

# 2008 Consumer Products Regulation Workgroup Meeting

*August 29, 2007*



*California Environmental Protection Agency*

**Air Resources Board**

1

## Overview

- Background
- Update on 2006 Regulatory Amendments
- 2006 Survey
- 2008 Regulatory Amendments
- Update On Other Consumer Products Activities
- Schedule
- Contacts and Resources



2

# Background

3

## Requirements of State Law

- 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

4

## Consumer Products

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



5

## Program Highlights

- 5 regulations adopted
- 150 VOC limits set for 115 categories of products
- 200 tons per day of emission reductions achieved
- Overall more than 40% reduction in emissions (50% from regulated categories)
- 13 tons per day of chlorinated toxic air contaminants reduced
  - Prohibitions in 63 categories

6

## **2007 State Implementation Plan (State Strategy)**

- Committed to 30-40 tpd VOC reductions statewide
- Goal of 2008 rulemaking is 10 – 20 tpd VOC emission reductions
- To be considered at September 25, 2007 hearing in Diamond Bar

7

## **Update on 2006 Regulatory Amendments**

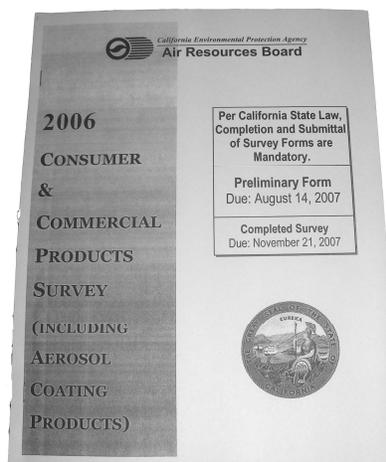
8

## Update on 2006 Amendments

- July 24, 2007: 15-Day comment period ended
- By late Sept, 2007: ARB submits 2006 FSOR to OAL
  - 30 Working Days required for OAL Review
- Mid-Nov, 2007: Upon approval, OAL files regulation with Secretary of State
- Mid-Dec, 2007: Regulation becomes legally effective
- Adopted limits will achieve 11.5 tpd VOC reduction

9

## 2006 Consumer Products Survey



- Lead Manager: David Mallory
- Lead Staff: Trish Johnson

10

## **2006 Consumer & Commercial Survey (including Aerosol Coating Products)**

- Released: July 24, 2007
- Mailed over 5000 notices to interested parties on both consumer products & aerosol coatings mailing lists
- Due: November 21, 2007

11

## **2006 Consumer & Commercial Survey (including Aerosol Coating Products)**

- More than 1000 Preliminary Forms have been returned
- Approx. 1/3 of Preliminary Forms returned indicate FORMs 1-4 will be completed
- Mailed CDs to over 50% of companies working on FORMs 1-4

12

## 2006 Survey Training

- Webcast Training Session:  
Tomorrow, Thurs., Aug. 30<sup>th</sup>,  
10:00 a.m. PDT
- Cal/EPA Headquarters  
Building, Sierra Hearing  
Room
- Completion of survey FORMs  
1-4 electronically or by  
hardcopy
- Question and answer session



13

## 2008 Consumer Products Regulatory Amendments

- Lead Manager: Carla Takemoto
- Lead Staff: Femi Olaluwoye

14

## **2008 Regulatory Amendments**

- 2006 Consumer Products Survey Data
- Initial Draft Proposals for Categories
  - Consists of deferred categories from 2006 rulemaking
- VOC Exemptions
- Reactivity Program
- Climate Change

15

## **Initial Draft Proposed Category Standards – Mass Based**

### Table Description

- Previously Regulated?
- Category Emissions
- VOC Range
- Sales Weighted Average VOC Content

16

## Initial Draft Proposed Category Standards – Mass Based

### Table Description (cont.)

- Proposed VOC Limit
- Reductions Achieved
- Complying Market Share
- Complying Products / Total Products

\*Some Data Withheld to Protect Confidentiality

17

## Initial Draft Proposed Category Standards – Mass Based

### Market Sectors

- Air Care
- Automotive Care
- Cleaners / Degreasers
- Fabric Care
- Lubricants / Penetrants
- Personal Care
- Sealants & Caulks
- Waxes & Polishes
- Miscellaneous
- Paint & Lacquer Thinner



18

## **Initial Draft Proposed Category Standards – Reactivity Based**

### Table Description

- Category Emissions
- Ozone Forming Potential (OFP)
- MIR Range
- Sales Weighted Average MIR

\*Based on existing table of MIR values

19

## **Initial Draft Proposed Category Standards – Reactivity Based**

### Table Description (cont.)

- Proposed MIR Limit
- Reductions Achieved (Mass Ozone reduced)
- Equivalent Emissions Reduction
- Complying Market Share
- Complying Products / Total Products

20

# Initial Draft Proposed Category Standards - MIR

## Market Sectors

- Adhesives (aerosol)
- Food Related
- Personal Care



21

## VOC Exemptions

- If appropriate, propose exemption(s) as part of 2008 Rulemaking
- TBAC
  - Evaluation of whether exemption in consumer products results in potential health hazards
    - Metabolite is a carcinogen
  - Final Report: January 2006
- HFCs, HFEs, HCFCs
  - Concern with potential adverse impacts
  - Draft report on multimedia impacts

- Lead Manager: Carla Takemoto

22

## Reactivity Program

- New chemical mechanism to derive MIR values
  - SAPRC 2007
  - Developed by Dr. Carter, U.C. Riverside
- SAPRC 2007 will form basis for updating MIR scale as part of 2008 rulemaking
  - Current MIR values in sections 94700 and 94701
- Reactivity Research Advisory Committee meeting

23

## Reactivity Program (cont'd)

- Consumer product research contract with Dr. Carter
    - Improve understanding of amine chemistry and d-limonene
  - Preliminary research findings
    - Current amine mechanism chemistry was incorrect
    - AMP may act as inhibitor
  - Improved mechanism will be added to SAPRC 2007, fall 2007
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- Lead Manager: Carla Takemoto

24

## Climate Change

- “Climate change” refers to average global temperature rise due to man-made sources of greenhouse gases (GHGs)
- GHGs create the “greenhouse effect”
  - Gases absorb heat, get trapped near Earth’s surface and warm the land, water, and air.
- GHGs include: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, perfluorocarbons (PFCs), hydrofluorocarbons (HFCs), and SF<sub>6</sub>

25

## Climate Change

- Scientific community predicts disastrous results from global warming
  - Increase in severe weather occurrences (drought, flashflood, etc.)
  - Rising sea level, diminished water supply (in CA especially)
  - Higher ambient ozone levels due to higher temperatures

26

## Climate Change

- AB 32: California Global Warming Solutions Act of 2006
  - Governor signed in Sept. 2006
  - Requires cap of GHG emissions at 1990 levels by 2020 (~170 MMTCO<sub>2</sub>e reductions)
    - 2008: Adopt early action measures and scoping plan
    - 2009: Implement scoping plan
    - 2011: Complete adoption of GHG limits
    - 2020: GHG to 1990 levels

27

## Climate Change

- Categories to be evaluated:
  - Gas dusters
  - Tire sealants and inflators
  - Chewing gum remover
  - Other categories in 2003 or 2006 survey
- GHG reductions will not come at the expense of backtracking on existing Consumer Products Program

▪ Lead Manager: David Mallory

28

## **Update On Other Consumer Products Activities**

- Innovative Emission Reduction Concepts
- Emissions Inventory Update
- Consumer Products Fee Update
- Cal/EPA Green Chemistry Initiative

29

## **Innovative Emissions Reduction Concepts**

- Feasible and cost effective VOC reductions are difficult to identify
- 2007 SIP: Explore feasibility of “innovative approaches”
- Discussions of alternatives beginning
- Staff exploring concepts



## **Emissions Inventory Update**

- Inventory update in late 2007 or early 2008
- Will share proposed update with Consumer Products Regulation Workgroup

31

## **Update on Consumer Products (CP) Fee Program**

- AB10X CP Fee Requirements
  - Applicable to manufacturers selling products in CA that result in 250 tpy or more of VOC emissions
- Fiscal Year 2007-2008 CP Fee Emissions
  - Use 2005 VOC emissions
  - Based on 2003 CP Survey submittals adjusted by population growth
  - Case by Case Updates
- FY 2007-2008 Schedule
  - Preliminary Fee Determinations: Aug 2007
  - Final Fee Determinations: Nov - Dec 2007

32

## **Consumer Products Fee Program (*cont'd*)**

### **For More Information:**

- <http://www.arb.ca.gov/consprod/regact/feewg/feewg.htm>
- [http://www.arb.ca.gov/ei/nscpac\\_fees/nscpac\\_fees.htm](http://www.arb.ca.gov/ei/nscpac_fees/nscpac_fees.htm)

### **Program Contacts:**

- Ms. Judy Yee, Manager, Implementation Section at 916-322-9148 or [jyee@arb.ca.gov](mailto:jyee@arb.ca.gov)
- Ms. Lynn Yeung, Air Pollution Specialist at 916-327-6935 or [lyeung@arb.ca.gov](mailto:lyeung@arb.ca.gov)

33

## **Cal/EPA Green Chemistry Initiative**

- Stakeholders asked to create a list of options in areas of data, research, and implementation tools
- Leadership Council with staff work groups
  - Will evaluate options and present to Cal/EPA Secretary by January 1, 2008, and
  - Craft recommendations for a comprehensive chemicals policy by July 1, 2008
- Opportunities for Stakeholder Involvement
  - Participation at symposia and public workshops
  - Through weblog, "A Conversation with California" and written comments
- For more information and schedule
  - <http://www.dtsc.ca.gov/PollutionPrevention/GreenChemistryInitiative/index.cfm>
- Lead Manager: Judy Yee

34

## Schedule

- Survey Training:  
August 30
- Carter Consumer Products  
Work - Draft Final:  
Fall 2007
- Second Workgroup  
Meeting: Fall 2007
- CP Survey due:  
November 21, 2007
- Board Hearing: June 2008



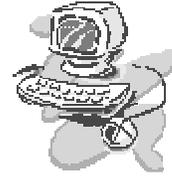
35

## Contact Information

Name	Responsibility	Phone	Email
Janette Brooks	Chief, Air Quality Measures Branch	(916)322-7072	jbrooks@arb.ca.gov
Carla Takemoto	Manager, Technical Evaluation Section Lead Manager on 2008 Regulatory Amendments; Aerosol Coating reg; Antiperspirant & Deodorant reg; VOC Exemptions; Reactivity; Toxics; Select CP categories	(916)324-8028	ctakemot@arb.ca.gov
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Judy Yee	Manager, Implementation Section ACP; IPE; CP Fees; Select CP categories	(916)322-9148	jyee@arb.ca.gov
Femi Olaluwoye	Staff Lead, 2008 Regulatory Amendments	(916)327-1503	oolaluwo@arb.ca.gov
Trish Johnson	Staff Lead, 2006 Consumer Products Survey	(916)445-3365	tjohnson@arb.ca.gov

36

# Websites



- **Air Resources Board website:** <http://www.arb.ca.gov>
- **Consumer Products website:**  
<http://www.arb.ca.gov/consprod/consprod.htm>
- **2006 Survey website:**  
<http://www.arb.ca.gov/consprod/regact/2006surv/2006surv.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>
- **2008 Consumer Products Regulation Amendments website:**  
<http://www.arb.ca.gov/consprod/regact/cpwg2008/cpwg2008.htm>