

Chemical Screening Programs



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U.S. Programs



- TSCA
 - Inventory
 - PMN
 - Inventory update
 - Significant adverse reaction reports (Sec. 8e)
 - Additional data requests
- FIFRA
- EPA OPPTS Harmonization of test guidelines

U.S. Programs - Continued

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- HPV Challenge
- Voluntary Children's Chemical Evaluation Program
- TRI PBT reporting thresholds
- PBT profiler
- EPA endocrine screening program
- FDA regulated products screening
- USDA food safety inspection program

U.S. Programs - Continued

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- Federal hazardous substance act/CPSC hazard identification/labeling program
- National toxicology program
- NIEHS
- ATSDR
- NIOSH

International Programs

- CEPA-DSL
- EU REACH proposal
- EU interim PBT strategy
- UNECE convention on LRT POPs protocol
- Stockholm convention on POPs
- UNEP Rotterdam convention
- UN Economic Social convention
- CEC SMOC
- International HPV program

TSCA

- Inventory listing
 - 1979 initial – 61,000 substances
 - PMN Screening – 36,600 substances screened since 1976
 - Inventory update – every 4 years, 1080 companies reported on 9,000 chemicals in '02
 - Sec 8(e) Sig. Adverse Reaction Reports – 15,000 reports
 - Sec 5 Additional Data Requests – 300 in '03

FIFRA

- Products registered – no unreasonable risk to public health and environment
- Data submitted pursuant to EPA protocol
 - Toxicology, physical properties, mobility, hazards to humans, animals, non-target organisms, potential to contaminate surface water or groundwater from leaching, runoff, and spray drift

EPA OPPTS Harmonization

- Test protocols for substances subject to TCSA and FIFRA
 - Product performance, properties, fate transport and transformation, spray drift, ecological effects, residue chemistry, health effects, occupational and residential exposure, biochemicals, and microbial pesticides

EPA HPV Challenge

- Human health and environment effects testing on high volume chemicals
 - 2,800 chemicals produced or imported in quantities > 1 million lbs. per year
 - Physical properties, environmental fate, environmental toxicity, repeat dose toxicity, reproductive/developmental toxicity
 - Does not include developmental neurotoxicity
 - Chems. not subject to Challenge are subject to TSCA Sec. 4 follow-up testing requests

VCCEP

- Identify potential risks to children associated with certain chemical exposures
 - 23 specific chemicals found in human blood, breast milk, exhaled breath, indoor air, drinking water
 - Manufacturers asked to volunteer to test
 - Chems not tested subject to TSCA Sec. 4 follow-up testing requests

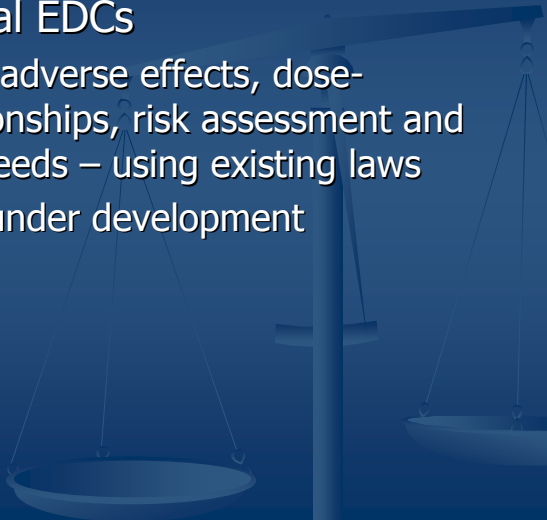
TRI PBT Reporting

- Lowered reporting thresholds for PBTs
 - PBTs identified plus doixin

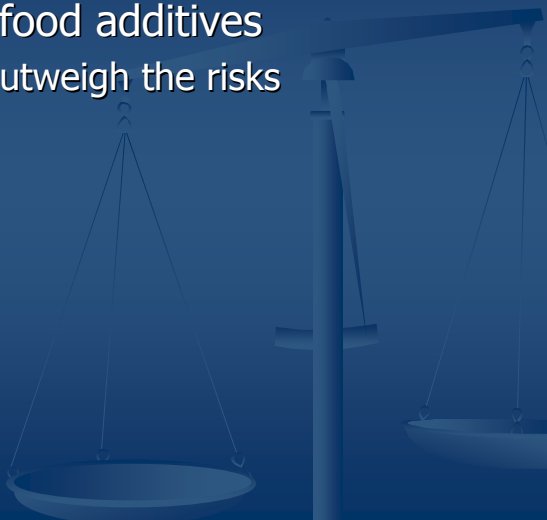
PBT Profiler

- Predicts PBT characteristics of compounds
 - Developed jointly by EPA, ACC, CCC, SOCMA and supported by Environmental Defense
 - Predicts on basis of chemical structure using data base containing over 100,000 discrete chemical substances

EPA Endocrine Disruptor Screening Program

- Identify potential EDCs
 - Also determine adverse effects, dose-response relationships, risk assessment and management needs – using existing laws
 - Protocols now under development
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FDA Approvals

- New drugs and food additives
 - Benefits must outweigh the risks
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USDA Food Safety Inspections

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- Food supply contamination screening program
 - Presence of agricultural chemicals, animal drugs, environmental contaminants

Federal Hazardous Substances Act Consumer Product Safety Commission

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- Product hazard determination
 - Labels to warn of risk
 - Bans if labeling inadequate to protect public

National Toxicology Program

- Substance evaluation using toxicology and molecular biology
 - Best science employed to prioritize, design, conduct, and interpret studies
 - NIEHS/NIH, NIOSH/CDC, NCTR/FDA primary collaborators

NIEHS

- Evaluating if exposure to certain chemicals contributes to the development of cancer or reproductive disorders

ATSDR

- Toxicological profiles of substances
 - Profiles (or draft profiles) produced for 275 priority substances found at hazardous waste sites, or requested by Department of Defense or Energy

NIOSH

- Hazardous chemical information guide (NIOSH Pocket Guide)
 - Hazard data provided for 677 compounds

International Programs

- CEPA DSL
 - List/categorize substances
 - Screen for toxicity
 - Separate process for new chemicals
 - 20,000 substances listed so far
 - Screening is underway

International Programs - Continued

- EU Reach Proposal
 - Collect data on, test, authorize new and existing chemicals
 - Industry submit data on hazards, exposure, risk associated with 30,000 substances
 - Authorization process that could restrict or ban substances deemed to pose significant risk to public health or environment
 - EC considering major changes to proposal

International Programs - Continued

- EU Interim PBT Strategy
 - Screening program establishes chemicals that are PBT and vPvB substances
 - 25 substances identified
 - 25 additional substances selected for review

International Programs - Continued

- UNECE Convention on LRT POPs Protocol
 - Risk criteria used to select Ops for ban and/or restrictions on use and/or release
 - 16 substances selected
 - 8 banned
 - 4 to be eliminated at later date
 - 4 releases restricted

International Programs - Continued

- Stockholm POPs Convention
 - Controls production, use, and/or emission of 12 POPs of "historical concern"
 - Included mechanism for considering additions to the list of POPs
 - National implementation plans due May 2006

International Programs - Continued

- UNEP Rotterdam Convention
 - Importers/exporters must exchange chemical hazard information regarding potentially hazardous chemicals
- UN Economic and Social Council
 - Harmonizes chemical hazard communication information throughout the world

International Programs - Continued

- CEC SMOC
 - Chemical selection process for identifying priority chemical pollution issues of Regional concern.
 - International HPV Program
 - Internationally harmonized hazard assessment data for 1000 HPV chemicals – more than 90 percent of global chemical production
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