

DTSC's Safer Consumer Products Program Short Course

NorCal SETAC Annual Meeting

April 29, 2015

Course Outline

1. Safer Consumer Products Program (Program) history and overview

An overview of why the Program was started, how it is different from other regulatory programs, and the overall process of the Program.

2. Candidate Chemical List

Information about how the Candidate Chemical list was formed, the theory behind it, and what it means for the Program and stakeholders.

3. 2015-2017 Priority Product Work Plan

Go over the recently released Work Plan detailing the Program's focus for the next 3 years, including product categories, possible chemicals, and priorities.

4. Priority Product Selection

Detail the process for selecting a Priority Product, including assessing potential for significant or widespread adverse impacts and exposure.

5. Alternative Analysis and Associated Challenges

Briefly detail the purpose of Alternative Analyses as well as the challenges faced by responsible entities and DTSC in choosing alternatives.

6. Research Needs of the Program

Detail the types of research that the program relies on to be able to prioritize and select Priority Products and provide brief examples.

There will be time for questions and discussion throughout the course.

Useful Links

DTSC Website	www.dtsc.ca.gov
SCP Website	www.dtsc.ca.gov/SCP
SCP Regulations	http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/SCPA.cfm
Candidate Chemical List Database	http://cit.dtsc.ca.gov/scp/chemicalsearch/
2015-2017 Priority Product Work Plan	http://www.dtsc.ca.gov/SCP/PPWP.cfm

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2015-2017 Priority Product Work Plan Categories¹

Beauty/Personal Care/Hygiene	Cleaning Products
Skin Products Personal Hygiene Products Hair Products Cosmetics and Fragrances	Fresheners and Deodorizers Cleaners Laundry Surface Care
Building Products: Painting Products, Adhesives, Sealants and Flooring	Clothing
Adhesives and Glues Carpeting and Carpet Padding Engineered Wood and Laminate Flooring Paints and Primers Paint and Graffiti Removers Roof Coatings Sealants Vinyl Flooring	Full Body Wear Lower Body Wear and Bottoms Sleepwear Sportswear Underwear Upper Body Wear and Tops
Household/Office Furniture/Furnishings with PFCs, FRs	Fishing and Angling Equipment
Bedding Curtains Fabric and Textile Furnishings Household and Office Seating	Fishing weights
	Office Machinery Consumable Products
	Inks and Toners Thermal Paper

¹ Source: DTSC Priority Product Work Plan <http://www.dtsc.ca.gov/SCP/PPWP.cfm>

OEHHA Hazard Traits

Division 4.5, Title 22, California Code of Regulations Chapter 54

Green Chemistry Hazard Traits for California's Toxics Information Clearinghouse

http://oehha.ca.gov/multimedia/green/pdf/GC_Regtext011912.pdf

Toxicological Hazard Traits

Carcinogenicity
Reproductive Toxicity
Dermatotoxicity
Epigenetic Toxicity
Hematotoxicity
Immunotoxicity
Nephrotoxicity
Neurotoxicity
Ototoxicity
Respiratory Toxicity

Developmental Toxicity
Cardiovascular Toxicity
Endocrine Toxicity
Genotoxicity
Hepatotoxicity and Digestive System Toxicity
Musculoskeletal Toxicity
Neurodevelopmental Toxicity
Ocular Toxicity
Reactivity in Biological Systems

Environmental Hazard Traits

Domesticated Animal Toxicity
Phytotoxicity
Wildlife Growth Impairment
Wildlife Survival Impairment
Loss of Genetic Diversity

Eutrophication
Wildlife Developmental Impairment
Wildlife Reproductive Impairment
Impairment of Waste Management Organisms

Exposure Potential Hazard Traits

Ambient Ozone Formation
Environmental Persistence
Lactational or Transplacental Transfer
Particle Size or Fiber Dimension

Bioaccumulation
Global Warming Potential
Mobility in Environmental Media
Stratospheric Ozone Depletion Potential

Physical Hazard Traits

Combustion Facilitation
Explosivity
Flammability

Alternatives Analysis

Required Life Cycle Assessment Considerations <i>California Health and Safety Code 25253</i>	
Product function or performance	Energy efficiency
Useful life	Greenhouse gas emissions
Materials and resource consumption	Waste and end-of-life disposal
Water conservation	Public health impacts (sensitive subpopulations)
Water quality impacts	Environmental impacts
Air emissions	Economic impacts
Production, in-use and transportation energy inputs	

SCP Research Needs

- Monitoring studies (including California specific)
 - Aquatic environments, indoor environments, sensitive subpopulations, biomonitoring
- Chemical source information
 - Product-specific source information
 - Changes in use, emerging chemicals
- Environmental fate of chemicals
- Long term animal studies
- Studies on endpoints, including:
 - Endocrine disruption
 - Obesity
 - Developmental and reproductive toxicity
- Metabolite toxicity studies
- Sensitive sub-population research (ex. biomonitoring of pregnant women, children or workers)
- Epidemiological studies
- Methods and approaches for filling data gaps
- Methods and approaches for comparing chemicals with varying amounts of data
- Identification of product categories most important for human or environmental exposures
 - Link between exposure and products
- Methods for proper assessment of “pseudo-persistent” chemicals
- Conceptual environmental exposure models for use in AA