



Public Hearing to Consider Proposed Amendments to the Consumer Product Regulations and Test Method 310

California Air Resources Board Meeting
March 25, 2021

What Are Consumer Products?



Types of products include:

Personal Care Products

Cleaning Products

Antiperspirants and Deodorants

Aerosol Paints

Automotive Maintenance Products

Household Pesticides



Contributions to Air Pollution



Active ingredients



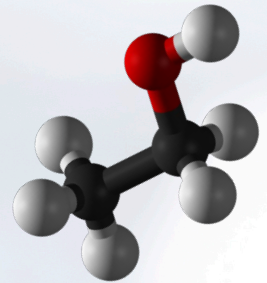
Solvents



Propellants

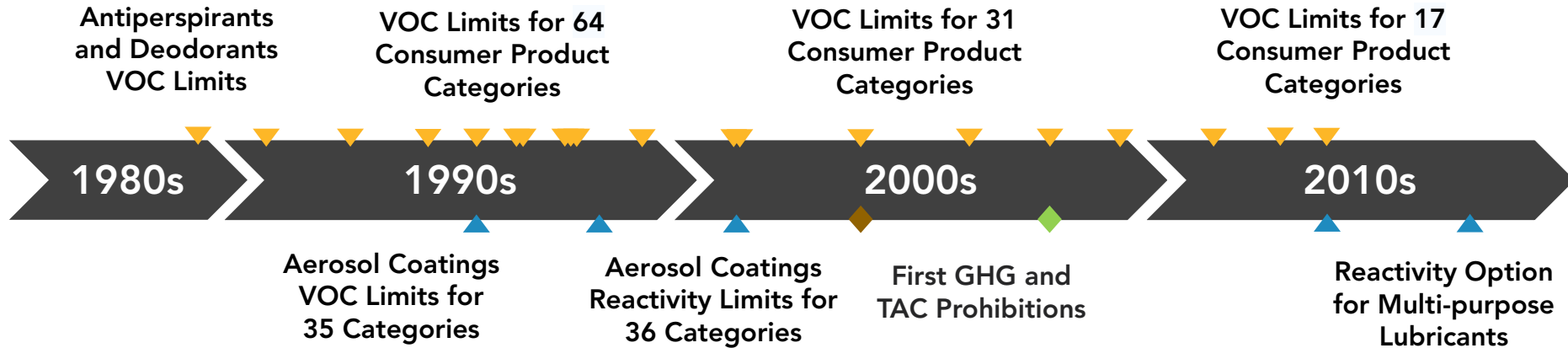


Fragrances

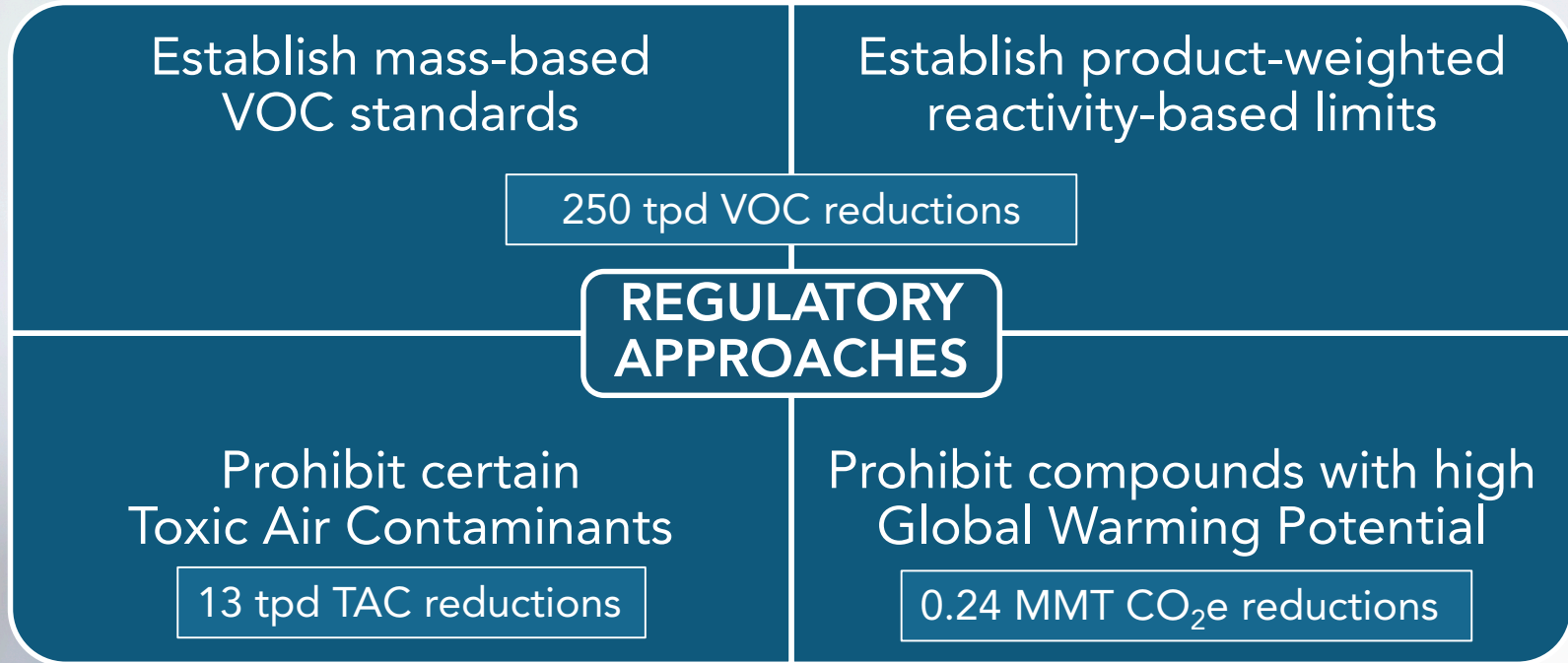


Consumer Product Regulations

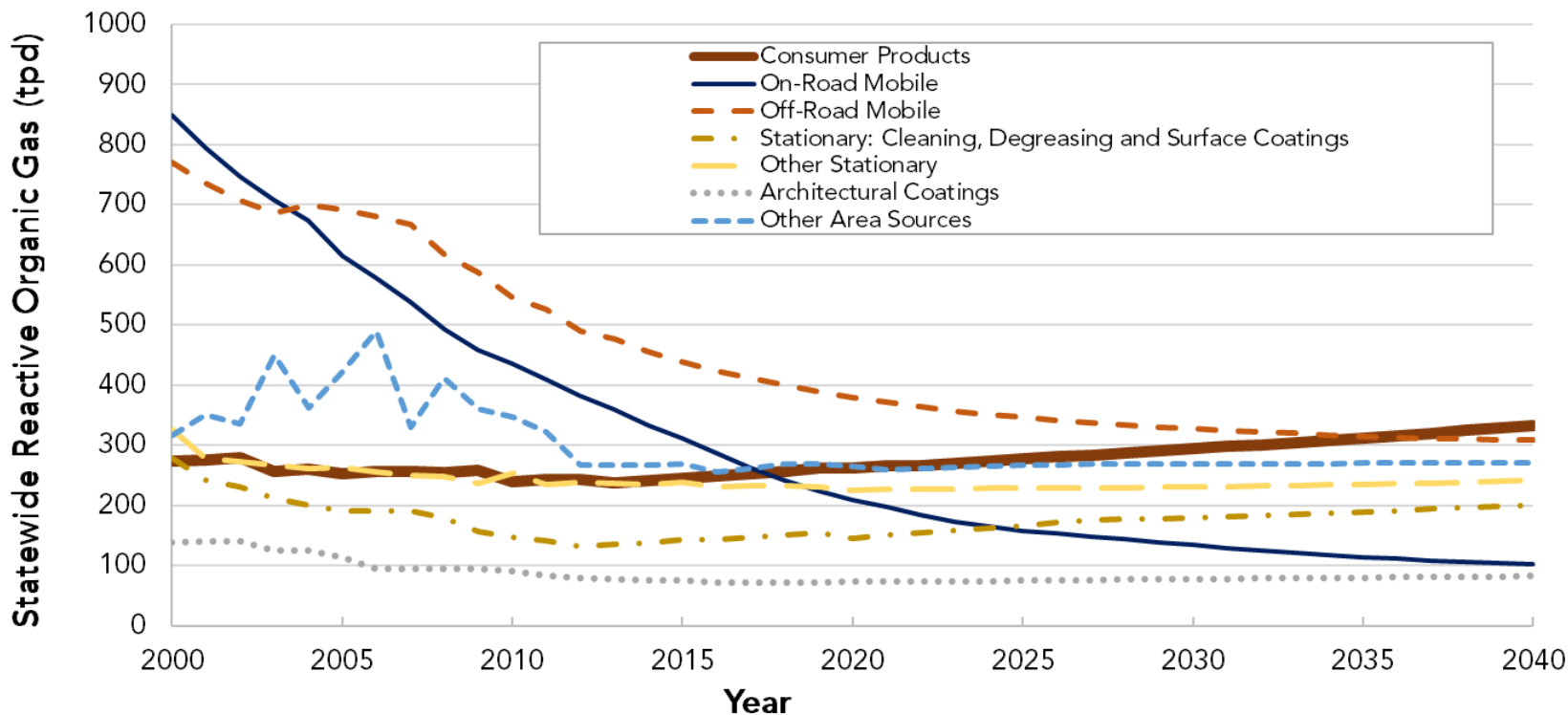
- Over 150 Product Categories Regulated
- 50 Percent Reductions in VOC from Consumer Products



Integrated Regulatory Approach

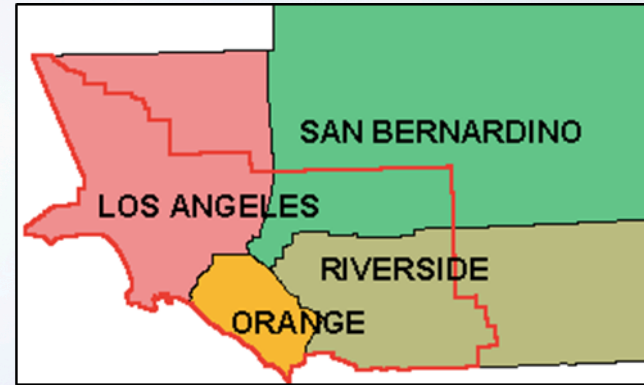


Consumer Product Emissions are Increasing



SIP Commitments

By 2023:
1-2 tpd in South Coast



By 2031:
4-5 tpd in South Coast
8-10 tpd Statewide

2013-2015 Consumer Product Surveys

- 1,500 product manufacturers
- One million products
- 491 consumer product categories



Regulatory Development Process

- Five public workshops
- 22 Topic-specific work group meetings
- Regular meetings with product manufacturers, fragrance formulators, trade organizations, NGOs, and other interested stakeholders

First Public Workshop
(47 Product Categories)

Public Work Group Meetings

Second Public Workshop
(7 Product Categories)

Additional Public Work Group Meetings

Three Additional Public Workshops
(Refine Proposed Amendments)

Board Hearing

2019

2020

2021

Proposed Categories

Category	VOC Emissions (2015 tpd)	Emissions Rank
Personal Fragrance Products	14.84	2
Hair Care Products		
- Hair Finishing Spray		
- Dry Shampoo	12.97	3
- Hair Shine		
- Temporary Hair Color		
Manual Aerosol Air Freshener	4.22	7
Aerosol Crawling Bug Insecticide	1.92	14

Most Recent VOC Standards

Personal Fragrance Products

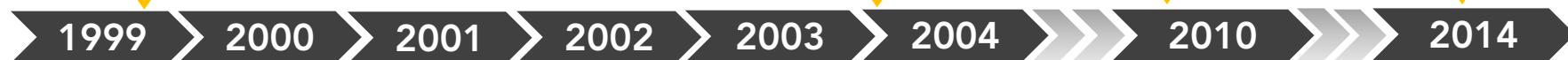
Hair Finishing Spray

Hair Shine

Aerosol Crawling
Bug Insecticide

Temporary
Hair Color

Manual Aerosol
Air Freshener



Manual Aerosol Air Freshener



Staff Proposal

Combine single and double phase aerosol air freshener into Manual Aerosol Air Freshener

- 10% VOC Standard by 2023; 5% VOC Standard by 2027

Create three new aerosol air freshener categories:

- Automatic Aerosol Air Freshener retains 30% standard
- Total Release Air Freshener: 25% VOC standard by 2023
- Concentrated Aerosol Air Freshener:
15% VOC standard by 2023; 10% VOC standard by 2027

VOC Reductions

2023: 1.07 tpd Statewide, 0.45 tpd in South Coast
2031: 1.73 tpd Statewide, 0.72 tpd in South Coast

Hair Care Products



Staff Proposal

Tier 1 (2023 Effective Date):

- 50% VOC standard for Hair Finishing Spray
- 55% VOC standard for Dry Shampoo

Tier 2 (2029 Effective Date):

- 50% VOC standard for Dry Shampoo, Hair Shine, and Temporary Hair Color

VOC standards aligned for these four categories

VOC Reductions

2023: 1.52 tpd Statewide, 0.63 tpd in South Coast

2031: 1.91 tpd Statewide, 0.78 tpd in South Coast

Personal Fragrance Products



Staff Proposal

70% VOC Standard by January 1, 2023 for:

- Aerosol Personal Fragrance Products
- Non-aerosol Personal Fragrance Products with less than or equal to 7% fragrance

50% VOC Standard by January 1, 2031 for:

- Aerosol Personal Fragrance Products
- Non-aerosol Personal Fragrance Products with less than or equal to 10% fragrance

Technology assessment by 2027

VOC Reductions

2023: 0.41 tpd Statewide, 0.17 tpd in South Coast

2031: 5.05 tpd Statewide, 2.07 tpd in South Coast

Aerosol Crawling Bug Insecticide



Staff Proposal

8% VOC standard applicable January 1, 2030

Provides time to meet federal requirements

Aerosol Bed Bug Insecticide
would retain current 15% VOC limit

VOC Reductions

2031: 0.81 tpd Statewide, 0.34 tpd in South Coast

Two Percent Fragrance Exemption



Staff Proposal

Sunset 2% fragrance exemption in 2031, with certain exceptions:

- 0.25% by weight of monoterpene ingredients allowed for Non-Aerosol General Purpose Cleaners/Degreasers in 2023 (GPC/GPD)
- Air Fresheners, Disinfectants, Sanitizers, and non-aerosol GPC/GPD retain 0.25% fragrance exemption in 2031

VOC Reductions

2031: 0.30 tpd Statewide, 0.12 tpd in South Coast

Compressed Gas Propellants



Staff Proposal

Create an innovative pathway to use compressed gas propellants in Hair Finishing Spray, Dry Shampoo, or Personal Fragrance Product categories if certain criteria are met:

- Replace HFC-152a propellant
- No increase in ozone forming potential relative to a representative product

Intended to encourage development of carbon neutral products

Other Proposed Amendments



Ingredient prohibitions in the seven categories proposed for regulation:

- Perchloroethylene, trichloroethylene, methylene chloride, and PCBTF
- Substances with a GWP at or above 150

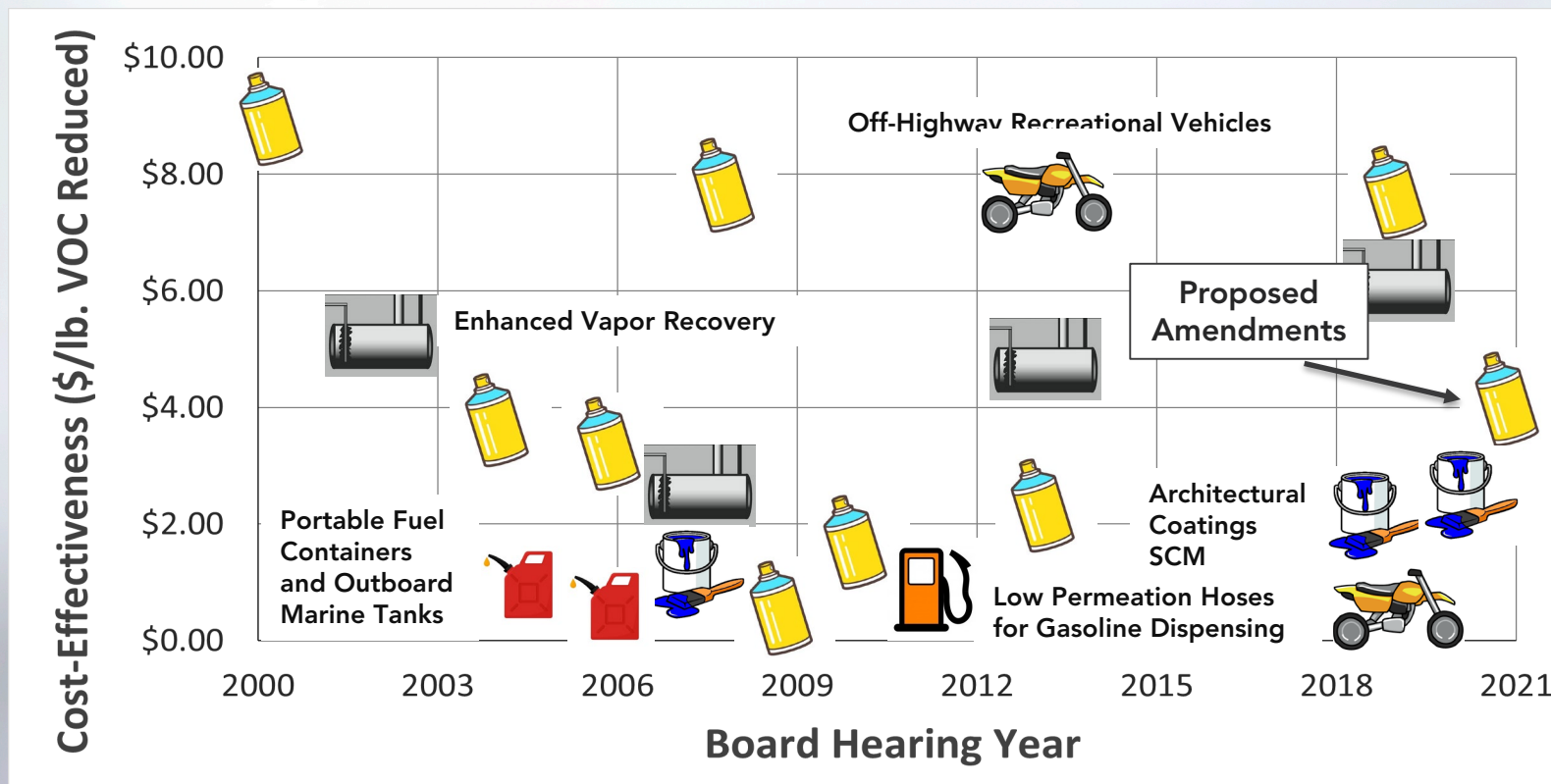
Energized Electrical Cleaner definition update

Addition of three substances to the Table of Maximum Incremental Reactivity Values

Adjustments to Alternative Control Plan and Innovative Product Exemption Eligibility Criteria

Updates to Test Method 310

Cost Effectiveness of CARB VOC Regulations



Regulatory Outcomes



Fulfills SIP commitment to attain federal ozone standard:

- 2023: 3.00 tpd Statewide, 1.25 tpd in South Coast
- 2031: 9.80 tpd Statewide, 4.03 tpd in South Coast

Precludes use of certain toxics and high-GWP GHGs

Proposed Innovative Product Exemption amendments to facilitate phase-out of HFC-152a

15-Day Changes



Add regulatory definition for monoterpene

Other minor modifications and clarifications

Staff's Recommendation

Approve the Resolution approving for adoption
the Proposed Amendments
to the Consumer Product Regulations
and Test Method 310 and 15-day changes