# Session 5: Information Quality & Rulemaking

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### **Presentation Outline**

#### ► U.S. EPA: Ensuring Chemical Safety

- Transition to a new legal framework
- Risk-based safety standards
- Scientific Requirements
- Implementation
- Current Status
- An Effective Approach
- Questions?

### **Ensuring Chemical Safety**

- EPA regulates chemicals under the Toxic Substances Control Act (TSCA) of 1976
- TSCA was amended and updated by the "Frank R. Lautenberg Chemical Safety for the 21<sup>st</sup> Century Act" which went into effect on June 22, 2016.
- The amendments received large bipartisan support in both the U.S. House of Representatives and the U.S. Senate., as well as stakeholders.
- Separate requirements for reviewing <u>existing</u> chemicals vs. <u>new</u> chemicals
  - Note: chemicals on the market when original law was passed were previously "off limits" for EPA evaluation; new amendments <u>require</u> EPA to go back and assess their safety

## **Ensuring Chemical Safety**

#### Existing Chemicals:

- Review process includes prioritization into "high" and "low" priorities
- High Priority: chemical may present an unreasonable risk of injury to health or environment
- Designation of High Priority triggers a mandatory risk evaluation
- New Chemicals must be <u>pre-cleared</u> by EPA before they can enter the market
- Decision rests on whether the chemical:
  - Presents an unreasonable risk
  - May present an unreasonable risk
  - Is not likely to present an unreasonable risk
  - Information is insufficient to permit a reasoned evaluation of the risk

#### **Risk-Based Safety Standard**

- Chemicals assessed against a new risk-based safety standard to determine whether a chemical use poses an "unreasonable risk"
  - Costs and other non-risk factors <u>are excluded</u>
- Risks to "potentially exposed or susceptible subpopulations," including workers, must be considered
- Unreasonable risks identified in the risk evaluation <u>must</u> be eliminated through "risk management actions"
  - Costs and availability of alternatives
  - Possible exemptions for critical uses
  - Risk management actions must be taken within 2 years of completing the risk evaluation

### Scientific Requirements

- EPA will base decisions on the "<u>best available science</u>" and on the "<u>weight of scientific evidence</u>" while also considering:
  - Whether the information and the methods to obtain the information are reasonable for and consistent with the intended use
  - Extent to which the information is relevant
  - Degree of clarity and completeness of data, assumptions, methods, quality assurance, and analyses
  - Extent to which the variability and uncertainty in the information are evaluated and characterized
  - Extent of independent verification or peer review of the information

#### Implementation

"Fit-For-Purpose" Systematic Review

- Documentation and publication of the review process is nearing completion, with a web portal to be launched in the near future
- Examples: Data Integration/Weight of Evidence (WOE)
  - Highly comprehensive particular assessment, including all available literature
  - Screening level assessments for endocrine activity
  - Limited evaluations focusing on narrow scientific questions completed in accordance with statutory requirements

#### Implementation

- In addition, new guidance on how to develop and submit information to be considered during assessments of chemicals and pesticides
- Ensures that stakeholders understand precisely what is needed for EPA to assess the safety of a given chemical or pesticide
- Scope of this activity goes well beyond the world of chemicals and pesticides; likely that the rest of EPA will eventually follow suit
- End result: more detailed, more transparent decision making process that allows stakeholders to understand <u>why</u> regulatory decisions are made

#### **Current Status**

#### First 10 existing chemicals for evaluation have been published:

1,4-Dioxane 1-Bromopropane Asbestos Carbon Tetrachloride Cyclic Aliphatic Bromide Cluster (HBCD) Methylene Chloride (MC) N-methylpyrrolidone (NMP) Pigment Violet 29 Tetrachloroethylene, or perchloroethylene (perc) Trichloroethylene (TCE)

In mid-June, EPA will propose a Final Rule for the Risk Evaluation Process

- Currently undergoing review and clearance within the Agency
- The scope of the risk evaluations of the 10 chemicals listed above will be published, as well

## An Effective Approach

- Implementation is underway, and will continue to be refined going forward
- Legislative changes described here allow EPA to strengthen our riskbased, evidence-based approach to regulation in the field of chemicals
- Basing our regulatory decisions on sound science leads to a safer, cleaner environment for everyone
- Questions?