SEPA United States Environmental Protection Agency



CHEMVIEW: EPA'S WEB TOOL FOR TSCA CHEMICALS SOCIETY FOR CHEMICAL HAZARD COMMUNICATION MEETING, CHARLESTON, SC

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March 25, 2014



Agenda

- § Background
- § Purpose of ChemView
- § Content
- § Who Does ChemView Help?
- § Searching the database
- **§** Future Implementation Areas
- § Seeking Feedback





BACKGROUND

- § Increasing transparency is a key element of EPA's chemicals management program
- § Previously, EPA had multiple databases with various TSCA chemical information
 - 。 Information was difficult to find and use
- § Stakeholders indicated a strong interest in viewing EPA's TSCA "file cabinet"
- § In 2012 we made the decision to bring together information EPA has received or developed about chemicals regulated under TSCA in one place: ChemView.





PURPOSE OF CHEMVIEW

- § To improve and streamline public access to information on TSCA chemicals
- § Features of the database
 - 。 Easy to use
 - One screen: search parameters on the left; search results on the right
 - Ability to search with multiple parameters (chemical name, use, category, endpoint)
 - Summary and in-depth levels of detail on TSCA chemicals





CONTENT

- **§** ChemView reflects four key types of information:
 - Data submitted to EPA under TSCA
 - Test data
 - Health and safety studies
 - ¬ Substantial risk reports
 - **EPA-developed assessments**
 - Hazard Characterizations (HCs), Alternative Assessments, Safer Chemicals Ingredients List (SCIL), IRIS
 - 。 EPA actions
 - $\neg\,$ Rules (e.g., SNURs) and other actions
 - Manufacturing, Processing, Use and Release Data
 - Chemical Data Reporting, Toxics Release Inventory
- § Phased approach to entering data; currently ~1,500 chemicals
 - 。 EPA will add chemicals and functionality regularly



WHO DOES CHEMVIEW HELP?

- § Chemical Users EPA's target audience
 - Processors, formulators, distributors can compare available data on multiple chemicals
 - Promotes informed decision making and safer chemical choices by chemical user community
- § Additional Users
 - Risk Assessors
 - Ready access to publicly available screening level information, as well as source documents
 - 。 Risk Communicators
 - At a glance results on the information EPA has on TSCA chemicals
 - Data provided to EPA on health/environmental effects; EPA assessments of chemicals (e.g., HCs, alternative assessments); regulatory information





Peint

First layer of results include:

Quick view of all results under one type of endpoint

Study Typ	e Study Results	Type of Testing Submitter	Testing Other	Year Study Performed	Ouration of Study	Number of Organisms per Group	Test Substance Purity/Composition	Doses/Concentration	Results based on Critical Effect	Expose Period
Acute Taxioity te Mysid Shrimp- Flow Through	96-h LCSD = 24,75 mg/L (+ 24-hour old mysids); 96-h LCSD = 26.65 mg/L (3-4 day old mysids); NO	Required Test Rule Testing	40 CFR 797.1920; SSGs protocolt "1.2- Dichloropropane: Acete Toxicity to Mysid Shrimp 8-wsideosis ba	November 9. 1988	96 haurs	40-concentration; 20-age group I-: 24 hours old or 2-4 days old)	93,9%	0, 5.5, 10.8, 18, 20, 50 mg/L (neminal): 0, 16, 4, 92, 6, 89, 10, 88, 18, 42, or 26, 65 mg/L (newspored)	The concentration calculated to cause death of 50% of the mysid population was 24.79 mg/L124-hours	96 hauri
Aquite Takietty te Algas- class Instan	NCBC = 18 mg/L BC = Not determined d	Required Test Rule Testing	40 CFR 797.1050: Brwyrannestal Effacts Test Guidelwes Subpart B. Section 797.1050	(uly 8, 1969	14 days (5 days expessive + 1 days recovery)	18 flasks / concentration (3 flasks / concentration/time Spoint): initial concentration = 77,000 cells in	99.9% active ingredient	8, 18, 18, 32, 56, 100 mg/L (neminal)	The test substance was not toxic to algae at 10 mg/L. At higher concentrations, it was not possible	5 days
Azuta Toxicity te Algae- close avatera	NDBC = 1000 mg/L, EC = Nat determined d	Required Test Role Testing	40 CPR 787.108D; Environmental Effects Test Guidelines Subpart B. Section 797.1050	june 17, 1960	14 daya (5 daya exposure - : days recovery)	18 flasks/concentration (X flasks/concentration/time Spointk initial concentration = 10,000 cells/m	00.0% active ingredient	0, 100, 180, 120, 560, 3000 mg, L trominal	The test substance was not toxic to algae.	8 days

Link to full source document

Second layer of results include:

Chemical information

Short summary and description by effect, endpoint, and testing

submission

Chemica	Fest Rule Data
Chemica	ame : 1,2-Dichloropropane
CAS Nun	r : 78-87-5
Federal F	ister Citation : 69FR22402; 51FR32079; 52FR37138;
Code Fee	al Regulation : 40 CFR 799.1550; 40 CFR 799.5115;
Ecotoxic	
 Act 	aquatic toxicity
	Study Type : Acute Toxicity to Mysid Shrimp- Flow Through
	Type of Testing Submitted : Required Test Rule Testing
	Testing Other : 40 CFR 797.1930; ESE's protocol: "1,2-Dichloropropane: Acute Toxicity to Mysid Shrimp (Hysidopsis bahia) under Flow-Through
	Conditions,"
	Good Lab Practices
	• Yes
	year Study Performed . November 8, 1988
	Was the Study
	Measured
	Duration of Study : 96 hours
	species
	Mysid strimp (Mysidopsis bana)
	Number of Organisms per droup : 40/concentration; 20/age group (< 24 hours old or 3: 4 days old)
	rest substance many/Lomposition . 99.9%
	Doses/Concentrations 10, 6.5, 10, 6, 16, 50, 50 mg/c mominate, 0.16, 4.92, 6.69, 10, 65, 16, 42, 07, 20, 65 mg/c (measured)
	Wistor
	- Hate
	Assults based on Citical Effect - The concentration calculated to cause death of 50% of the music booulation was 24.79 mg/L (24-hours old) or > 26.
	mo/L (3-4 days old). The test substance was not toxic to shrimp at 4.92 mo/L.
	Study Results : 96-h LC50 = 24.79 ma/L (< 24-hour old mysids); 96-h LC50 > 26.65 mo/L (3-4 day old mysids); NOEL = 4.92 mo/L 3-4 day old mys
	96-b1050 > 26.65 mail: NOEI = 4.92 mail:

ChemView Highlights	40-8867156
	THE DOW CHEMICAL COMPANY
	November 17, 1988
Source document	TSCA Document Processing Center (TS-790) Office of Toxic Substances Environmental Protection Agency 401 M Street, SW; Room L-100 Washington, DC 20460
	FINAL STUDY REPORTS 1,2-DICHLOROPROPANE(CAS REGISTRY NO. 78-87-5) 40 CFR 799.1550
	Dear Sir or Madam:
	As required by 40 CFR 799.5 and 40 CFR 799.1550, we are herewith submitting final study reports for the following test effects:
	 Daphnid: Chronic Toxicity Mysid Shrimp: Acute Toxicity Algae: Acute Toxicity to Diatoms Algae: Acute toxicity to Selenastrum capricornutum Neurotoxicity
	Please call if you have questions.
	Very truly yours, Kobert L. Hagerman Research Associate Regulatory Compliance Health and Environmental Sciences 1803 Building
	(517) 636-6835
	cc: Lynn Marcus, TSCA Docket Office (TS-793)

Example of USE selection with across the board results – Solvent

ChemView

Use this database to get information on chemical health and safety data received by EPA and EPA's assessments and regulatory actions for specific chemicals under the Toxic Substances Control Act (TSCA). ChemView contains no confidential business information (CBI).

If you do not receive results for a particular chemical, it does not mean EPA does not have information on that chemical, the data may not be posted yet but will be available in the future as EPA continues to populate the database.

- · Learn more and find additional information about EPA's offorts to manage existing chamicals
- · Read the ChemWew User's Guide
- · Please give us your feedback so we can continuously improve ChemView

	Show 100	• entries		3	iearch:	
alect Chemical Search Criteria and desired Dutput Selections	Structure	Chemical Name/ CAS# 0	Data Submitted to EPA	EPA Assessments	EPA Actions	Manufacturing, Processing, Use or Release
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Chemical Information		+ 1-(3-methoxypropoxylpropan-1-ol 34590-54-8		0		
Dear Dremoal Information	~	+ 1,2-Propanediol 57-55-0				
Chemical Name or CAS Number	-ul	+ hexan-2-one				
Enter whill as partial chemical name	- Stock	391-78-0				
Mraadu calactad:	J.	= 2-Propanol 57-63-0				
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Annexed 557-55-6 Annexed 557-78-6 Jse Select a use Already selected: Annexed Salare Chemical Group		Output Categories:				
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Select a chemical group		Output Categories: Data Submitted to EPA: These are the studies submitted by Inc	lustry			
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Annexed Stor-BI-4 Annexed Stor-BI-4 Select a use Select a use Annexed Store Chemical Group Select a chemical group Select a chemical category Select a chemical category Select a chemical endpoint Select a chemi		Output Categories: Data Submitted to EPA. These are the studies submitted by Inc. EPA Accessments: These reflect EPA evaluations EPA Actions: These are regulatory or non-regulatory based on an assessment of the chemic assessment is based on data and/or as of the chemical	lustry actions af. The n analog			

Example of USE (Solvent) and Endpoint selection for developmental/ reproductive selection with across the board results

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- · Please give us your feedback so we can continuously improve ChemView

Select Search Criteria:	Show 100		antrios		54 C	auch	
Select Chemical Search Criteria and desired Output Selections.	Structure	Chemical Name/ CAS#	entries	Data Submitted to	EPA Assessments	EPA Actions	Manufacturing, Processing,
			+	EPA			Use or Release
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Chemical Information		- Z-Propanol					
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eract state with contains							
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Show Output Selection							

FUTURE IMPLEMENTATION AREAS

- § Add content
- § Enhance search capabilities for specific audiences
- § Enhance scope through tabs to related chemical information (EPA, Federal, International)
- § Continue outreach and solicit feedback
- Infrastructure enhancements
 One EPA portal for chemical safety.



SEEKING FEEDBACK

- § Planned survey to seek feedback from users later this Spring.
- § Comment feature built into the web site. EPA encourages comments/suggestions for improvements.

www.epa.gov/chemview

Thank you!

