

A photograph of a field of yellow flowers, possibly sunflowers, under a clear blue sky. A utility pole is visible in the background on the left side. The text is overlaid on the image.

***Proposed Amendments to the
California Consumer Products
Regulation and the Aerosol
Coatings Regulation***

November 17, 2006

Presentation Overview

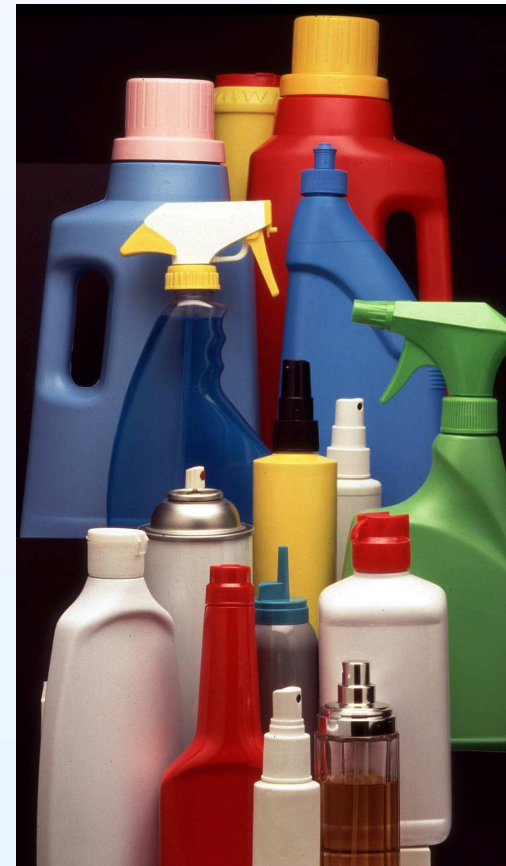
- Background and Overview
- Proposed Amendments
- Overall Impacts of Proposal
- Comments
- Proposed Modifications
- Recommendation

Background and Overview



State Law Defines Consumer Products

- Chemically formulated products
- Used by household and institutional consumers
- Includes personal care, automotive care, and household care products



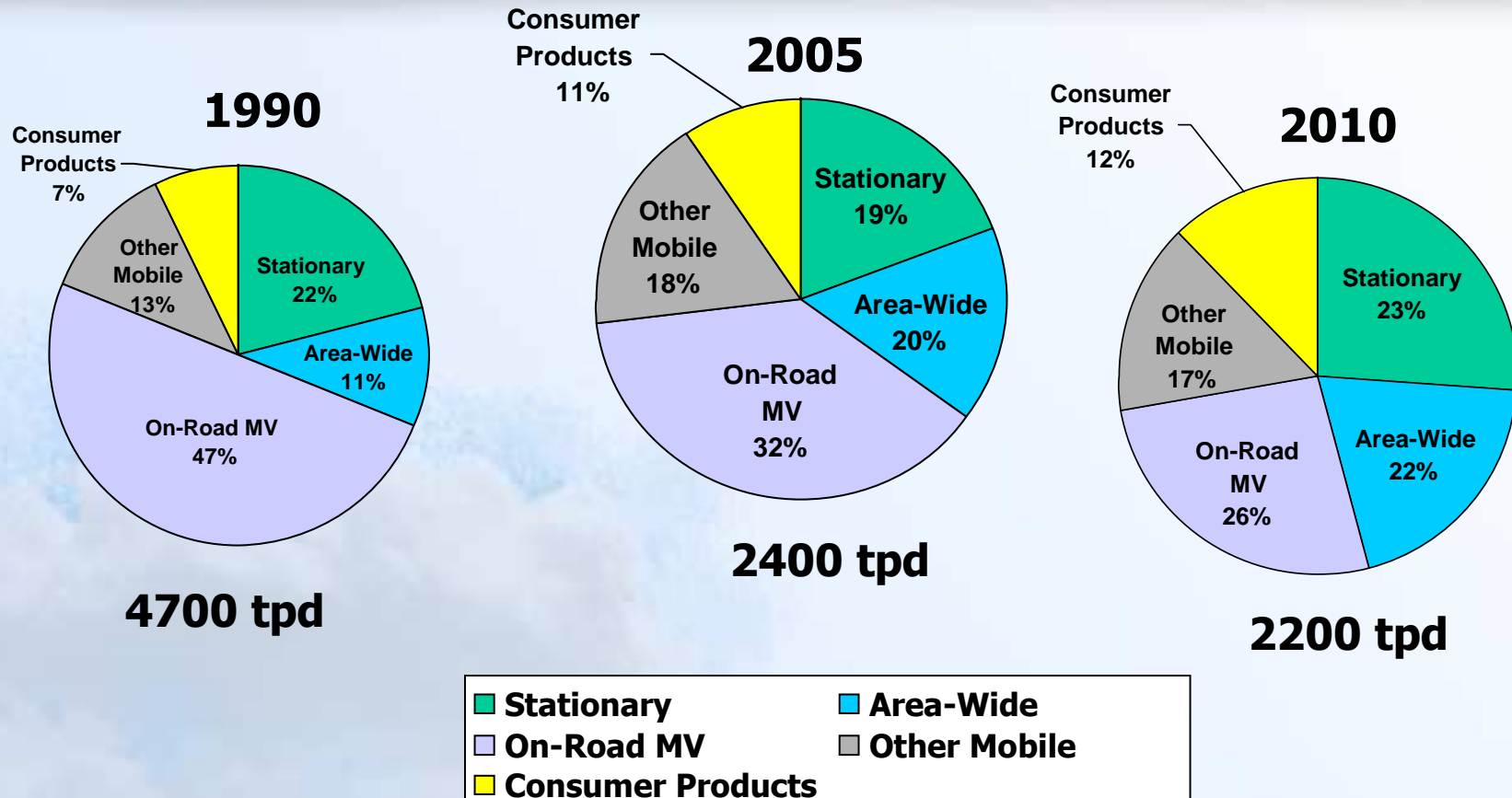
State Law Mandates Control of Consumer Products with Limitations

- Achieve maximum feasible reduction in VOCs
- Technologically and commercially feasible regulations
- Preserve product forms
- Consult with public health experts on health benefit products

Existing Regulations

- Five regulations adopted since 1989
- 112 product categories regulated
- 170 tons per day emission reductions
- Regulated category emissions reduced 50%
- Some toxic air contaminants prohibited

Statewide VOC Emissions: 1990-2010



Source: 2006 ARB Almanac, Annual Average Statewide VOC Emissions

Consumer Products are a Significant VOC Emission Category

Currently

- 2nd largest in SCAQMD
- 6th largest in SJVAPCD

2023

- 1st largest in SCAQMD
- 3rd largest in SJVAPCD

Proposed Amendments



VOC Limit Development

- 250 product categories
- 26,000 products surveyed
- Created database
 - Analyzed surveys
 - Entered data
 - Quality control

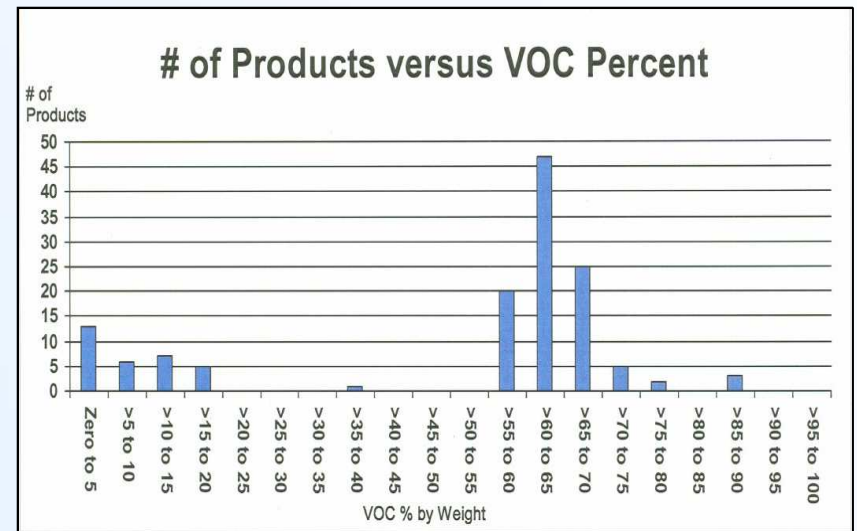
VOC Limit Development *(cont.)*

- Data analysis
 - Assessed VOC emissions per category
 - Analyzed product labels
 - Patent, literature, and technology reviews
 - 50 categories evaluated for regulation
 - 15 categories proposed for regulation

VOC Limit Development *(cont.)*

Factors Considered for Proposed Limits

- VOC distribution
- Types of products and product forms
- Average VOC content
- Complying market share
- Number of complying products
- Technology transfer
- Patent limitations
- Health benefit
- Potential use of TACs to reformulate



Automotive Cleaning and General Degreasing Research

- ARB sponsored research
- Transfer of water-based technology used in parts washers to aerosol form
- Categories:
 - Brake Cleaners
 - Carburetor or Fuel-Injection Air Intake Cleaners
 - Engine Degreasers
 - General Purpose Degreasers
- Results approved by Research Screening Committee

Proposed Amendments

- New VOC limits for 15 categories
- Clarify definitions
- Clarify overlapping requirements
- Prohibit toxics in 4 categories
- Adjust VOC limit for Nail Polish Removers
- Exempt certain Electronic Cleaners

Categories with New Proposed VOC Limits

Product Category	Proposed VOC Limit (wt%)	Effective Date
Automotive Care Products		
Automotive Windshield Washer Fluid Type "A" Areas	25	12/31/2008
Brake Cleaner	10	12/31/2008
Carburetor or Fuel-Injection Air Intake Cleaner	10	12/31/2008
Engine Degreaser	10	12/31/2008
Cleaners, Degreasers/Disinfectants		
Bathroom and Tile Cleaner Non-aerosol	1	12/31/2008
Oven Cleaner Non-aerosol	1	12/31/2008

Categories with New Proposed VOC Limits *(cont.)*

Product Category	Proposed VOC Limit (wt%)	Effective Date
Cleaners, Degreasers/ Disinfectants <i>(cont.)</i>		
Disinfectant		
Aerosol	70	12/31/2008
Non-Aerosol	1	12/31/2008
General Purpose Cleaner		
Aerosol	8	12/31/2008
General Purpose Degreaser		
Aerosol	10	12/31/2008
Sanitizer		
Aerosol	70	12/31/2008
Non-aerosol	1	12/31/2008

Categories with New Proposed VOC Limits *(cont.)*

Product Category	Proposed VOC Limit (wt%)	Effective Date
Adhesives		
Construction, Panel, and Floor Covering Adhesive	7	12/31/2008
Fabric Care Product		
Laundry Starch/Sizing/Fabric Finish Product	4.5	12/31/2008
Personal Care Product		
Temporary Hair Color Aerosol	55	12/31/2010

Categories with New Proposed VOC Limits *(cont.)*

Product Category	Proposed VOC Limit (wt%)	Effective Date
Waxes & Polishes		
Furniture Maintenance Product: Non-Aerosol	3	12/31/2008
Floor Polish or Wax		
Resilient flooring material	1	12/31/2010
Non-resilient flooring material	1	12/31/2010

Prohibit Use of Chlorinated Toxic Air Contaminants

- Methylene Chloride, Perchloroethylene, and Trichloroethylene
 - Bathroom and Tile Cleaners
 - Construction, Panel, Floor Covering Adhesives
 - General Purpose Cleaners
 - Oven Cleaners

Overall Impacts of Proposal



Emissions Reductions

	VOC (tpd) 2012
Statewide	11.7
South Coast Air Basin	5.0
San Joaquin Valley Air Basin	1.2
Remaining Air Districts	5.5

Environmental Impacts

- Prevents toxics increase
- No significant adverse impacts
- Efficacy of health benefit products maintained

Economic Impacts

- Average \$2.35 per pound VOC reduced
- Estimated average cost to produce is \$0.06 per unit
- Compares favorably with other consumer products regulations

Comments



Comments

- Numerous comments received
- 10% VOC limits for Automotive Cleaning and General Degreasing are not feasible by 12/31/2008
- Definition changes to Rubber and Vinyl Protectants
- Floor Polish or Wax subcategories
- Electronic Cleaner subcategory
- Disinfectant and Sanitizers exclusion

Proposed Modifications



Proposed 15-day Changes

- Automotive Cleaning and General Purpose Degreasing Categories
- Rubber/Vinyl Protectants
- Disinfectants and Sanitizers
- Electronic Cleaners

Automotive Care Products

	Proposed VOC Limit (wt%)	Effective Date
Brake Cleaners, Carburetor and Fuel-Injection Air Intake Cleaners, General Purpose Degreasers	20	12/31/2008
	10	12/31/2012
Engine Degreasers	10	12/31/2010

Summary

- 11.7 tons per day VOC reductions statewide
- Technologically and commercially feasible
- Product forms preserved
- Cost effective
- Prohibits exposure to toxic air contaminants

Recommendation

- Adopt staff's proposed amendments and modifications