

**Pharmaceutical & Personal Care Products
in the Environment Symposium
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Consumer Products Program

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Air Resources Board

Ground-level O₃ & Indirect PM Formation

- Volatile Organic Compounds (VOCs)
- NO_x, SO_x, plus other chemicals
- React with Sunlight



Consumer Products

- South Coast Air Basin - largest VOC source in 2020
- San Joaquin Valley - 3rd largest VOC source in 2020
 - 1st Livestock
 - 2nd Prescribed Burning

Consumer Products Program

- California Clean Air Act requires ARB to regulate consumer products
- Consumer products:
 - Chemically formulated
 - Used by household and institutional consumers
 - Exclude non-aerosol paint products, furniture coatings or architectural coatings
- Health & Safety Code requirements:
 - Commercial and technological feasibility
 - Preservation of product form
 - Maintain efficacy of Health Benefit Products

Consumer Products Program

- Reduce VOC emissions to meet Federal 8-hour Ozone Standards
- Staff develops VOC standards for consumer products
 - Collect data via Consumer Products Surveys
 - Determines products potential to emit VOCs
 - Mass-based VOC limits
 - Reactivity based standards for aerosol coatings



Prescription & Over the Counter (OTC) Drugs

- VOC limits for Antiperspirants/Deodorants
- No limits for any other OTC drugs
- Surveyed skin care products
- If products have a potential for VOC emissions, may survey in the future



Personal Care Products

- Antiperspirants / Deodorants
- Hair Mousses, Hair Shine & Hair Spray
- Hair Styling Gels & Styling Products
(aerosol & pump sprays, plus all other forms)
- Heavy-duty Hand Cleaners or Soap
- Nail Polish Remover
- Personal Fragrance Products
- Shaving Cream & Shaving Gel

