United States Environmental Protection Agency

ChemView: EPA's Web Tool for TSCA Chemicals

2014 National Training Conference on the Toxics Release Inventory, Arlington, VA

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| May 7, 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
    - 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

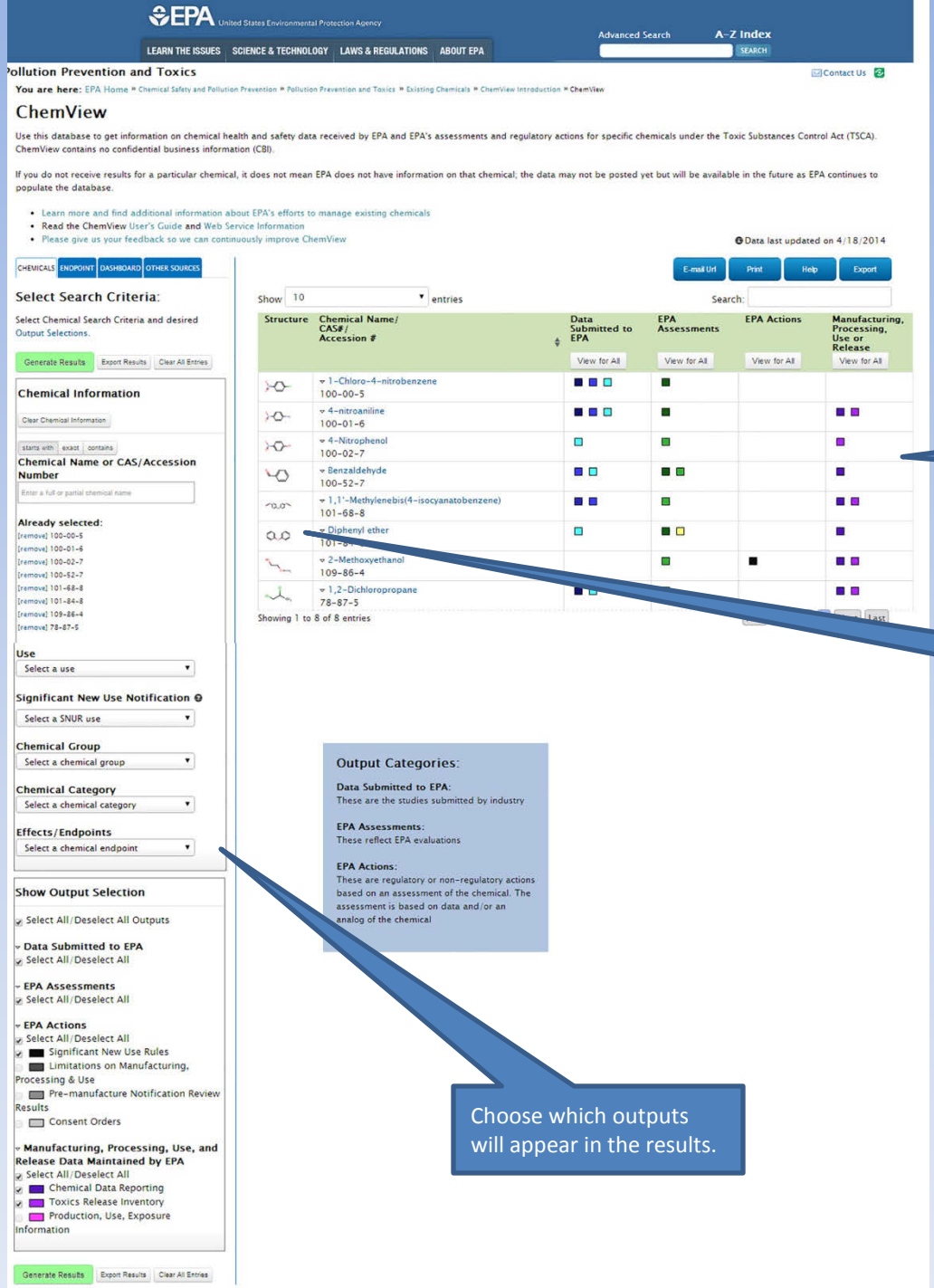
Search Criteria

Note: These are “and” criteria

Chemical groups such as Design for Environment: Safer Chemical Ingredient List

Chemical categories such as anilines or cobalt compounds

Searches by Use or a Significant New Use



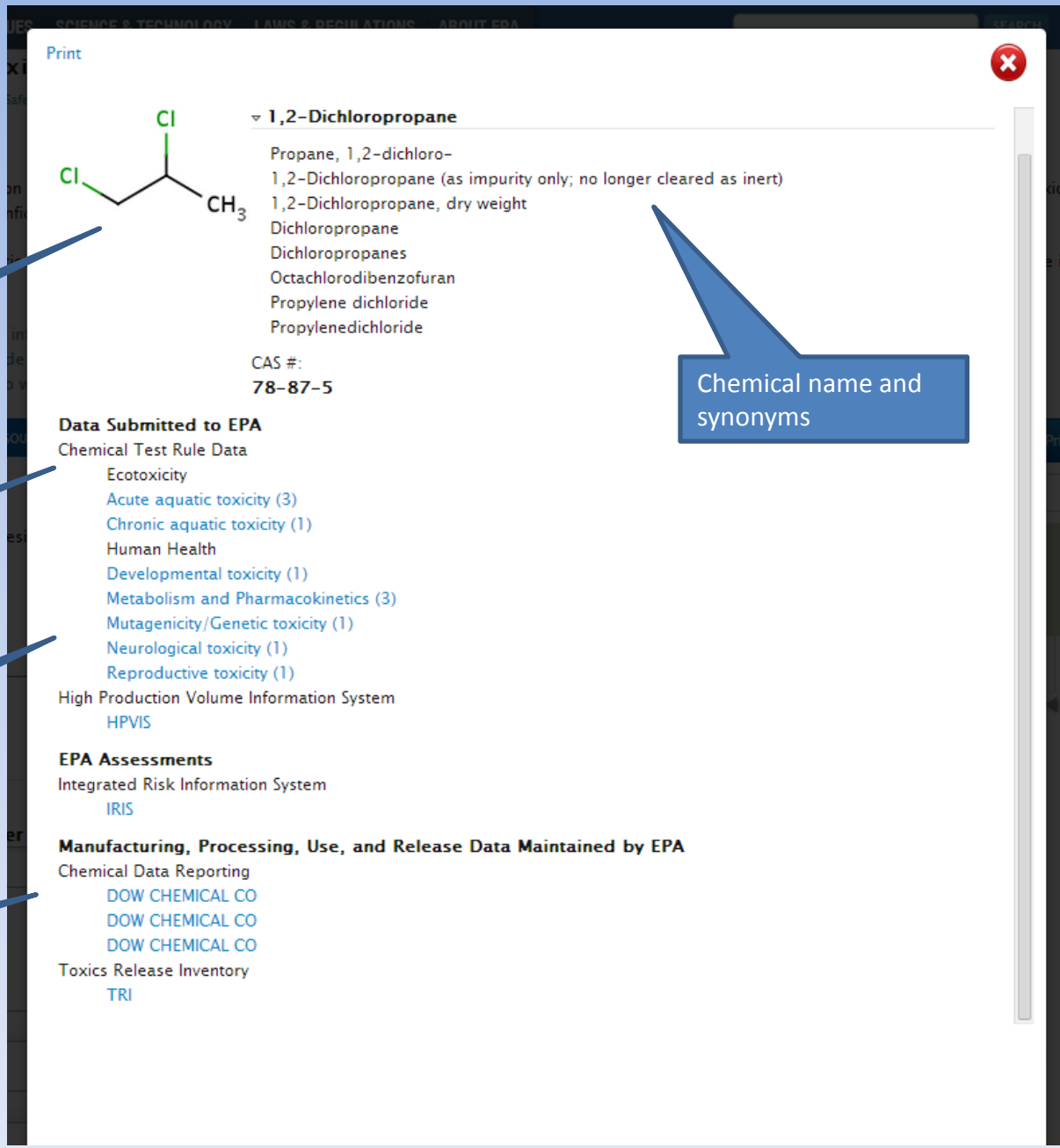
Results are color-coded against the selections in the Output section.

Thumbnail of chemical structure is displayed.

Choose which outputs will appear in the results.

ChemView Highlights

Chemical “home page” describes available info



Structure

Output type

Effects and number of endpoint test submissions

Information from other agency collections, such as TRI and CDR

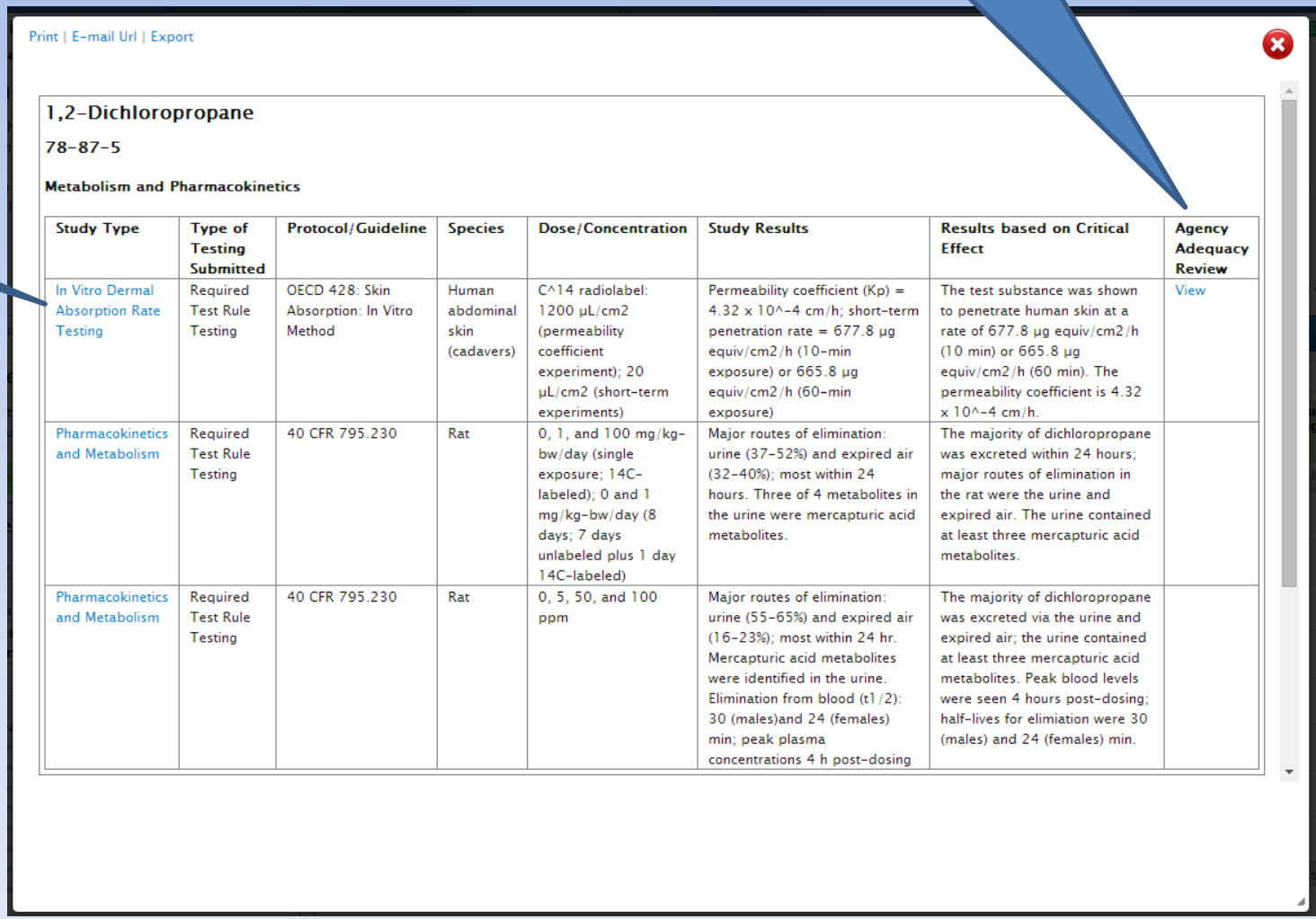
Chemical name and synonyms

ChemView Highlights

First layer of results include:

Quick view of all results under one type of endpoint

Documentation may be available on the assessment of the chemical's testing



Print | E-mail Url | Export

1,2-Dichloropropane

78-87-5

Metabolism and Pharmacokinetics

Study Type	Type of Testing Submitted	Protocol/Guideline	Species	Dose/Concentration	Study Results	Results based on Critical Effect	Agency Adequacy Review
In Vitro Dermal Absorption Rate Testing	Required Test Rule Testing	OECD 428: Skin Absorption: In Vitro Method	Human abdominal skin (cadavers)	C^14 radiolabel: 1200 µL/cm2 (permeability coefficient experiment); 20 µL/cm2 (short-term experiments)	Permeability coefficient (Kp) = 4.32 x 10^-4 cm/h; short-term penetration rate = 677.8 µg equiv/cm2/h (10-min exposure) or 665.8 µg equiv/cm2/h (60-min exposure)	The test substance was shown to penetrate human skin at a rate of 677.8 µg equiv/cm2/h (10 min) or 665.8 µg equiv/cm2/h (60 min). The permeability coefficient is 4.32 x 10^-4 cm/h.	View
Pharmacokinetics and Metabolism	Required Test Rule Testing	40 CFR 795.230	Rat	0, 1, and 100 mg/kg-bw/day (single exposure; 14C-labeled); 0 and 1 mg/kg-bw/day (8 days; 7 days unlabeled plus 1 day 14C-labeled)	Major routes of elimination: urine (37-52%) and expired air (32-40%); most within 24 hours. Three of 4 metabolites in the urine were mercapturic acid metabolites.	The majority of dichloropropane was excreted within 24 hours; major routes of elimination in the rat were the urine and expired air. The urine contained at least three mercapturic acid metabolites.	
Pharmacokinetics and Metabolism	Required Test Rule Testing	40 CFR 795.230	Rat	0, 5, 50, and 100 ppm	Major routes of elimination: urine (55-65%) and expired air (16-23%); most within 24 hr. Mercapturic acid metabolites were identified in the urine. Elimination from blood (t1/2): 30 (males)and 24 (females) min; peak plasma concentrations 4 h post-dosing	The majority of dichloropropane was excreted via the urine and expired air; the urine contained at least three mercapturic acid metabolites. Peak blood levels were seen 4 hours post-dosing; half-lives for elimiation were 30 (males) and 24 (females) min.	

ChemView Highlights

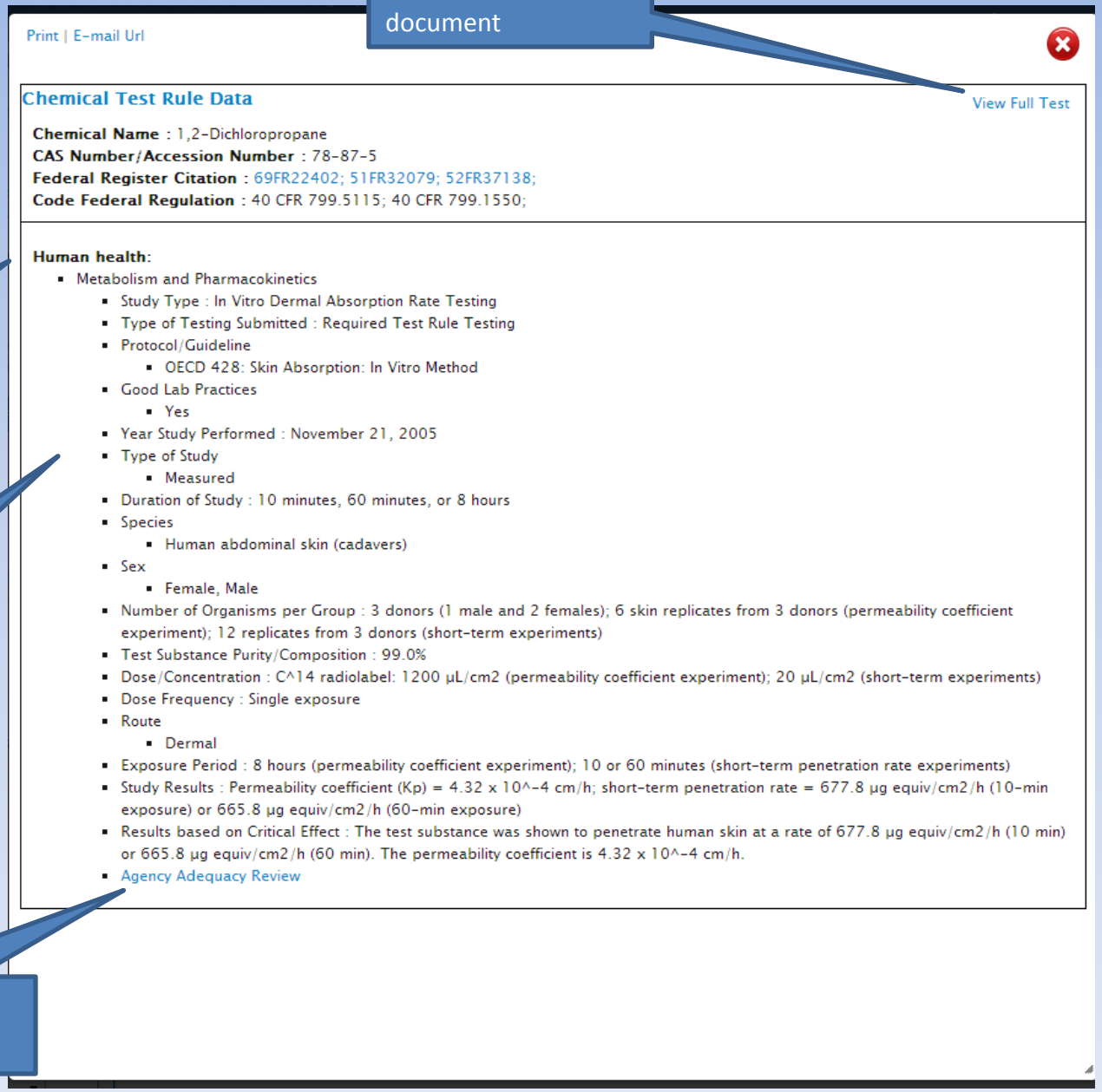
Second layer of results include:

Chemical information

Short summary and description by effect, endpoint, and testing submission

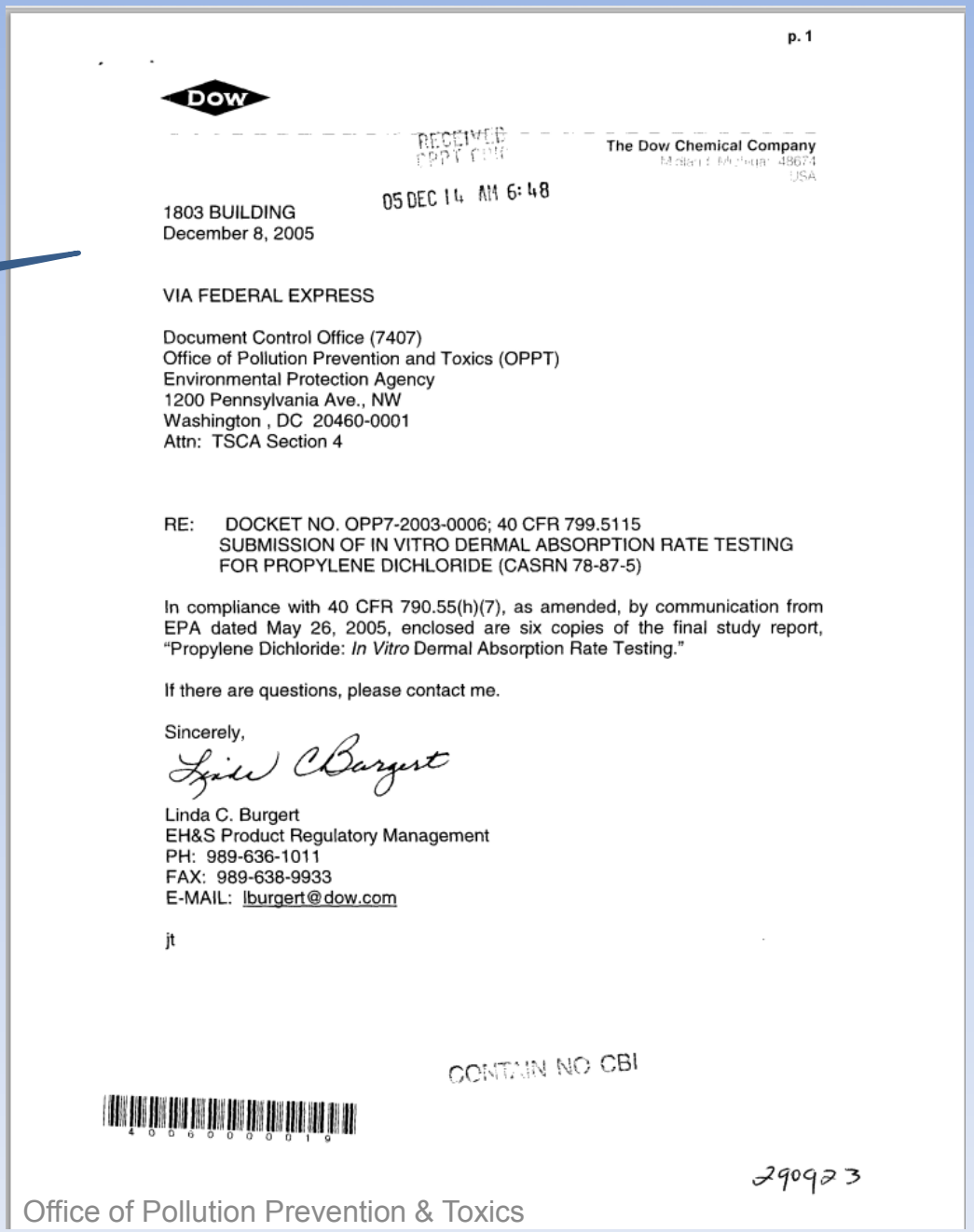
Chemical testing adequacy review

Link to full source document



ChemView Highlights

Source Document



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DOW

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OPPT CBIC

The Dow Chemical Company
Midland, Michigan 48674
USA

05 DEC 14 AM 6:48

1803 BUILDING
December 8, 2005

VIA FEDERAL EXPRESS

Document Control Office (7407)
Office of Pollution Prevention and Toxics (OPPT)
Environmental Protection Agency
1200 Pennsylvania Ave., NW
Washington , DC 20460-0001
Attn: TSCA Section 4

RE: DOCKET NO. OPP7-2003-0006; 40 CFR 799.5115
SUBMISSION OF IN VITRO DERMAL ABSORPTION RATE TESTING
FOR PROPYLENE DICHLORIDE (CASRN 78-87-5)

In compliance with 40 CFR 790.55(h)(7), as amended, by communication from EPA dated May 26, 2005, enclosed are six copies of the final study report, "Propylene Dichloride: *In Vitro* Dermal Absorption Rate Testing."

If there are questions, please contact me.

Sincerely,

Linda C. Burgert
EH&S Product Regulatory Management
PH: 989-636-1011
FAX: 989-638-9933
E-MAIL: lburgert@dow.com

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CONTAIN NO CBI

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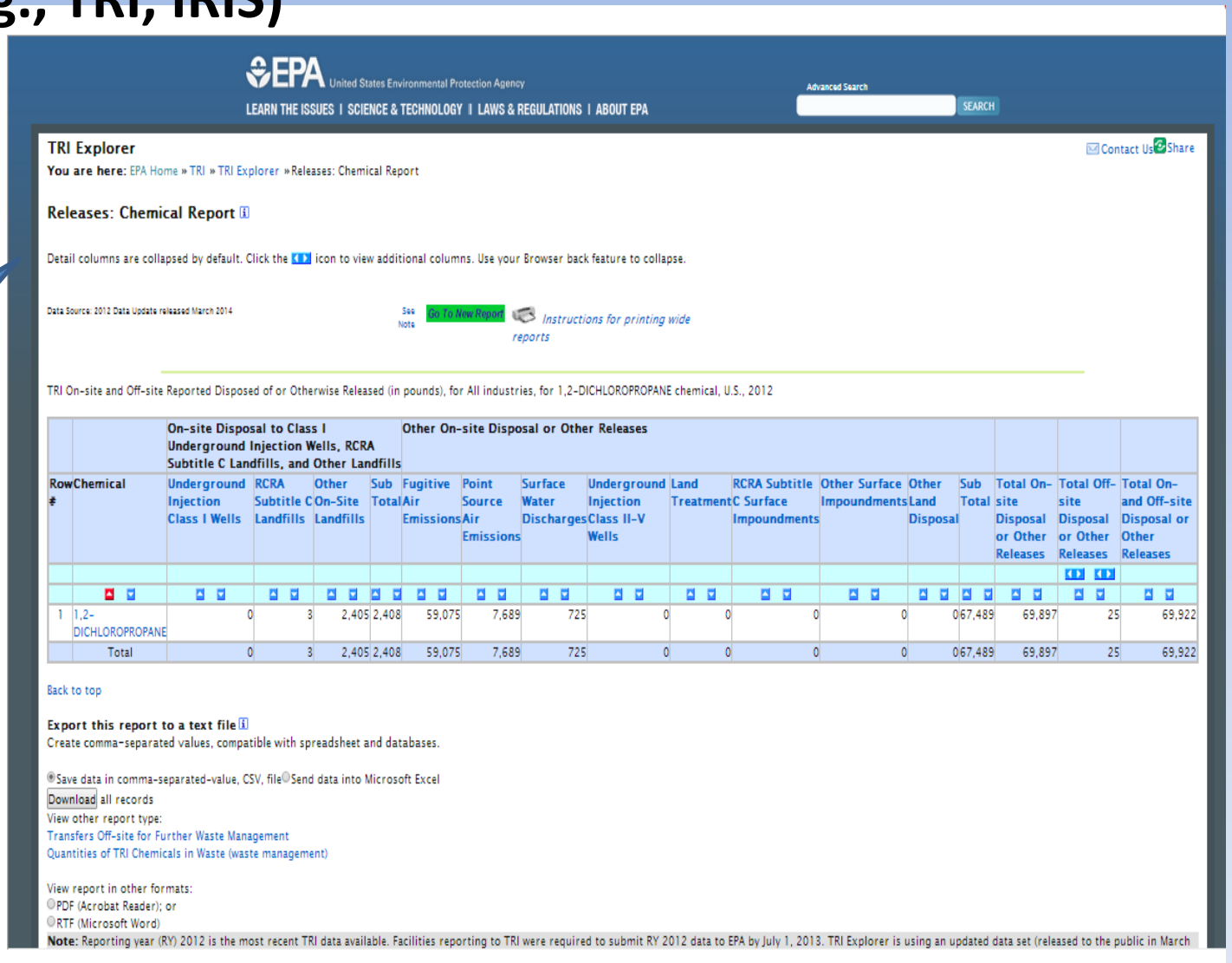
Incorporating other Agency data collections (e.g., TRI, IRIS)

Data is directly pulled in from the originating source collection.

TRI provides current disposal and release data, enhancing the robust view of chemical information found in ChemView.



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TRI Explorer

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Releases: Chemical Report

Detail columns are collapsed by default. Click the icon to view additional columns. Use your Browser back feature to collapse.

Data Source: 2012 Data Update released March 2014

See Note Go To New Report Instructions for printing wide reports

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), for All industries, for 1,2-DICHLOROPROPANE chemical, U.S., 2012

		On-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills				Other On-site Disposal or Other Releases										
Row #	Chemical	Underground Injection Class I Wells	RCRA Subtitle C Landfills	Other On-Site Landfills	Sub Total	Fugitive Air Emissions	Point Source Air Emissions	Surface Water Discharges	Underground Injection Class II-V Wells	Land Treatment	RCRA Subtitle C Surface Impoundments	Other Surface Impoundments	Other Land Disposal	Sub Total	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	1,2-DICHLOROPROPANE	0	3	2,405	2,408	59,075	7,689	725	0	0	0	0	0	67,489	69,897	25	69,922
	Total	0	3	2,405	2,408	59,075	7,689	725	0	0	0	0	0	67,489	69,897	25	69,922

Back to top

Export this report to a text file

Create comma-separated values, compatible with spreadsheet and databases.

Save data in comma-separated-value, CSV, file Send data into Microsoft Excel

Download all records

View other report type:

Transfers Off-site for Further Waste Management

Quantities of TRI Chemicals in Waste (waste management)

View report in other formats:

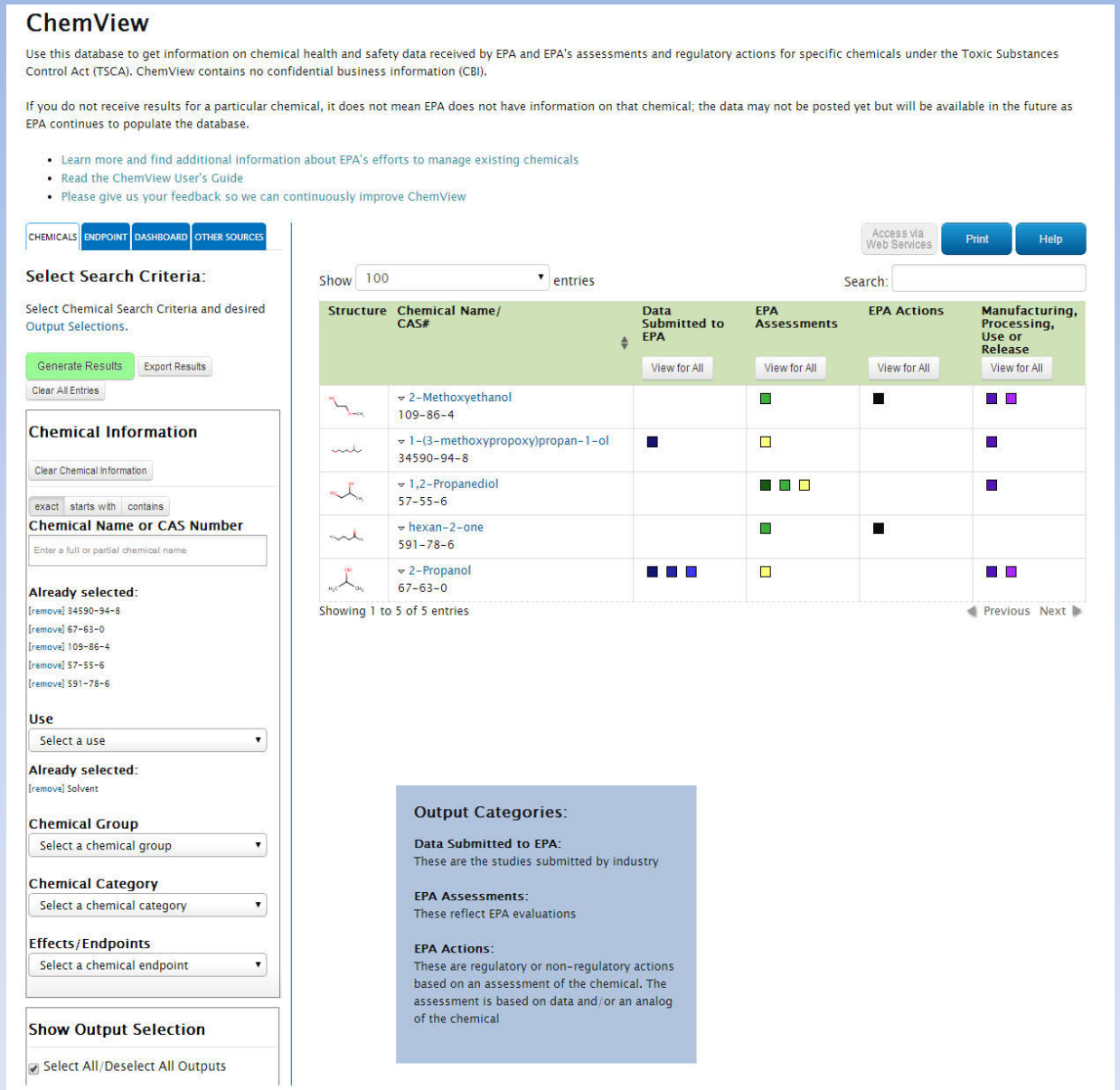
PDF (Acrobat Reader); or

RTF (Microsoft Word)

Note: Reporting year (RY) 2012 is the most recent TRI data available. Facilities reporting to TRI were required to submit RY 2012 data to EPA by July 1, 2013. TRI Explorer is using an updated data set (released to the public in March

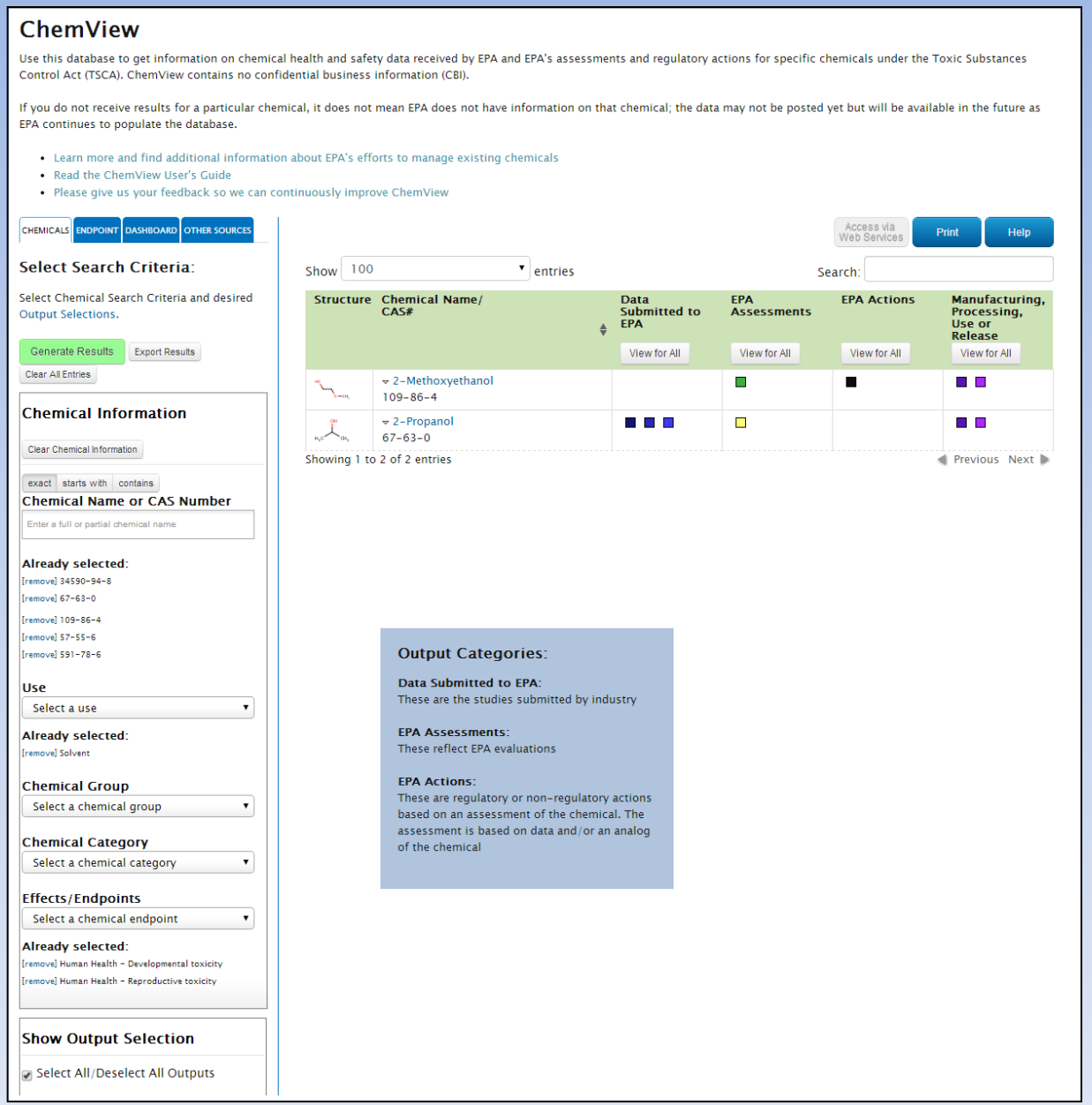
ChemView Highlights

Example of USE selection with across the board results – Solvent

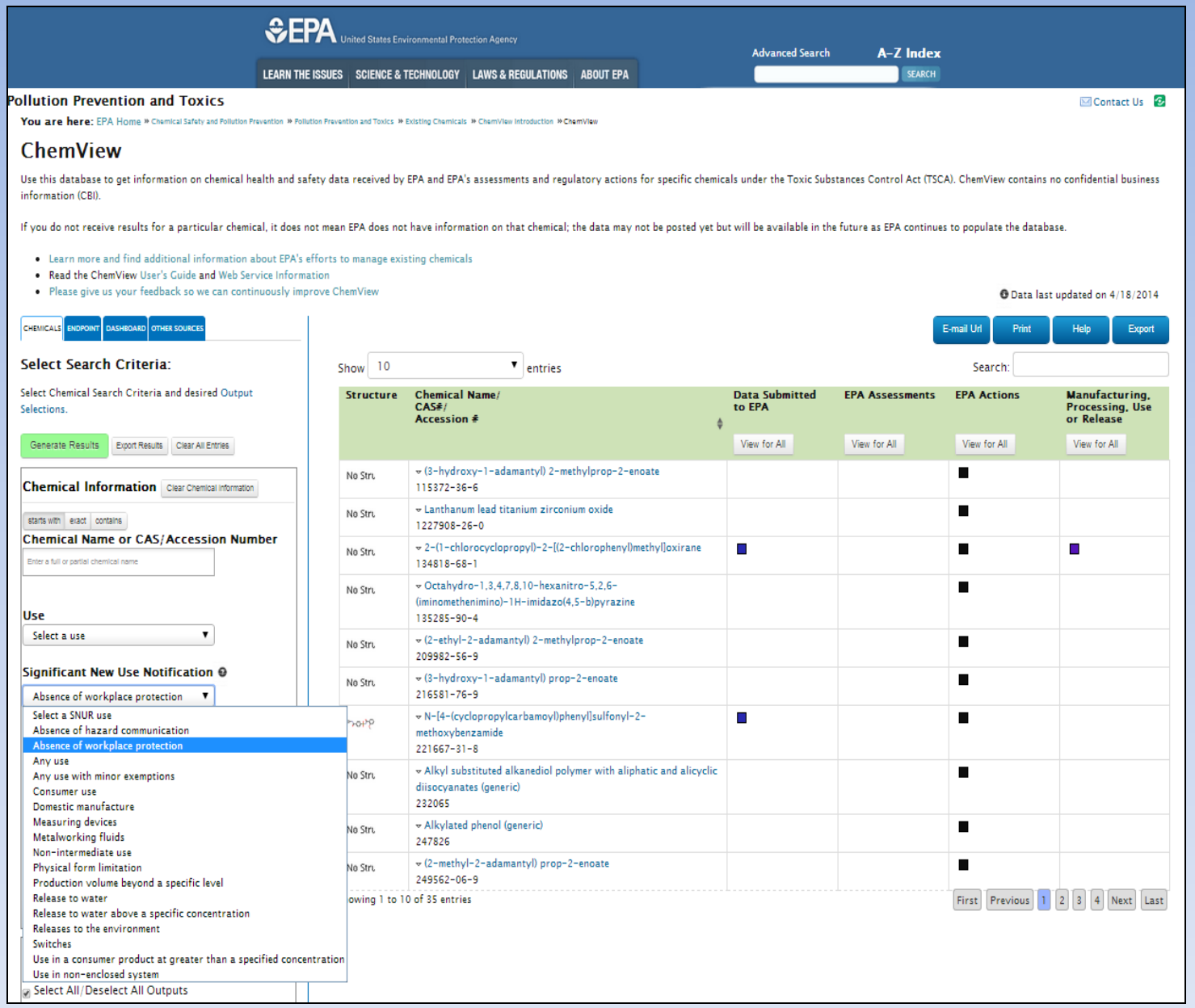


ChemView Highlights

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



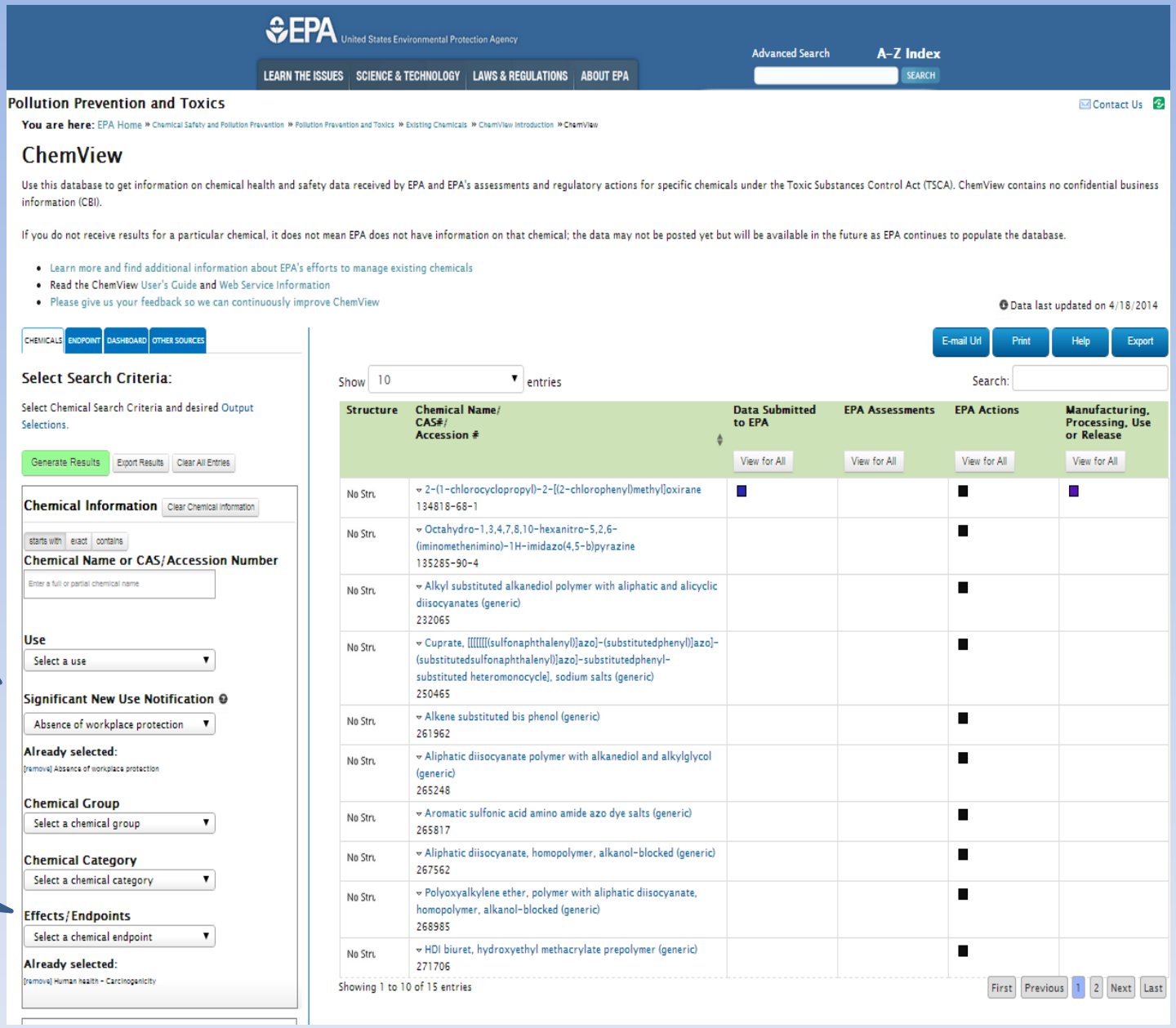
Example of SIGNIFICANT NEW USE (Absence of workplace protection) selection with across the board results



Example of cross referencing output criteria for specific results

Significant New Use – Absence of workplace protection

Effect/ Endpoints – Carcinogenicity



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!