



# Proposed Amendments to the California Consumer Products Regulation

June 26, 2008



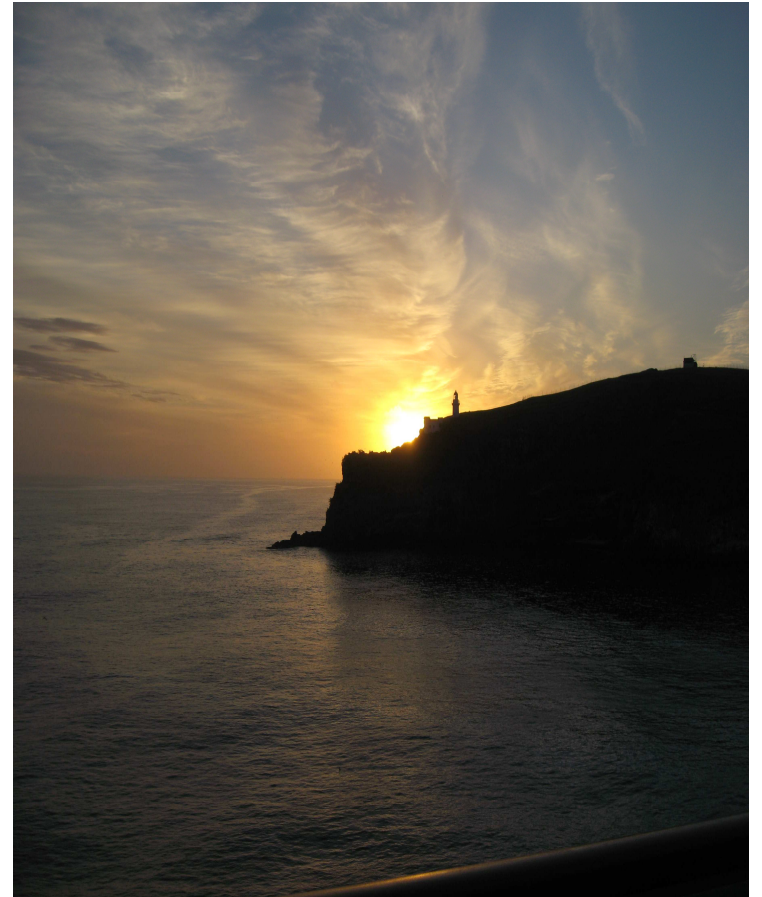
*California Environmental Protection Agency*

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**Air Resources Board**

# Presentation Overview

- Background
- Proposed Amendments
- Economic Impacts
- Environmental Impacts
- Proposed Modifications
- Issues
- Ongoing Work
- Recommendation



# Mandate to Control Consumer Product VOC Emissions

- Health and Safety Code 41712
  - Achieve maximum feasible reduction in VOCs
  - Technologically and commercially feasible regulations
  - Preserve product forms
- VOC Statewide Strategy Commitment (SIP):
  - 30 to 40 tons per day by 2014

# Consumer Products

- Chemically formulated
- Used by household and institutional consumers
- Include household, home and garden, aerosol paint, personal care, automotive maintenance products, etc.





# Mandate to Control Consumer Product Greenhouse Gas Emissions

- Assembly Bill 32
  - Discrete Early Action Measure
  - Overall estimate is to achieve reduction of 0.25 MMT CO<sub>2</sub>e



# Proposed Amendments

- New and modified definitions
- New or lower VOC limits
  - 19 categories; 25 limits
  - VOC emissions reduced by about 5.8 tons per day
- VOC exemption: HFE 7200
- Toxics prohibitions in various categories
- Other regulatory proposals
- Global warming potential limit for Pressurized Gas Duster

# Proposed Categories, VOC Limits, and Effective Dates

<b>Product Category</b>	<b>Proposed VOC Limit (wt%)</b>	<b>Effective Date</b>
<b>Air Care Products</b>		
Odor Remover/Eliminator *		
Aerosol	25	12/31/2010
Non-aerosol	6	12/31/2010
<b>Automotive Care Products</b>		
Motor Vehicle Wash*	0.2	12/31/2010
Tire or Wheel Cleaner*		
Aerosol	8	12/31/2010
Non-aerosol	2	12/31/2010
Windshield Water Repellent*	75	12/31/2010

\* Previously unregulated category

# Proposed Categories, VOC Limits, and Effective Dates

Product Category	Proposed VOC Limit (wt%)	Effective Date
<b>Cleaners &amp; Degreasers</b>		
Dusting Aid		
Aerosol	17	12/31/2010
Non-aerosol	3	12/31/2010
Glass Cleaner		
Aerosol	10	12/31/2012
Pressurized Gas Duster*	1	12/31/2010
<b>Fabric Care</b>		
Carpet/Upholstery Cleaner		
Aerosol	5	12/31/2010
Non-aerosol	1	12/31/2010
Fabric Protectant		
Non-aerosol	1	12/31/2010

\* Previously unregulated category

# Proposed Categories, VOC Limits, and Effective Dates

Product Category	Proposed VOC Limit (wt%)	Effective Date
<b>Fabric Care cont...</b>		
Fabric Softener – Single Use Dryer Product*	0.05 grams per use	12/31/2010
Spot Remover Aerosol	15	12/31/2010
Non-aerosol	3	12/31/2010
<b>Lubricants/Penetrants</b>		
Multi-purpose Lubricant	25	12/31/2013
	10	12/31/2015
Penetrant	25	12/31/2013

\* Previously unregulated category

# Proposed Categories, VOC Limits, and Effective Dates

<b>Product Category</b>	<b>Proposed VOC Limit (wt%)</b>	<b>Effective Date</b>
<b>Personal Care Products</b>		
Astringent/Toner-- Non-FDA regulated	35	12/31/2010
Personal Fragrance Product (20% or less fragrance)**	75	12/31/2014
<b>Sealant or Caulking Compound</b>		
Chemically Curing non-aerosol	3	12/31/2012
Non-chemically Curing non-aerosol	1.5	12/31/2010
<b>Waxes and Polishes</b>		
Floor Maintenance Product*	1	12/31/2010
Floor Polish or Wax--Wood Floor Wax	70	12/31/2010

\* Previously unregulated category

\*\* Remove Grandfather Clauses

# Proposed VOC Exemption: Hydrofluoroether (HFE) 7200

- Solvent used in precision (electronic) cleaning
- Environmental Impact Assessment report completed in March 2008
  - Negligibly reactive with respect to ground-level ozone formation
  - Low GWP
  - Replaces compounds with higher GWP and/or stratospheric ozone depleting compounds
  - No other adverse impacts identified

# Proposed Prohibition on Use of Toxic Compounds

- Prohibit use of Perchloroethylene, Methylene Chloride, Trichloroethylene in:
  - Carpet/Upholstery Cleaner
  - Fabric Protectant
  - Multi-purpose Lubricant
  - Penetrant
  - Sealant or Caulking Compound
  - Spot Remover
- Reduction of about 0.20 tons per day in 2010



# Greenhouse Gas Proposal

- GWP limit for Pressurized Gas Duster:
  - 150 CO<sub>2</sub>e, effective 12/31/10
  - 1% VOC limit
- Prohibit Perchloroethylene & Methylene Chloride
- Reduces 0.2 MMT CO<sub>2</sub>e per year



# Other Regulatory Changes

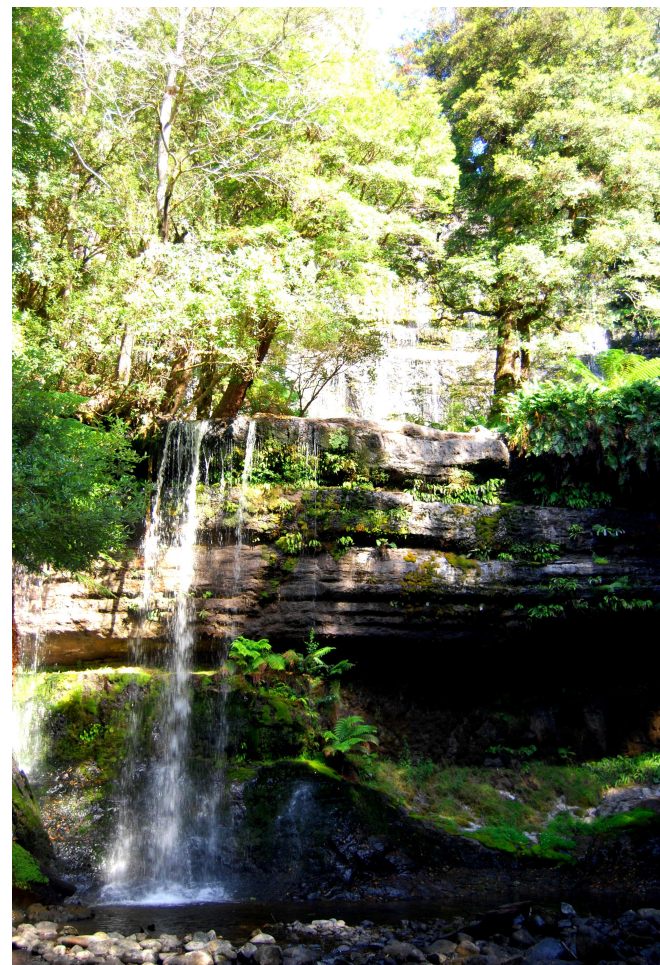
- Determining VOC content for diluted products sold in ready-to-use containers
- Restore exemption for Furniture Maintenance Product (solid/paste forms)
- Date coding
- Method 310 used to determine compliance with global warming potential limit
- Other necessary conforming modifications

# Economic Impacts

- Cost-effectiveness
  - \$6.23 per pound of VOC reduced
  - \$0.22 per metric ton CO<sub>2</sub>e reduced
- Average change in return on owner's equity is 2.5 percent

# Environmental Impacts

- VOC reduction of 5.8 tons per day
  - Reduces ground-level ozone concentrations
- Greenhouse gas reduction of 0.2 MMT CO<sub>2</sub>e per year
- Toxics prohibitions reduce exposure to carcinogens
- No significant adverse impacts



# Proposed Modifications

- Definitions
  - Floor Maintenance Product
  - Not for Retail Sale
  - Personal Fragrance Product
  - Sealant or Caulking Compound
- Motor Vehicle Wash limit
  - Applies to non-aerosol products only
- Sealant or Caulking Compound labeling requirement

# Issues

- VOC limits
  - Astringent/Toner (non-medicated)
  - Carpet/Upholstery Cleaner
  - Fabric Softener-Single Use Dryer Product
  - Motor Vehicle Wash limit should only apply to dilutable products
- Pressurized Gas Duster sell-through period
- Compliance timelines
- Proposal should include more categories

# Ongoing Work

- Cleaning products
- Paint and lacquer thinners
- Nail coatings
- Spot removers for dry clean only fabrics
- Paint strippers
- Evaluate other categories for VOC and greenhouse gas reductions

# Recommendation

- Adopt staff's proposed amendments with modifications described today

