



# **EPA's Chemical Assessment and Management Program UPDATE**

**Great Lakes Binational Toxics Strategy  
Stakeholder Forum**

**December 4, 2008**

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# SPP Commitments

- At the Security and Prosperity Partnership (SPP) Summit in August 2007, President Bush, Canadian Prime Minister Stephen Harper and Mexican President Felipe Calderon committed to enhance regulatory cooperation in North America
  - Canada & U.S. will work with Mexico to establish a Mexican chemical inventory and strengthened North American chemical regime.
  - Research and development on new approaches to testing and assessment.
  - Create mechanisms to share domestic scientific information and best practices for chemical assessment and management. Enhance Mexico's capacity for chemical assessment and management



# Chemicals Assessment and Management Program (ChAMP)

- ChAMP encompasses U.S. SPP commitments and possible “ChAMP enhancements” including:
  - HPV Challenge-type program for High Production Volume “inorganic” chemicals
  - Resetting the TSCA Inventory



# ChAMP

- By the end of 2012:
  - Assess and initiate needed action on the over 6,750 existing chemicals produced above 25,000 lbs/yr in the U.S.
  - Includes High Production Volume (HPV) and Moderate Production Volume (MPV) chemicals
    - Builds off of prior efforts:
      - HPV Challenge
      - Inventory Update Reporting (IUR)
      - Canadian categorization, etc.
    - Make and publicly release screening level decisions and initiate needed action

\*Based on preliminary statistics from 2006 IUR Data



# Screening Decision Process – HPV Chemicals

- Assess and prioritize HPV chemicals (1 million lbs/yr) based on available hazard/exposure information
  - HPV Challenge test data
  - IUR Exposure/use reporting
- Evaluate Risks
- Identify and initiate needed action
  - Gather/generate needed information
  - Take control measures
  - Identify as current low priority and set aside
- Document and post assessments and conclusions (Risk Based Prioritizations) on the web
- Stakeholders will soon be able to post comments and submit data electronically



# Tools to Implement Risk-Based Prioritizations (RBPs)

- Where additional info or action is needed, the options include:
  - Contact producers with request for info, informal action
  - Data from other offices, Agencies, States, Canada, EU, and OECD
  - TSCA §8(a) reporting rules (e.g., exposure, release data)
  - TSCA §5(a)(2) Significant New Use Rules (SNURs)
  - Engage with stakeholders (e.g. Design for the Environment (DfE), voluntary action, etc.)
  - TSCA §4 test rules
  - Develop/implement Challenge programs, other risk reduction actions
  - Possible creation of TSCA §5(b)(4) “risk list”
- Where identified as low-concern at this time:
  - Document initial prioritization rationale and post to web



# Screening Decision Process – MPV Chemicals

- Developing approach to assess MPV Chemicals
  - Produced or imported at quantities  $\geq 25,000$  lbs/yr and  $\leq 1$  million lbs/yr.
  - Apply available data, Canadian categorization results, and EPA Structure Activity Relationships (SAR) analysis to assess hazard and fate.
  - Basic exposure/use data are available only for MPVs produced at  $\geq 300,000$  lbs at a site
  - Use Hazard Characterizations (HCs) to identify MPVs that require follow-up, initiate actions
    - Gather additional data (exposure, testing, etc.)
    - Risk management
- Posted Hazard Based Prioritizations (HBPs) on 38 MPV chemicals.



# Meeting the SPP Goals

- 2007
  - Developed process for screening-level Hazard Characterizations (HCs) and Risk Characterizations (RCs), and Risk-Based Prioritizations (RBPs) on HPV chemicals
  - Posted HCs for over 150 chemicals
- 2008
  - Posted HCs for additional 140 chemicals
  - Posted RBPs for 151 chemicals
  - Continue developing and posting RBPs
  - Posted initial set of HBPs for 38 MPV chemicals
- 2009
  - Continue posting RBPs for HPV chemicals and significantly ramp up posting MPV HBPs



# ChAMP Enhancements

- On Sept. 24, EPA Assistant Administrator Jim Gulliford announced the Administrator's decisions on two ChAMP Program enhancements. EPA intends to:
  - Update the current Toxic Substances Control Act (TSCA) Inventory of industrial chemicals by "resetting" it to better reflect the chemicals actually in commerce in the U.S.
  - Develop a phased approach to challenge the U.S. chemical industry to develop health and safety data on inorganic HPV chemicals.
- EPA is currently engaging stakeholders on both of these efforts.



# TSCA Inventory Reset

- Current TSCA Inventory contains almost 84,000 chemicals
  - Likely that many chemicals are no longer manufactured/imported; or
  - Are produced only in low or episodic volumes
- TSCA §8(b) requires EPA to “compile, *keep current*, and publish” TSCA Inventory”
- Resetting the Inventory would give EPA and others a better understanding of which chemicals are actually in commerce.
- An accurate Inventory would allow EPA to better plan and execute its mission of protecting human health and the environment from chemicals that may present risks.
- Complements IUR reporting.



# Inventory Reset

- EPA is considering a “clean reset” which would remove chemicals no longer being manufactured or imported from the Inventory.
  - Reset could be achieved by putting the Inventory online and inviting companies to certify that they have manufactured or imported specific chemicals within a certain timeframe.
- A new chemical notice (e.g., PMN) would be needed if a company decided, at a later date, to produce a chemical no longer on the reset inventory.
- EPA would also anticipate periodic resets in the future to continue to keep the Inventory current.



# Inorganic Chemicals/IHPV

- Inorganics first included on IUR in 2006
  - Production volume only
  - No exposure data reporting until 2011
- Examples: metals & salts, ammonia & cmpds, minerals & fibers (bentonite, zeolite, asbestos, etc.), inorganic acids (HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>), etc.
- Of 750 Inorganics reported on 2006 IUR, approximately 400 - 500 are HPV



# IHPV Challenge

- EPA considering IHPV Challenge Program Mirroring HPV Challenge Design
    - Identify and work with stakeholders to develop program/process/approach
- Proposed approach would:
- Look to OECD guidance and experience on inorganics
  - Apply approaches and procedures similar to those used in HPV Challenge Program
  - Apply established EPA Guidance on inorganics assessment
  - Assess, prioritize, and initiate needed action on IHPV chemicals (2012-2014)



# Stakeholder Engagement

- EPA sought input from a wide range of partners and stakeholders
  - Series of meetings and discussions over March through June period
  - Focus meetings, webinars, pre-established conferences/meetings
  - Industry, NGOs, States and Tribes, Federal Partners
- EPA is seeking stakeholder input on the ChAMP enhancements (IHPV, reset) at a public meeting on December 8, 2008.



# Opportunities for North American Collaboration

- Parallel schedules for priority chemical assessments should allow U.S. and Canada to share/coordinate timing of data and assessments and follow-up action, where appropriate.
  - Canada's DSL Challenge has identified and given tentative dates for review of 193 high priority chemicals
  - 66 of Canada's high priorities are also EPA HPVs
  - Additional overlaps are expected among Canada's medium priority chemicals and EPA's MPVs
- EPA and Canada are exploring ways to collaborate on chemicals of mutual interest
  - Sharing data on chemicals under review
  - Monthly conference calls
  - Attendance at brainstorming workshops, etc.



# Resources

For more information:

<http://www.epa.gov/ChAMP/>