



Principles, Standards & Regulatory Trends

Green Engineering and Technology
Transfer Workshop

March 3, 2010

Troy, Michigan



EPA Administrator's Key Themes

- Climate Change
- Improving Air Quality
- Assuring the Safety of Chemicals
- Protecting America's Waters
- Cleaning up our Communities
- Environmentalism and Environmental Justice
- Strong State and Tribal Partnerships



Climate Change

Regulatory

- Endangerment Finding
- GHG Emission Standards
- Fuel Economy Standards
- Renewable Fuel Standard
- Potential Legislation



Climate Change

Beyond Regulation

- Life Cycle Impact
 - Supply Chain
 - Manufacturing
 - Use
 - Retirement



Improving Air Quality

- Air Quality Standards
 - Manufacturers
 - Parts Suppliers
 - Raw Materials
 - Energy Providers



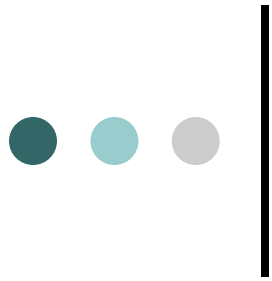
Assuring the Safety of Chemicals

- US Regulations
 - Limited
 - May be expanded
- Beyond U.S.
 - REACH
 - Other drivers



Assuring the Safety of Chemicals

- Toxic Substances Control Act
 - **Track** chemical substances the manufacture, processing, distribution in commerce, use, or disposal, or any combination may present unreasonable risk of injury to health or the environment.
 - If the chemical's manufacture, processing, distribution, use or disposal presents unreasonable risk, **prohibit or limit** it



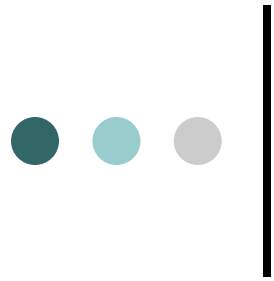
Chemical Management Plans

New

- Short-Chain Chlorinated Paraffins and other CPs
 - *Metal cutting*
- Polybrominated Diphenyl Ethers
 - *Flame retardants*
- Phthalates
 - *Flexible plastics*
- Long-chain Perfluorinated Chemicals
 - *Surface coating – non stick, waterproofing, etc.*

In Process

- Benzidine Dyes and Pigments
- Bisphenol-A



TSCA Reauthorization

Principles for Reform

1. Sound science & risk-based criteria
2. Adequate information from manufacturers
3. Consider sensitive populations, substitutes, etc.
4. Timely action
5. Promotion of Green Chemistry



EPA Research Priorities

- Endocrine disruptors
- Nanotech
- Emerging contaminants of concern



Bigger Questions

- What are your goals?
- What problem(s) are you trying to address?
- Why is this needed?
- Who else is already doing it, or parts of it?



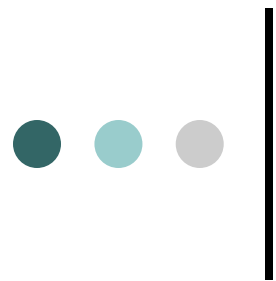
Bigger Questions

- Are you limited to automakers?
 - What do they need?
 - Do they know they need it?
 - Do they want it?
 - Would they use it?
- Same applies to suppliers and workforce



Bigger Questions

- Getting ahead of
 - Regulations
 - Standards
 - Consumer Demand
 - Related Public Policy Goals
 - Other Drivers



Cleaning up Communities
Environmentalism
Environmental Justice
State & Tribal Partnerships

- Green Economy – jobs, products, energy
- Sustainable Clean-up – green brownfields
- Smart Growth – transportation
- Holistic approaches such as ...



Green Suppliers Network

- Overview
- Problem
- Breaking down barriers
- Successes



E3

- Economy-Energy-Environment
- Audience of the willing
- Customized local or regional program
- Metrics, follow-up
- Opportunity for Detroit and Michigan



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