

Informing Safer Consumer Products Decisions through Biomonitoring

Biomonitoring California

Scientific Guidance Panel

July 10, 2014

Meredith Williams, Deputy Director



Department of Toxic Substances Control

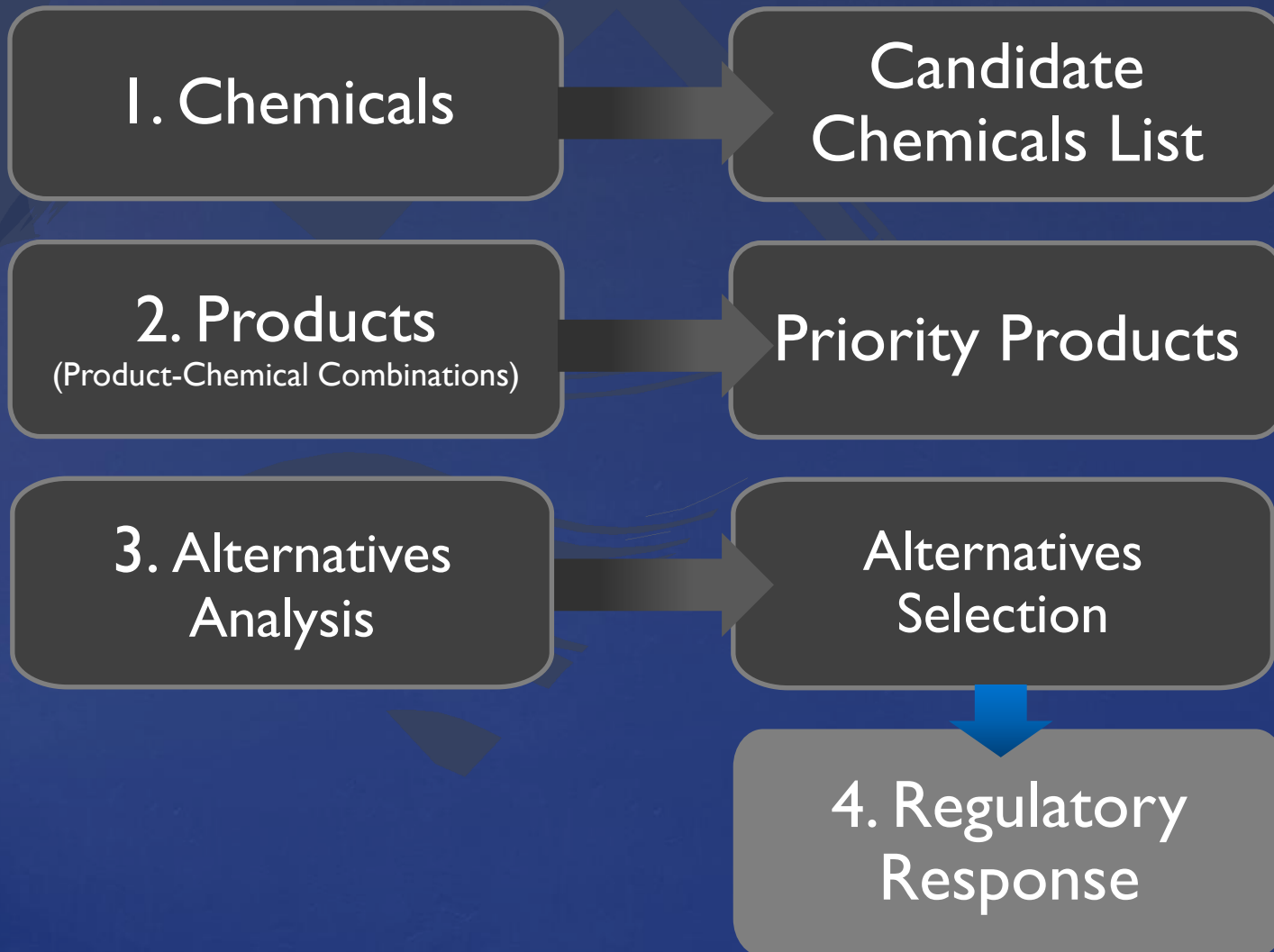


Cal/EPA

Today

- Regulations process overview
- Products selection process
- Program linkages

Safer Consumer Products Regulations: How it works



1

Candidate Chemicals Identification

2. Identify Priority Products with Chemicals of Concern
3. Alternatives Analysis
4. Regulatory Response

I. Candidate Chemicals



- 23 Authoritative Lists referenced
- Includes Biomonitoring CA priority chemicals
- Includes chemicals from CDC's 4th National Report
- Exclusions include pesticides and prescription drugs

1. Candidate Chemical Selection

2. Identify Priority Products with Chemicals of Concern

3. Alternatives Analysis

4. Regulatory Response

- 1. Candidate Chemical Selection**
- 2. Identify Priority Products with Chemicals of Concern**

3. Alternatives Analysis

- 4. Regulatory Response**

3. What an Alternatives Analysis does

- Answers key questions
 - Is it necessary?
 - Is there a safer alternative?
 - Have regrettable substitutes been avoided ?
- Informs
 - Regulated entities' decisions
 - DTSC's regulatory response

- 1. Candidate Chemical Selection**
- 2. Identify Priority Products with Chemicals of Concern**
- 3. Alternatives Analysis**

4 Regulatory Response

4. Possible Regulatory Responses

- No response
- Additional information to DTSC
- Additional information to consumer
- Additional safety measures
- Restrictions/Prohibitions on Sales
- End-of-life product stewardship
- Research funding

1. Candidate Chemical Selection

2. Identify Priority Products with Chemicals of Concern

3. Alternatives Analysis

4. Regulatory Response

Key Prioritization Principles

- Potential **exposure** to the Candidate Chemicals in the product

AND

- Potential for exposures to contribute to or cause **significant or widespread adverse impacts**

Prioritization Factors

- Adverse Impacts and Exposures
 - Candidate Chemical properties, traits, env/tox endpoints
 - Potential human/enviro adverse impacts
 - Sensitive subpopulations
 - Market presence
 - Potential exposures over product's life cycle - households, workplaces
- Waste and End-of-Life Effects
- Availability of Information
- Other Regulatory Programs
- Availability and feasibility of alternatives

2. Initial Priority Product Selection

- Paint Strippers and Varnish Removers with Methylene Chloride
- Children's Foam Padded Sleep Products with TDCPP (Chlorinated Tris)
- Spray Polyurethane Foam Systems with Unreacted Diisocyanates

The Process



In progress

Fall 2014



Workshops
Meetings
Comments
Data/Information



Research
Q/A
Refinement
Dialogue



Rulemaking:
- Formal comment period
- Formal hearing
- Supporting documents

2. Next Round of Products

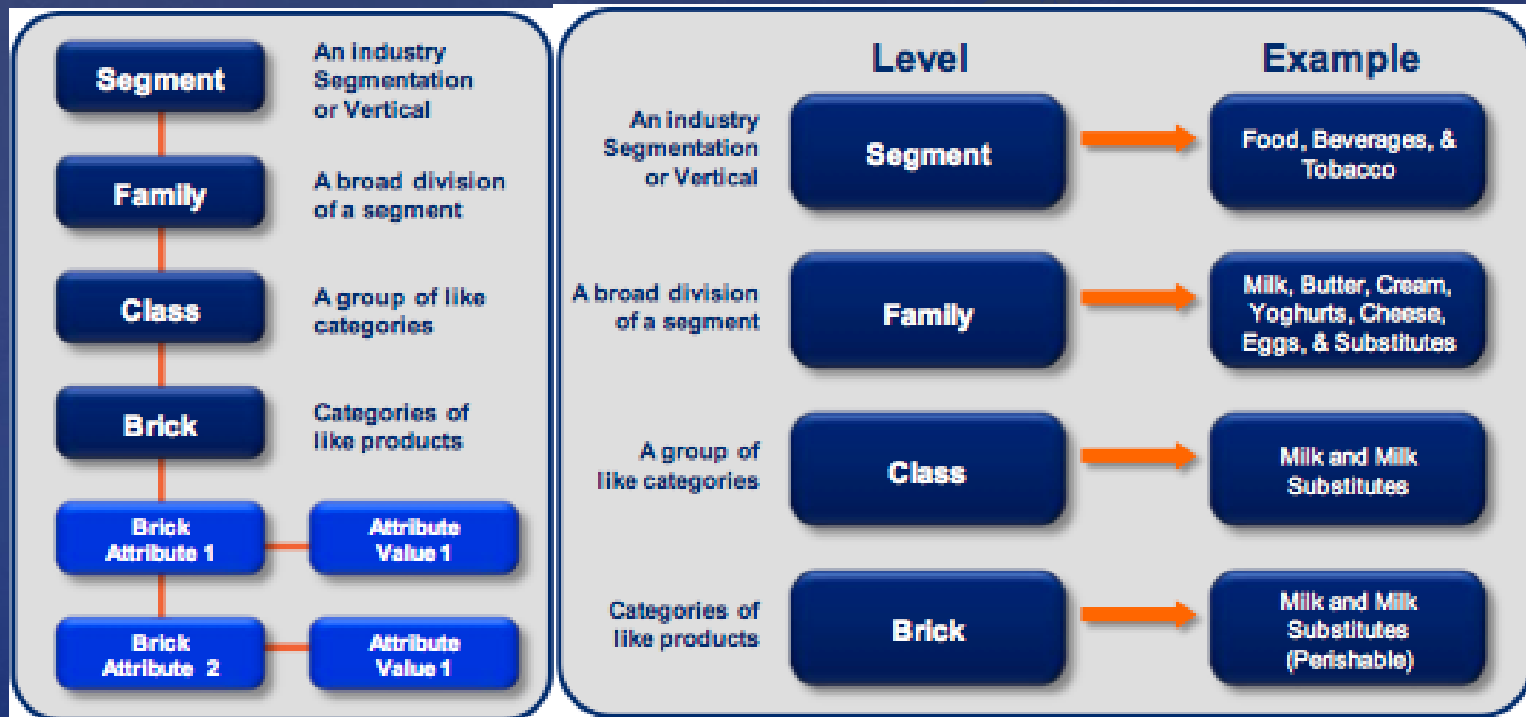


- 3 Year Work Plan
- Product Categories
- October 2014

Work Plan Product Categories

- Regs do not define “product category”
- Looking for the optimal level of granularity

Global Product Classification Taxonomy



3 Year Work Plan Screening Process

- Hazard or Endpoint
- Chemical
- Evidence of Exposure
- Sensitive subpopulation
- Nomination process

- Functional Use
- Complementary agency programs

Complementary regulatory efforts

- DPH Occupational Health Branch
 - Safe Cosmetics Program
 - HESIS
- OEHHA Toxics in Children's Art Supplies
- Cal/OSHA Exposure Limits
- US EPA 83 TSCA work plan chemicals
- CA ARB Consumer Products Regulations



Green Ribbon Science Panel



Program challenges

- Data gaps and emerging science
- Product ingredient verification
- Signaling the market appropriately
- Alternative analysis evaluation
- How to have the impact intended by the statute

SCP ↔ Biomonitoring



- What is the nexus?
- How do they complement each other?
- 10 years from now...

Opportunities to link to Biomonitoring CA

- Evidence of exposure
- Sensitive subpopulations studies
- Prioritization of chemicals & chemicals of emerging concern
- Development of indicators of program efficacy
- Decision making support

Biomonitoring and SCP

- Opportunities for complementary studies
- Biomonitoring CA may be positioned to address data gaps
- SCP can learn from the Biomonitoring prioritization processes
- Interested in other global sources of biomonitoring information