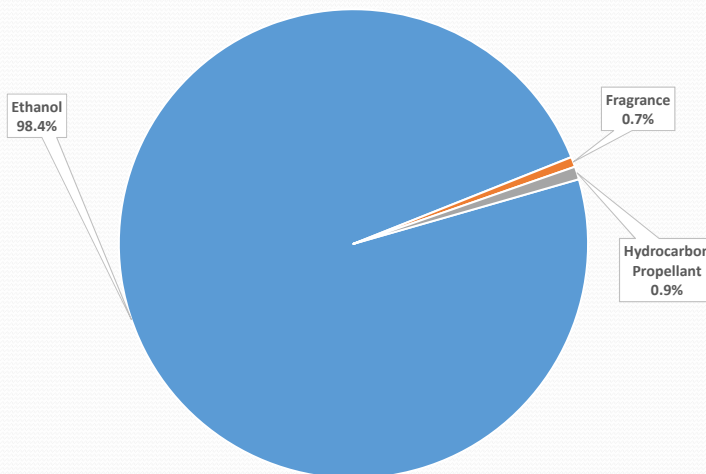
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Discussion & Questions

Aerosol Deodorant Speciation Breakdown

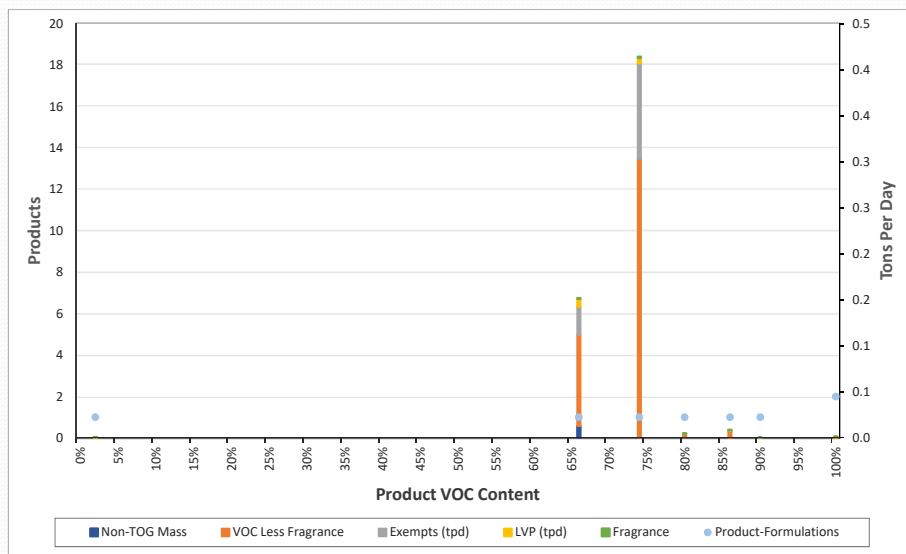


Aerosol Deodorant VOC Breakdown



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Aerosol Deodorant VOC Content Histogram



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Aerosol Deodorant Example VOC Thresholds

Possible VOC Limit	70%	67%	65%
VOC Tons Per Day Reduced	0.02	0.03	0.04
Complying Market Share (Product-Formulations)	25%	25%	13%
Complying Market Share (Mass)	26%	26%	0%

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Discussion & Questions

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Personal Fragrance Product (≤ 20pct Fragrance)

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Personal Fragrance Product

“Personal Fragrance Product” means any product which is applied to the human body or clothing for the primary purpose of adding a scent or masking a malodor, including, but not limited to, cologne, perfume, aftershave, toilet water, lotion, powder, body mist, and body spray. “Personal Fragrance Product” does not include: (A) Deodorant, as defined in section 94501(d); (B) medicated products designed primarily to alleviate fungal or bacterial growth on feet or other areas of the body; (C) mouthwashes, breath fresheners and deodorizers; (D) lotions, moisturizers, powders or other skin care products designed or labeled to be used primarily to alleviate skin conditions such as dryness and irritations; (E) products designed exclusively to be applied to human genitalia areas, undergarments, and any paper products, napkins or other products that are affixed to undergarments, such as sanitary pads; (F) soaps, shampoos, and products primarily used to clean the human body; and (G) fragrance products designed to be used exclusively on nonhuman animals.

- 80% VOC Limit effective in 1995
- 75% VOC Limit effective in 1999

*94510(j): The VOC limits specified in Section 94509(a) shall not apply to any VOC which is a fragrance in a personal fragrance product.

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Personal Fragrance <= 20pct Fragrance Category Overview

Number of Companies

• 130

Number of Products

• 12,765

VOC Emissions (tpd)

• 10.67

Sales Weighted Average VOC

• 75.6%

PWMIR

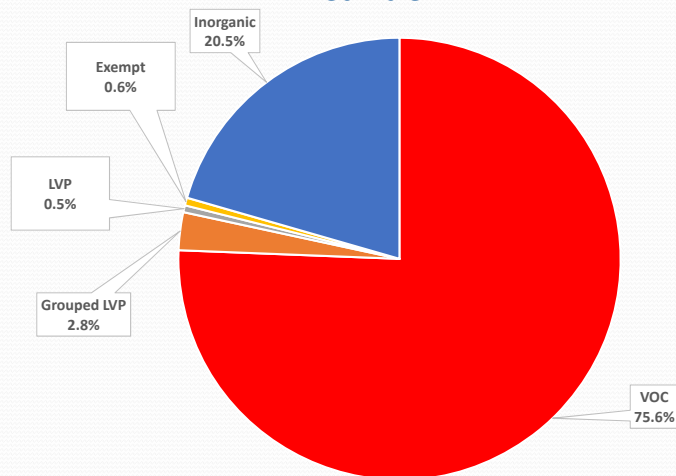
• 1.43

TOG MIR

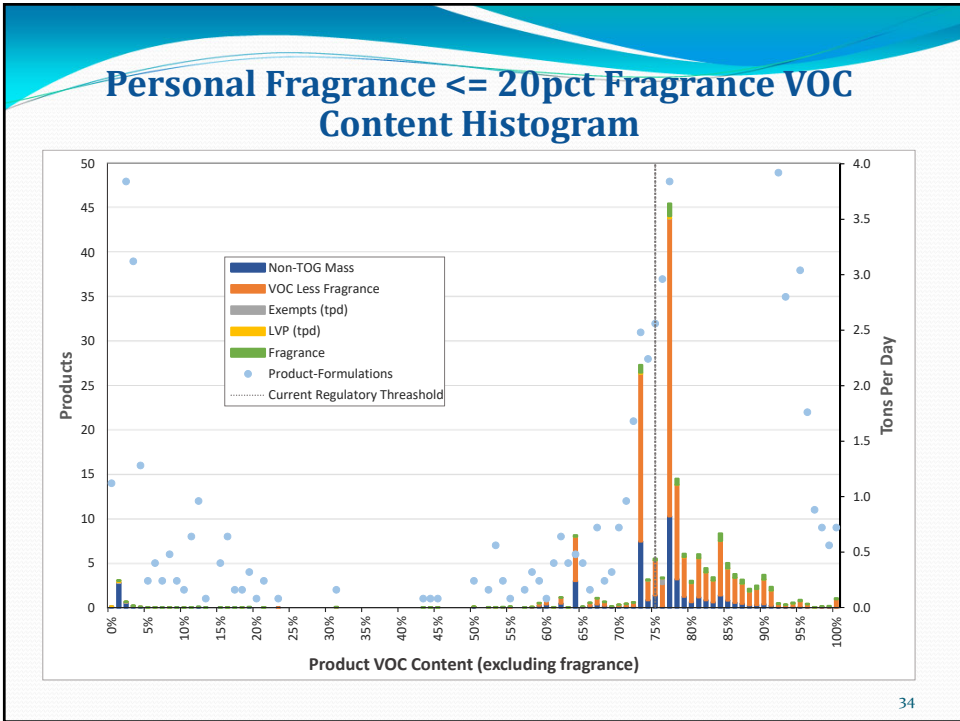
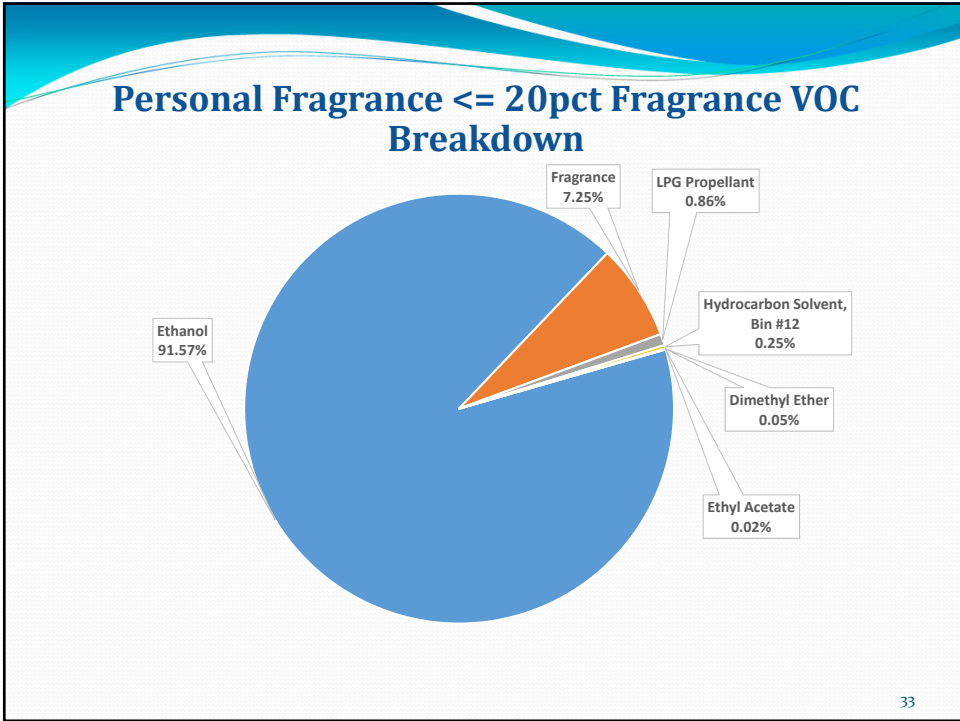
• 1.87

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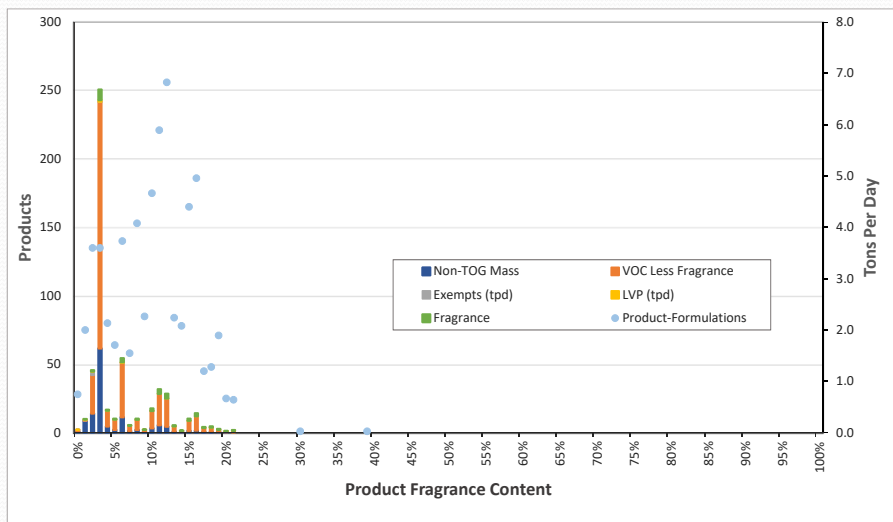
Personal Fragrance <= 20pct Fragrance Speciation Breakdown



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Personal Fragrance <= 20pct Fragrance Product Fragrance Content



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Personal Fragrance <= 20pct Fragrance Example VOC Thresholds

Possible VOC Limit	70%	60%	50%
VOC Tons Per Day Reduced	0.6	1.9	3.3
Complying Market Share (Product-Formulations)	15%	12%	11%
Complying Market Share (Mass)	10%	3%	3%

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Discussion & Questions

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Deodorant Body Spray

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Deodorant Body Spray

“Deodorant Body Spray” means a “Personal Fragrance Product” with 20 percent or less fragrance, that is designed for application all over the human body to provide a scent. A “Deodorant Body Spray” product that indicates or depicts on the container or packaging, or on any sticker or label affixed thereto, that it can be used on or applied to the human axilla, is a “Deodorant” as defined in section 94501(d).

Same VOC limits as Personal Fragrance Products

For <=20% Fragrance

- 80% VOC Limit effective in 1995
- 75% VOC Limit effective in 1999

For >20% Fragrance

- 70% VOC Limit effective in 1995
- 65% VOC Limit effective in 1999

*94510(j): The VOC limits specified in Section 94509(a) shall not apply to any VOC which is a fragrance in a personal fragrance product.

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Deodorant Body Spray Category Overview

Number of Companies

• 27

Number of Products

• 389

VOC Emissions (tpd)

• 1.83

Sales Weighted
Average VOC

• 73.4%

PWMIR

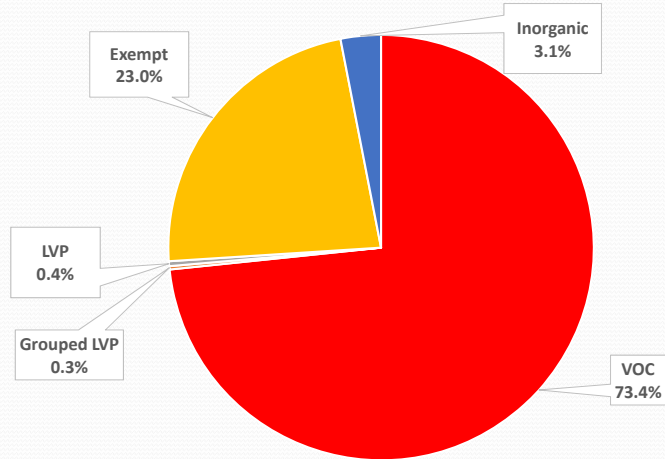
• 1.18

TOG MIR

• 1.21

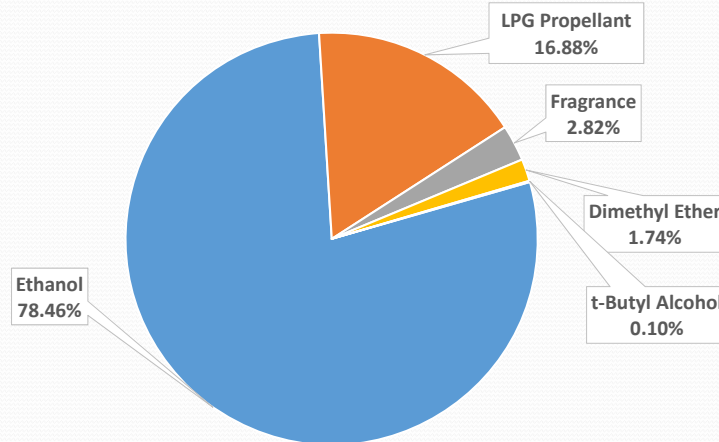
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Deodorant Body Spray Speciation Breakdown



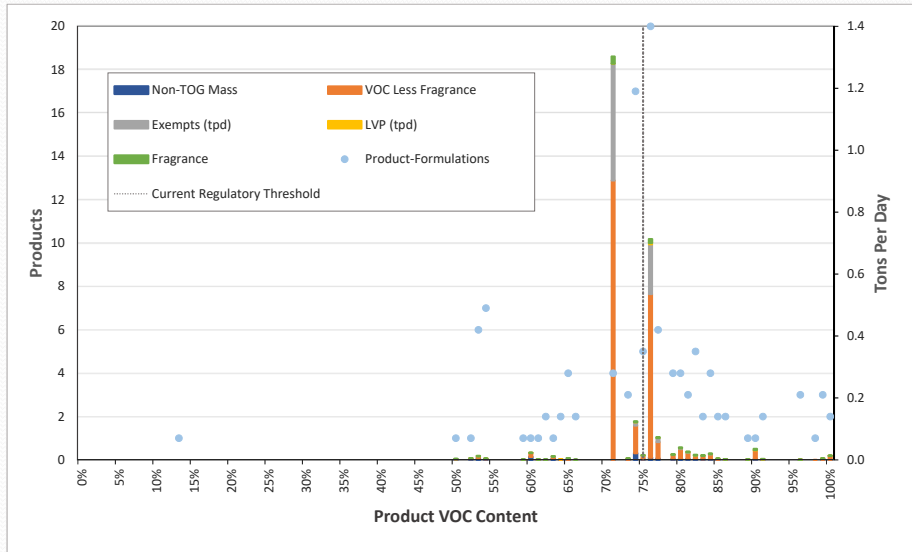
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Deodorant Body Spray VOC Breakdown



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Deodorant Body Spray VOC Content Histogram



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Deodorant Body Spray Example VOC Thresholds

Possible VOC Limit	70%	60%	50%
VOC Tons Per Day Reduced	0.1	0.3	0.5
Complying Market Share (Product-Formulations)	19%	12%	1%
Complying Market Share (Mass)	3%	2%	0%

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Discussion & Questions

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What's Next?

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

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What's Next?

- Summer 2019: Continue topic-specific work groups
- Ongoing: Meet with interested stakeholders
- Fall 2019: Public workshop to identify and quantify emissions benefits of regulatory options
- Late 2019/Early 2020: Additional public workshops as needed
- Late 2020: Proposed regulatory amendments for Board consideration

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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

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