



Proposed Amendments to the California Consumer Products Regulations

November 18, 2010



California Environmental Protection Agency

Air Resources Board

Presentation Overview

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- Background
- Proposed amendments
- Impacts
- Suggested modifications
- Recommendation
- Green chemistry update





Background

What Are Consumer Products?

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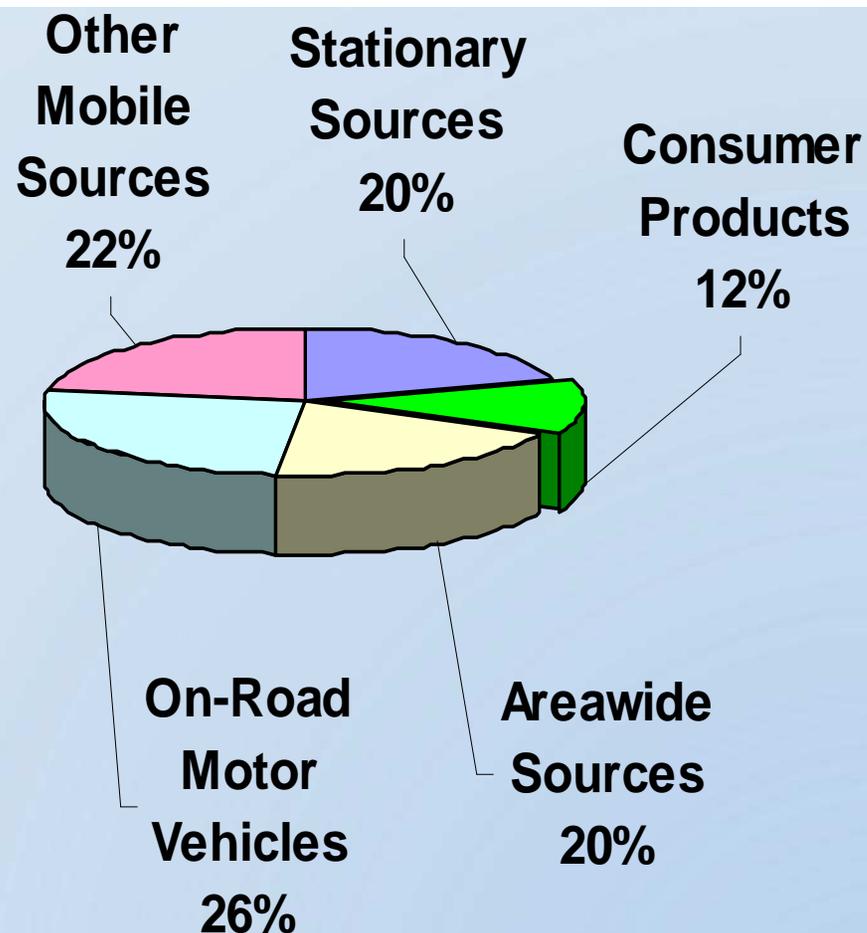
- Chemically formulated
- Used by household and institutional consumers
- Types of products include:
 - Cleaning Products
 - Aerosol Paints
 - Air Fresheners
 - Pesticides
 - Personal Care Products
 - Automotive Specialty Products



Important Source of VOCs

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- **Consumer Products:**
 - VOC emissions are about 244 tons per day*
 - 12 percent of statewide inventory



* 2010 State Statewide VOC Emissions: 2,127 tons per day

Consumer Products: Part of Ozone Control Strategy

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- Health and Safety Code* requires ARB to achieve maximum feasible reduction in VOCs
 - Technologically and commercially feasible limits
 - Limits cannot eliminate a product form
- VOC reductions are important part of the 2007 State Implementation Plan (SIP)

* Health and Safety Code section 41712

On Track to Meet SIP Target

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Consumer Products Rulemaking	VOC Reductions (tons per day)
June 2008 Amendments	4.5
September 2009 Amendments	14.7
Proposed 2010 Amendments (Today's proposal)	6.7*
Additional Reductions Needed (amendments planned for 2011)	~ 4 - 14
Totals Reductions before January 1, 2014	30 – 40

* Proposed amendments result in VOC reductions of 6.7 tons per day for the SIP, but ultimately lead to reductions of 6.9 tons per day when fully effective.



Proposed Amendments

Public Process

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- Surveys guide feasibility of proposed amendments
- Three public workshops
- Numerous individual meetings and teleconferences
- Consultations with other agencies
 - Office of Environmental Health Hazard Assessment
 - State Water Resources Control Board
 - Department of Public Health

Overview of Amendments

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- New or lower VOC limits for 11 categories
- Prohibitions on use of chemicals of concern in specific categories
- New and modified definitions
- Clarifications / streamlining of existing provisions
- Test Method 310 amendments

Proposed Categories and VOC Limits

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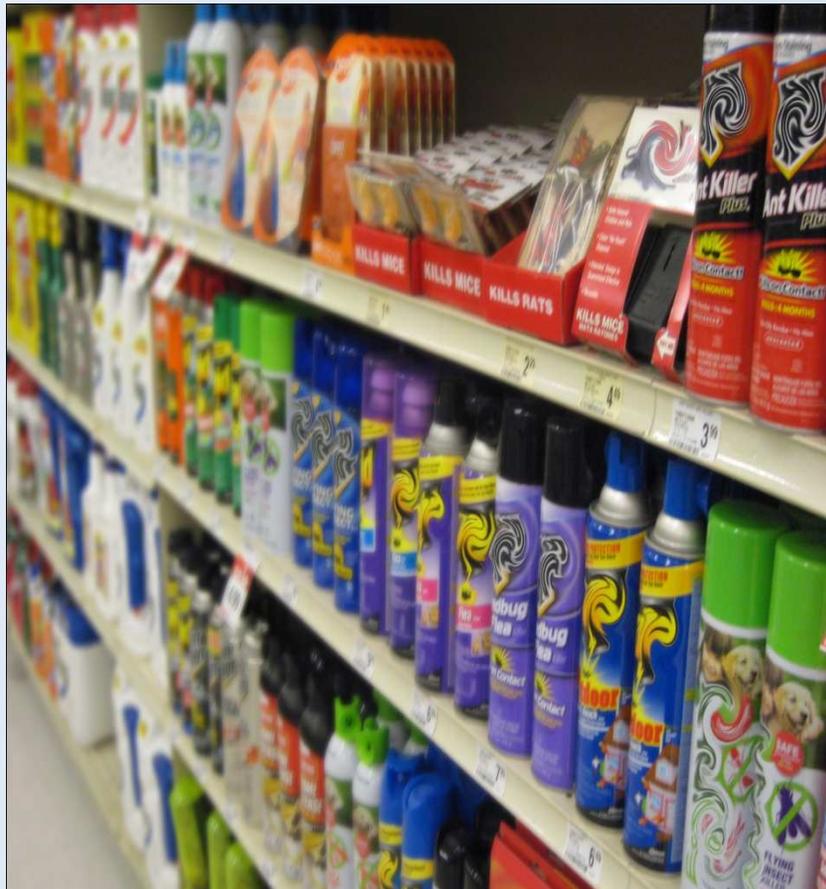
Product Category	Proposed VOC Limit (weight percent) *	VOC Reduction (tons per day)
Flying Bug Insecticide (aerosol)	20	0.06
Furniture Maintenance Product (aerosol)	12	0.36
General Purpose Cleaner (nonaerosol)	0.5	3.73
General Purpose Degreaser (nonaerosol)	0.5	1.17
Glass Cleaner (nonaerosol)	3	0.41
Heavy-duty Hand Cleaner or Soap (nonaerosol)	1	0.53
Metal Polish or Cleanser aerosol	15	0.07
nonaerosol	3	0.15

* Limits proposed to be effective by 12/31/2012, or 12/31/2013, depending on category.

Proposed Categories and VOC Limits (cont.)

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Product Category	Proposed VOC Limit (weight percent) *	VOC Reduction (tons per day)
Oven or Grill Cleaner aerosol	8	> 0.0
nonaerosol	4	- 0.12
Special-purpose Lubricant aerosol	25	0.10
nonaerosol	3	0.13
Spot Remover (Dry Clean-Only) aerosol	15	> 0
nonaerosol	3	0.17
Wasp or Hornet Insecticide (aerosol)	10	0.14
Total VOC reduction from proposal		6.9



Background on Key Amendments

Oven or Grill Cleaners

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- Expand existing 'Oven Cleaner' category to include additional products
- Raise VOC limit from 1 to 4 percent for nonaerosol products
- Emissions increase of 0.1 tons per day is made-up through other amendments
- Rationale: allows use of new noncaustic technologies

Spot Removers

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- Add products used for dry clean-only fabrics
 - Extend effective date for category
 - Delays VOC reduction of about 0.25 tons per day
- Rationale:
 - Prohibits use of toxic chlorinated solvents
 - Alternatives available

Proposed Mitigation Measures

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- For applicable categories, prohibit:
 - Methylene chloride, perchloroethylene, and trichloroethylene
 - Compounds with global warming potential values at or above 150
 - Alkylphenol ethoxylate surfactants
- Rationale:
 - Address health/environmental impacts
 - Address CEQA requirements



Impacts

Economic Impacts

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- Highly cost-effective
 - \$0.98 per pound of VOC reduced
- Average increased cost per product is 6 cents
- Statewide cost to comply is about \$5 million per year

Environmental Impacts

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- VOC reduction of 6.9 tons per day
 - Contributes towards reducing ground-level ozone concentrations
- Co-benefits of proposal:
 - Prevents potential exposure to carcinogens
 - Minimizes potential climate change impacts
 - Provides protection to aquatic species
- No significant adverse impacts

Suggested Modifications

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- Reorganize Special-purpose Lubricants
 - Effective date for aerosol products 12/31/2013
 - VOC limit for aerosol Anti-seize 40% by weight
 - Evaluate need to exempt nonflammable products
- Maintain provisions for certain Disinfectant/Sanitizers and Penetrant products

Ongoing Activities

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- Compliance assistance
 - Advisories to facilitate implementation
- 2011 consumer products survey
- Anticipate proposal in late 2011 to meet remaining SIP commitment

Recommendation

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- Staff recommends adopting the proposed amendments with the modifications suggested today





Green Chemistry Update

Objective: Use of Safer Alternatives

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- Enabling legislation
 - Safer consumer products alternatives process:
AB 1879 (Feuer)
 - Toxics information clearinghouse:
SB 509 (Simitian)
- Department of Toxic Substances Control to adopt process regulations by January 2011
- Facilitates transition to safer alternatives

Regulations Development

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- 2008-2010 numerous workshops
- 2010 milestones:
 - September - proposed regulations released
 - October - California Environmental Policy Council findings
 - November - Department of Toxic Substances Control hearing
 - November/December - Office of Environmental Health Hazard Assessment to release proposed hazard traits

Safer Alternatives for Consumer Products Regulations Overview

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- Chemical of Concern List
- Priority Product List
- Mitigation strategies developed
- Regulatory responses

Collaborative Rulemaking Process

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- Complements ARB's program
- Overlap avoided by collaboration
- Coordination to continue

Green Chemistry Update

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