

Public Workshop

**Proposed Amendments to the  
Consumer Products  
Regulation**

August 4, 2009

 *California Environmental Protection Agency*  
**Air Resources Board**

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**Overview**

- Background
- Proposed Amendments
  - Regulatory Timeline
  - Definitions
  - VOC Standards
  - Other Proposals
  - Toxics Prohibition
  - Remaining Issues
- Ongoing Activities
- Next Steps



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## **Background**

- California Clean Air Act requires ARB to regulate consumer products
- Achieve the maximum feasible reduction in volatile organic compounds from consumer products
- Regulations must be technologically and commercially feasible
- Must not eliminate a product form
- Fulfill SIP commitments

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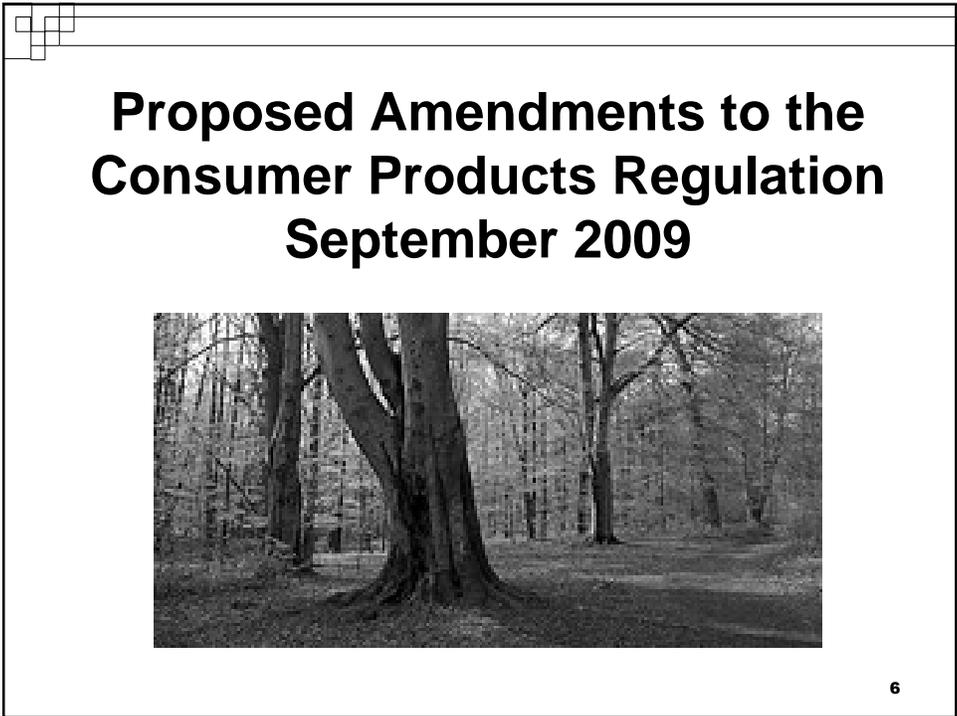
## **State Implementation Plan (SIP or State Strategy)**

- 2007 SIP committed consumer products to 30-40 tpd VOC reductions
- Reductions to be achieved through several rulemakings
- Explore innovative reduction strategies

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<b>State Implementation Plan (SIP or State Strategy)</b>	
<b>Consumer Products Rulemaking</b>	<b>VOC Reductions (tons per day)</b>
June 2008 Amendments	4.5
September 2009 Amendments	14.7
2010 Cleaning Products Amendments	5 – 8
Additional Reductions from 2006 Survey Product Categories	5.8 – 12.8
<b>Total Reductions by January 1, 2014</b>	<b>30 – 40</b>

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## Regulatory Timeline



First Public Workshop.....April 1, 2009  
Second Public Workshop.....August 4, 2009  
Staff Report Released.....August 7, 2009  
Board Hearing in  
Diamond Bar, CA.....September 24 – 25, 2009

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## Proposed Amendments

- New & Modified Definitions
- VOC Limits
- Method 310 Amendments
- Other Regulatory Proposals
  - Global Warming Potential limit in all 3 categories
  - Special labeling and reporting requirements for Multi-purpose Solvents and Paint Thinners
  - Limit of 1% by weight for aromatic compounds in final formulation of Solvents and Thinners
  - Toxics prohibitions in Solvents and Thinners
  - Clarifying language

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## Proposed New Category Definitions

- Aromatic Compound
- Artist's Solvent/Thinner
- High-Temperature Coating
- Industrial Maintenance Coating
- Paint Clean-up
- Zinc-Rich Primer



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## Proposed Modified Category Definitions

- Multi-purpose Solvent
- Paint Thinner
- Automotive  
Windshield Washer  
Fluid



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## Evaluation Process

- Survey data
- Range of VOC content reported
- Product forms
- Technology transfer
- Recent research
- Non-VOC substitutions
- Dialogue with stakeholders
- Patent and literature searches



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## Proposed Categories and VOC Standards

Product Category	Proposed VOC Limit (wt%)	Effective Date
<b>Air Care</b>		
Air Fresheners: Double Phase Aerosols	20	12/31/2012
<b>Miscellaneous</b>		
Multi-purpose Solvent Paint Thinner	Tier 1: 30 Tier 2: 3	12/31/2010 12/31/2013

Total VOC Reductions: 14.7+ tpd VOC by 2013

\*Note: SCAQMD Rule 1143 reductions excluded

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## **Other Regulatory Proposals**

- Clarifying Language to Automotive Windshield Washer Fluid Definition
  
- Method 310
  - Analytical methods for products with high water content or low VOC content
  - VOC content calculations

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## **Other Regulatory Proposals (cont.)**

- Labeling Requirement for Multi-purpose Solvents and Paint Thinners
  - Requirements to address flammable products
  - VOC content labeling
- Special Reporting Requirements for Solvents and Thinners
  - To evaluate progress in developing low VOC products
  - June 30, 2012

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## Other Regulatory Proposals (cont.)

- 1% Limit for Aromatic Compounds in Multi-purpose Solvents and Paint Thinners
  - Mitigates potential to use highly reactive compounds
  - Effective Dec. 31, 2010
- Global Warming Potential (GWP) Limit for all 3 Categories
  - Prohibiting chemical compounds with GWP value of 150 or greater

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## Other Regulatory Proposals (cont.)

- Proposed New Subsection 94509(u):
  - Prohibits perchloroethylene, methylene chloride, and trichloroethylene
- Prohibition Applicability:
  - Multi-purpose Solvent
  - Paint Thinner



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## **Other Regulatory Proposals (cont.)**

- Proposed Exemption of Artist's Solvent/Thinner Sold in Containers of 32 fl. oz. or Less
- Proposed Temporary Exemption of Small Size Paint Thinners Sold in Containers of 8 fl. oz. or Less
  - From 12/31/2010 to 12/31/2013

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## **Remaining Issues**

- Effective Dates for Multi-purpose Solvent and Paint Thinner Should Be Sooner
- Aromatic Compound Content Limit
- Mass-based Limits vs. Reactivity-based Limits
- Temporary Small Size Exemption
- VOC Content Labeling

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## Ongoing Consumer Products Activities



- Reactivity Program
- 2006 Consumer & Commercial Products Survey
- Cleaning Products
- Paint Removers or Strippers
- Dry-Clean Only Spot Removers
- Nail Coatings Exposure Assessment

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## Reactivity Program

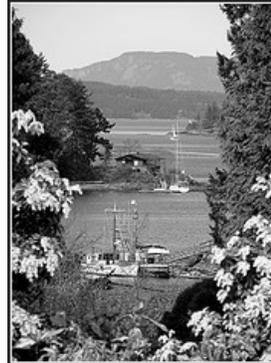
- Public Workshop to Discuss Proposed Amendments to Tables of MIR Values Follows Today
- ARB Participated in U.S. EPA's Reactivity Summit
- Improving Analytical Methods for Hydrocarbon Solvents

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## 2006 Consumer & Commercial Products Survey

- Released July 24, 2007
- Due November 21, 2007
- More than 550 Surveys
- Finalizing Survey Data
- Summaries Released this Summer



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## Cleaning Products

- Evaluation of Potential Adverse Impacts
- Personal exposure
  - Developing health values for substitute compounds
  - Scientific peer review of values
- Water Quality Impacts Assessment
  - Consultation with SWRCB
- Developing Exposure Scenarios
- Public Review of Impacts Assessment
- Regulation Amendments to Follow Completion of Assessment
  - Mitigation measures if necessary

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## Paint Removers or Strippers

- Evaluation of Products Reported in 2006 Survey
- Current VOC Limit is 50% By Weight, Effective 1/1/2005
- Methylene Chloride is Commonly Used
  - Over 50% of reported products contain MeCl
  - Concentrations ranged from 17-93% by weight
- Alternatives Under Evaluation Include:
  - benzyl alcohol
  - dibasic esters
  - dimethyl sulfoxide

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## Dry-Clean Only Spot Removers

- Summary of Findings from 2008 Survey
  - Seven companies reported 48 products
  - 0.16 TPD of VOCs were reported
  - VOC content ranged from less than 1% to 100%
  - Trichloroethylene was the most common VOC reported
- Evaluating Feasibility of Reducing VOCs and TACs from Formulations
- Non-chlorinated Products were Mostly Water-based

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## Nail Coatings Exposure Assessment

- Xylenes, Toluene, Dibutyl Phthalate, Formaldehyde from Nail Coatings Used in Salons
- Site Visits Conducted
- Performing Emissions Modeling
- Analyzing and Summarizing Results

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## Greenhouse Gas Emissions Evaluations



- Categories Under Evaluation:
  - Tire Sealants and Inflators
  - Aerosol Dessert Topping
  - Other Categories in 2003 or 2006 Consumer Products Surveys

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## Next Steps

- Continue to Confer with Stakeholders
- Finalize 2006 Survey Data Summaries
- Release Staff Report August 7, 2009
- Board Hearing in Diamond Bar September 24-25, 2009



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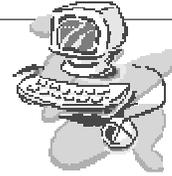
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# Websites



- **Air Resources Board website:** <http://www.arb.ca.gov>
- **Consumer Products website:**  
<http://www.arb.ca.gov/consprod/consprod.htm>
- **Consumer Products Regulations website:**  
<http://www.arb.ca.gov/consprod/regs/regs.htm>
- **Consumer Products List Server website:**  
<http://www.arb.ca.gov/listserv/listserv.php>
- **2009 Consumer Products Regulation Amendments website:**  
<http://www.arb.ca.gov/consprod/regact/tscpwg/tscpwg.htm>
- **2006 Survey website:**  
<http://www.arb.ca.gov/consprod/regact/2006surv/2006surv.htm>
- **Climate Change Program website:**  
<http://www.arb.ca.gov/cc/cc.htm>

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