

## The ChemView User's Guide includes:

- Selecting Chemical Search Criteria
- Selecting Outputs
- Generating Results
- Viewing Results
- Appendix of Specific Sources

The screenshot displays the ChemView web application interface. At the top, the EPA logo and navigation menu are visible. The main content area is titled "Pollution Prevention and Toxics" and "ChemView". It includes a search bar, a "Generate Results" button, and a "Show 10 entries" dropdown. The interface also features a "Data last updated on 8/26/2015" notice and a "Troubleshooting Tip" box.

**EPA** United States Environmental Protection Agency

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## 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 efforts to manage existing chemicals](#)
- [Read the ChemView User's Guide and Web Service Information](#)
- To continuously improve ChemView, [Contact Us](#) with your feedback or take a [Survey](#). **New!**

**Data last updated on 8/26/2015**

CHEMICALS **ENDPOINT** DASHBOARD OTHER SOURCES

### Select Search Criteria:

Select Chemical Search Criteria and desired [Output Selections](#).

**Generate Results** [Export Results](#) [Clear All Entries](#)

Show **10** entries

Showing 0 to 0 of 0 entries

[E-mail Url](#) [Print](#) [Help](#) [Export](#)

Search:

[First](#) [Previous](#) [Next](#) [Last](#)

**Note:** This User Guide accompanies ChemView release version 1.3. The text in **bright blue font** indicates functionality or information that is new or has changed since release version 1.2.

**Troubleshooting Tip:** If icons are wrapping, right-mouse-click on the Desktop and change the screen resolution to fix the application display.

# ChemView User Interface Guide

## CHEMICALS Tab

The Chemicals tab is shown below. The labels A-E correspond to the instructions on the following page.

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Data last updated on 8/26/2015

CHEMICALS **ENDPOINT** DASHBOARD OTHER SOURCES

### Select Search Criteria:

Select Chemical Search Criteria and desired Output Selections.

**Generate Results** Export Results Clear All Entries

#### Chemical Information

Clear Chemical Information

starts with exact contains

**Chemical name or Chemical Identifier** **A**

Enter a full or partial chemical name

**Use** **B**

Select a use

**Significant New Use Notification**

Select a SNUR use

**Chemical Group**

Select a chemical group

**Chemical Category**

Select a chemical category

**Effects/Endpoints**

Select a chemical endpoint

#### Show Output Selection

Select All/Deselect All Outputs

**Data Submitted to EPA** **C**

Select All/Deselect All

**EPA Assessments**

Select All/Deselect All

**EPA Actions**

Select All/Deselect All

**Manufacturing, Processing, Use, and Release**

**Data Maintained by EPA**

Select All/Deselect All

**Generate Results** Export Results Clear All Entries

**Output Categories:**

**Data Submitted to EPA:**  
These are the studies submitted by industry

**EPA Assessments:**  
These reflect EPA evaluations

**EPA Actions:**  
These are regulatory or non-regulatory actions based on an assessment of the chemical. The assessment is based on data and/or an analog of the chemical

Show 10 entries

Showing 0 to 0 of 0 entries

**D** E-mail Url Print Help Export

Search:

First Previous Next Last

**E**

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**To search for chemical information on the CHEMICALS tab, follow these steps:**

**Step 1. Select Search Criteria.** In the **Select Search Criteria** section, select search parameters, including Chemical Information and Outputs.

**Chemical Search Criteria.** The search criteria in the **Chemical Information** section (A and B) are processed using “AND” logic. The user can select multiple items for each criterion; these are processed as “OR”.

**A. Chemical Name or Chemical Identifier** – Click above the field name to select “starts with”, “exact”, or “contains”. Then type at least 3 characters in the field. The dropdown list will autocomplete with valid options. If the user types in additional characters, the options will be further refined. The user can type in and select a chemical name, CAS Number, Accession Number, PMN, or EPA Identification Number.

**Notes:** The default setting is “starts with”. If the dropdown menu does not contain an expected item (i.e., chemical name, CAS Number), select a different filter if needed.

Any chemicals selected as search parameters on one tab (e.g., Chemicals) will carry over if the user clicks on another tab (e.g., Endpoint). If the user has selected chemicals on the Chemicals or Endpoint tab and then clicks on the Other Sources tab, the default output selection is all sources.

**B. Use, Significant New Use Notification, Chemical Group, Chemical Category, Effects/Endpoints** – In each field, the user can select one or more items from the dropdown list. These fields are discussed further on pages 4-5 of this guide.

**Notes:** Each item selected in the Chemical Information section will be listed under the relevant criterion as “Already selected”. To remove a selection, click the “remove” link beside the item. To remove all selections in the Chemical Information section, click the “Clear Chemical Information” button next to the Chemical Information heading.

**C. Output Selections.** In the **Show Output Selection** section, click the checkbox beside each source you would like to appear in the results.

To expand the list of sources under a source type, click the triangle toggle button next to the source type name. Click again to collapse the list.

**Select All/Deselect All Outputs** – To select every available data source, click the “Select All/Deselect All Outputs” checkbox. To deselect the sources, click the checkbox again.

**Select All/Deselect All** – To select every available source within a source type, click the “Select All/Deselect All” checkbox for that type. To deselect the sources, click the checkbox again.

**Notes:** If there is no data in a source, the checkbox for the source will be unavailable (i.e., will not allow a mouse click).

The “Select All/Deselect All” options function the same whether the source lists are expanded or collapsed.

**Step 2. Generate Results or Export Results.** After selecting search criteria, click “Generate Results” to display results in the right pane of the window or click “Export Results” to export the results to an Excel file. To remove all selections and reset to defaults, click the “Clear All Entries” button. There are two sets of these buttons, at the top and bottom of the left pane; the user can click either set. Additional information about generated results starts on page 8 of this guide. Results display based on the chemicals.

**Note:** If you click “Export Results” and no action occurs, add “Java.epa.gov/chemview” to your trusted websites in Internet Explorer. To do so, select “Tools”, then “Internet Options”, and finally the “Security” tab. Click “Trusted sites” then click the “Sites” button to add the ChemView link.

**D. Other.** Additional functionality is available by clicking the buttons at the top right of the screen.

“E-mail Url” – Enables the user to send an e-mail containing a URL that captures the current search criteria and results.

“Print” – After the user selects search criteria and clicks Generate Results, clicking this button will create a PDF file that contains the information displayed on the page of results. The user can open or save the file.

“Help” – Opens the version of the user guide that corresponds to the current release of ChemView.

“Export” – Enables the user to export lists to Excel. Click Export, then click the hyperlinked name of the list to export. **Export lists** are: Chemical, Use, SNUR Use, Category, and Endpoint. **Export Chemical Group lists** are: SCIL, TSCA § 12(b) Export Notification Chemicals, Work Plan. The user can open or save the file.

**E. Collapse button.** Click the arrow to collapse and expand the Select Search Criteria section.

### Select Chemical Search Criteria, continued:

**Use** – Select one or more items from the dropdown list, e.g., Pesticide, Refrigerant, Solvent.

**Significant New Use Notification** – Select one or more items from the dropdown list.

**Chemical Group** – Select from the dropdown list: Safer Chemical Ingredients List, [TSCA § 12\(b\) Export Notification Chemicals List](#), or Work plan chemicals. Another window will open with a checklist of options. An example is shown below. To select specific categories and/or chemicals, click in the checkboxes. To add the whole group, click the “Select All” button. When finished, click the “Add Selections” button. [To export the group list, click the “Export” link at the top.](#)

Print Export

Work plan chemicals

**Categories**

- Antimony and Antimony Compounds
- Arsenic and Arsenic Compounds
- Asbestos and Asbestos like Fibers
- Cadmium and Cadmium Compounds
- Chromium and Chromium Compounds
- Cobalt and Cobalt Compounds
- Cyanide Compounds (Limited to dissociable compounds)
- Lead and Lead Compounds
- Mercury and Mercury Compounds
- Nickel and Nickel Compounds
- Polychlorinated naphthalene

**Chemicals**

- 1,1,2-Trichloroethane, [79-00-5]
- 1,1-Dichloroethane, [75-34-3]
- 1,2,4,5-Tetrachlorobenzene, [95-94-3]
- 1,2-Bis(2,4,6-tribromophenoxy)ethane, [37853-59-1]
- 1,2-Dichlorobenzene, [95-50-1]
- 1,2-Dichloroethane, [107-06-2]
- 1,2-Dichloropropane, [78-87-5]

Select All Add Selections Clear Entries

**Chemical Category** – Select one or more items from the dropdown list. The items in the Chemical Category dropdown list include compounds (e.g., Lead and Lead Compounds) as well as categories (e.g., Diesters Category).

**Select Chemical Search Criteria, continued:**

**Effects/Endpoints** – Select from the dropdown menu: Ecotoxicity, Environmental fate, Human health, Physical-Chemical properties. Another window will open with a checklist of options. An example is shown below. To select items individually, click in the checkboxes. To select all, click the “Select All” button. When finished, click the “Add Selections” button.

Print

**Endpoints**  
Human health

- Acute toxicity
- Carcinogenicity
- Cardiac sensitization
- Dermal irritation
- Developmental toxicity
- Eye irritation
- Immunotoxicity
- Lung toxicity
- Metabolism and Pharmacokinetics
- Mutagenicity/Genetic toxicity
- Neurological toxicity
- Other health effect study
- Repeated dose toxicity
- Reproductive toxicity
- Respiratory sensitization
- Skin sensitization
- Systemic toxicity

**Note:** If a user selects “Human Health” from the “Effects/Endpoints” dropdown, the screen will display several check boxes. If a user selects the “Reproductive Toxicity” check box, the “Developmental Toxicity” check box will automatically be populated. Similarly, if a user selects the “Developmental Toxicity” check box first, the “Reproductive Toxicity” check box will then automatically be populated.

This is a list of potential searchable endpoints and does not reflect the endpoints for a particular chemical.

Select All   Add Selections   Clear Entries

# ChemView User Interface Guide

## ENDPOINT Tab Search Overview

The Endpoint tab, shown below, displays search results by the source that submitted the endpoint test. The steps to select search criteria and generate results are similar to the steps used on the Chemicals tab. [The Endpoint tab also has the "Case Number or DCN" field, which enables users to search by those parameters.](#)

The screenshot shows the EPA ChemView web interface. At the top, there is the EPA logo and navigation tabs for 'LEARN THE ISSUES', 'SCIENCE & TECHNOLOGY', 'LAWS & REGULATIONS', and 'ABOUT EPA'. A search bar is located in the top right corner. The main heading is 'Pollution Prevention and Toxics', with a breadcrumb trail: 'You are here: EPA Home » Chemical Safety and Pollution Prevention » Pollution Prevention and Toxics » Existing Chemicals » ChemView Introduction » ChemView'. Below this is the 'ChemView' title and a brief description of the database. A list of links includes 'Learn more and find additional information about EPA's efforts to manage existing chemicals', 'Read the ChemView User's Guide and Web Service Information', and 'To continuously improve ChemView, Contact Us with your feedback or take a Survey. (New!)'. A note states 'Data last updated on 8/26/2015'. The interface is divided into a left sidebar for search criteria and a main content area. The sidebar includes sections for 'Select Search Criteria:', 'Chemical Information', 'Effects/Endpoints', 'Chemical name or Chemical Identifier', 'Case Number or DCN', 'Use', 'Significant New Use Notification', 'Chemical Group', 'Chemical Category', and 'Show Output Selection'. The 'Show Output Selection' section has checkboxes for 'Data Submitted to EPA', 'EPA Assessments', 'EPA Actions', and 'Manufacturing, Processing, Use, and Release Data Maintained by EPA'. The main content area shows 'Show 10 entries' and 'Showing 0 to 0 of 0 entries'. On the right, there are buttons for 'E-mail Url', 'Print', 'Help', and 'Export', along with a search bar and pagination controls (First, Previous, Next, Last).

## Other Sources Tab

The Other Sources tab, shown below, enables users to search chemicals in sources outside of ChemView. To do so:

1. Type in chemical name or identifier, as on the Chemicals and Endpoint tabs.
2. Select outputs in the Show Output Selection section.
3. Click the Generate Results button. The results section of the screen will display a colored tab for each data source that has results. If a data source has no results, its colored tab will not be displayed.

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Data last updated on 8/26/2015

CHEMICALS ENDPOINT DASHBOARD OTHER SOURCES

#### Select Search Criteria:

Select Chemical Search Criteria and desired Output Selections.

**Generate Results**

**Chemical Information**

starts with exact contains

**Chemical name or Chemical Identifier**

Enter a full or partial chemical name

**Show Output Selection**

Select All/Deselect All Outputs

**U.S. – Government**

Select All/Deselect All

- EPA – TRI Pollution Prevention
- NIH – ChemIDPlus
- OSHA – Occupational Chemical Database
- EPA – ECOTOX Database
- NIH – PubChem
- NIH – Chemical Effects in Biological Systems

**Generate Results**

EPA P2 NIH NLM OSHA EPA ECOTOX NIH PubChem NIH CEBS

100-17-4: p-Nitroanisole  
100-21-0: Terephthalic acid  
100-37-8: 2-Diethylaminoethanol  
100-41-4: Ethylbenzene  
100-42-5: Styrene  
100-44-7: Benzyl chloride  
100-51-6: Benzyl alcohol  
100-52-7: Benzaldehyde

Click the down arrow on a data source tab to view the list of chemicals.

In the dropdown list, click the link for a chemical. Additional information will be displayed. Click links for more information, for example, to link to the data source directly.

# ChemView User Interface Guide

**Chemicals and Endpoint Tabs - Generated Results.** The right pane of the screen displays the results for the selected chemical search criteria and data sources.

E-mail Url Print Help Export

Show  entries

Search:

Structure	Chemical Name/ Chemical Identifier	Data Submitted to EPA	EPA Assessments	EPA Actions	Manufacturing, Processing, Use or Release
		View for All	View for All	View for All	View for All
	100-17-4				■
	▾ Terephthalic acid 100-21-0				■ ■
	▾ 2-Diethylaminoethanol 100-37-8				■
	▾ 4-Vinylcyclohexene 100-40-3	■ ■			■
	▾ Ethylbenzene 100-41-4	■	■		■ ■ ■
	▾ Styrene 100-42-5		■		■ ■ ■
	▾ Benzyl chloride 100-44-7	■ ■	■		■ ■ ■
	▾ Benzyl alcohol 100-51-6		■		■
	▾ Benzaldehyde 100-52-7	■ ■	■ ■		■
	▾ 4-Ethylmorpholine 100-74-3				■

Showing 1 to 10 of 2,949 entries

First Previous 1 2 3 4 5 ... 295 Next Last

A column displays for each type for which the user selected at least one source.

A thumbnail image of the chemical structure is displayed.

Results are color-coded in accordance with the sources in the outputs in the left pane.

**Results.** Results are displayed in three primary formats, described in 3a, 3b, and 3c.

E-mail Url Print Help Export

Show 10 entries Search:

Structure	Chemical Name/ Chemical Identifier	Data Submitted to EPA	EPA Assessments	EPA Actions	Manufacturing, Processing, Use or Release
		View for All	View for All	View for All	View for All
	100-17-4				■
	▼ Terephthalic acid 100-21-0				■ ■
	▼ 2-Diethylaminoethanol 100-37-8				■
	▼ 4-Vinylcyclohexene 100-40-3	■ ■			■
	▼ Ethylbenzene 100-41-4	■	■		■ ■ ■
	▼ Styrene 100-42-5		■		■ ■ ■
	▼ Benzyl chloride 100-44-7		■		■ ■ ■
	▼ Benzyl alcohol 100-51-6		■		■
	▼ Benzaldehyde 100-52-7	■ ■	■ ■		■
	▼ 4-Ethylmorpholine 100-74-3				■

Showing 1 to 10 of 2,949 entries

First Previous 1 2 3 4 5 ... 295 Next Last

**3a.** Click a hyperlinked chemical name. A detailed view will display information from the selected output sources for which there is data for that chemical.

**3b.** Click a "View for All" button in a source type column. This will display data for the chemicals shown on the results page and all the selected sources in that type for which there is data.

**3c.** Click a colored square. Data from that source for that chemical will be displayed. For example, clicking this square will display Health and Safety Studies details for Benzaldehyde. For more information on specific sources, refer to the Appendix.

# ChemView User Interface Guide

**Navigate.** There are several ways to navigate results.

The default is 10 chemicals displaying on each page. To change, select a different value from the **Show** dropdown menu.

Click the toggle triangles to sort the chemicals by Chemical Identifier, in ascending or descending order.

To filter the results further, type letters or numbers in the **Search** field. For example, typing in "benz" or "100" will search for and display the results containing that string of characters. To remove the filter, delete any characters in the Search field.

Click the triangle in front of the chemical name to display synonyms.

Click First, Previous, Next, Last, or a page number to view pages.

This line states the range of results that are shown on the current page and the total number of results. If a filter is being applied, this line will include the number of filtered results.

Showing 1 to 10 of 526 entries (filtered from 2,949 total entries)

Structure	Chemical Name/ Chemical Identifier	Data Submitted to EPA	EPA Assessments	EPA Actions	Manufacturing, Processing, Use or Release
	▼ p-Nitroanisole 100-17-4				
	▼ Terephthalic acid 100-21-0				
	▼ Ethylbenzene 100-41-4				
	▼ Styrene 100-42-5				
	▼ Benzyl chloride 100-44-7				
	▼ Benzyl alcohol 100-51-6				
	▼ Benzaldehyde 100-52-7				
	▼ Germanium tetrachloride 10038-98-9				
	▼ Barium hydrogen phosphate 10081-67-1				

Buttons: E-mail Url, Print, Help, Export

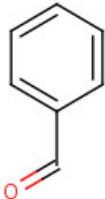
Search: benz

View for All buttons: View for All, View for All, View for All, View for All

Page navigation: First, Previous, 1, 2, 3, 4, 5, ..., 53, Next, Last

3a. A detailed view is displayed after the user clicks a hyperlinked chemical name in the results. In this example, the user clicked Benzaldehyde.

Print | E-mail Url



Chemical Name: **Benzaldehyde** CAS #: **100-52-7**

**Data Submitted to EPA**  
Health and Safety Studies  
High Production Volume Information System  
[HPVIS](#)

**EPA Assessments**  
Hazard Characterizations  
Ecotoxicity  
[Acute aquatic toxicity \(3\)](#)  
Environmental fate  
Bioaccumulation/ Bioconcentration (1)  
[Bioconcentration \(1\)](#)  
Transport Between Environmental Compartments (Fugacity) (2)  
[Fugacity \(1\)](#)  
[Henry's Law constant \(1\)](#)  
Human health  
[Acute toxicity \(3\)](#)  
[Developmental toxicity \(1\)](#)  
[Mutagenicity/Genetic toxicity \(4\)](#)

Additional information can be accessed by clicking hyperlinked text.

**3b.** This image shows a view that is displayed after the user clicks a “View for All” button for a source type column. In this example, the View for All button was clicked for the Data Submitted to EPA column.

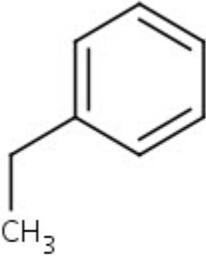
Print | E-mail Url ✕

Chemical Name	Data Submitted to EPA	
▾ 4-Vinylcyclohexene 100-40-3	Chemical Test Rule Data  HPVIS	<b>Human health</b> <ul style="list-style-type: none"> <li>• <a href="#">Metabolism and Pharmacokinetics (4)</a></li> <li>• <a href="#">Mutagenicity/Genetic toxicity (2)</a></li> </ul>
▾ Ethylbenzene 100-41-4	8E  8D	<b>Human health</b> <ul style="list-style-type: none"> <li>• <a href="#">Developmental toxicity (1)</a></li> <li>• <a href="#">Repeated dose toxicity (4)</a></li> <li>• <a href="#">Reproductive toxicity (1)</a></li> </ul>
▾ Styrene 100-42-5	8E	<b>Human health</b> <ul style="list-style-type: none"> <li>• <a href="#">Repeated dose toxicity (5)</a></li> </ul>
▾ Benzyl chloride 100-44-7	Chemical Test Rule Data  8D	<b>Human health</b> <ul style="list-style-type: none"> <li>• <a href="#">Metabolism and Pharmacokinetics (1)</a></li> </ul>
▾ Benzaldehyde 100-52-7	8D  HPVIS	

Additional information can be accessed by clicking hyperlinked text.

**3c.** This screen shows a view that is displayed after the user clicks a colored square for a chemical and data source. In this example, the user clicked the colored square for Substantial Risk Reports details for Ethylbenzene. Views for specific sources are described further in the Appendix.

Print | E-mail Url ✕

  
CCc1ccccc1

Chemical Name: **Ethylbenzene**      CAS #: **100-41-4**

**Data Submitted to EPA**  
Substantial Risk Reports  
Human health

- Developmental toxicity (1)
- Repeated dose toxicity (4)
- Reproductive toxicity (1)

Additional information can be accessed by clicking hyperlinked text.

## ChemView User Interface Guide

**Navigate.** There are several ways to navigate tabular results.

Print | E-mail Url

Click "Print" to print the contents of the window. Click "E-mail Url" to generate an email containing a URL that captures the information in the current window.

Click the red "x" to close the window.

CCc1ccccc1

Chemical Name: **Ethylbenzene** CAS #: **100-41-4**

**Data Submitted to EPA**

Substantial Risk Reports

- Human health
  - Developmental toxicity (1)
  - Repeated dose toxicity (4)
  - Reproductive toxicity (1)

Health and Safety Studies

**EPA Assessments**

Integrated Risk Information System

IRIS

**Manufacturing, Processing, Use, and Release Data Maintained by EPA**

Chemical Data Reporting

- CDR Summary

Toxics Release Inventory

TRI

TRI Pollution Prevention

P2

Use the scroll bar to see more of the window's content.

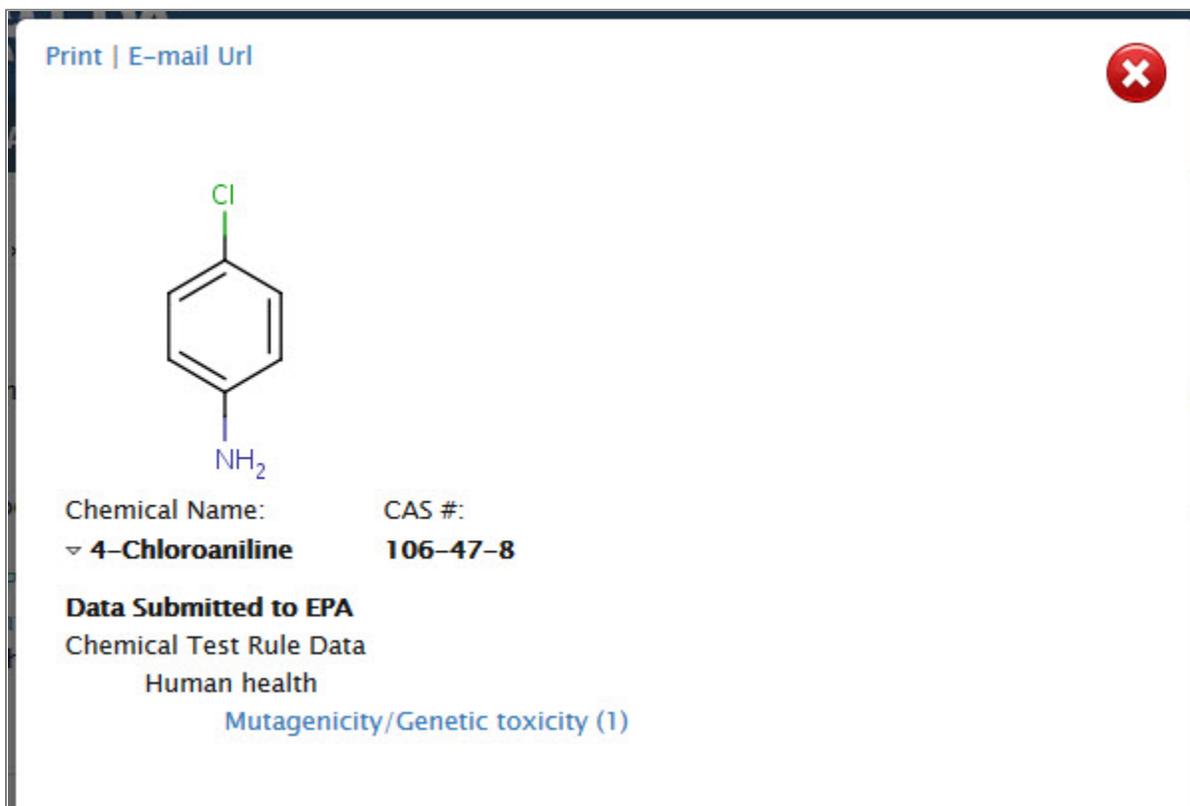
Click and drag the corner to expand the window.

## Appendix of Data Sources

The following describes each data source. Some windows now enable the user to export.

### Chemical Test Rule Data

1. In the results, click a colored square for Chemical Test Rule Data details. A window will open (Figure TR-1):



The screenshot shows a window titled "Print | E-mail Url" with a red close button in the top right corner. The window displays the chemical structure of 4-chloroaniline, which consists of a benzene ring with a chlorine atom (Cl) at the top position and an amino group (NH<sub>2</sub>) at the bottom position. Below the structure, the chemical name is listed as "4-Chloroaniline" and the CAS number is "106-47-8". Under the heading "Data Submitted to EPA", the text "Chemical Test Rule Data" and "Human health" are shown, with "Mutagenicity/Genetic toxicity (1)" listed below in blue text.

Print | E-mail Url

Nc1ccc(Cl)cc1

Chemical Name: CAS #:  
▼ 4-Chloroaniline 106-47-8

**Data Submitted to EPA**  
Chemical Test Rule Data  
Human health  
Mutagenicity/Genetic toxicity (1)

Figure TR-1. Chemical Test Rule Data – 1

2. Click one of the endpoints shown in Figure TR-1; for example, “Mutagenicity/Genetic toxicity.” A window will open (Figure TR-2):

Print | E-mail URL | Export ✕

**Chemical Test Rule Data**

**4-Chloroaniline**

**106-47-8**

**Mutagenicity/Genetic toxicity**

Study Type	Type of Testing Submitted	Protocol/Guideline	Species	Study Results	Results based on Critical Effect
Mammalian Erythrocyte Micronucleus Test	ECA Testing	Non-TSCA Protocol/Guideline (docket OPTS 42054B)	Mouse	Negative for induction of micronuclei; clinical signs of toxicity (reduced activity, cyanosis, ataxic gait, forward crawling, trembling, narrowed palpebral fissures, rolling convulsions, abnormal position) noted (dose groups not specified)	The test substance was not mutagenic (did not induce micronuclei) in mice. Clinical signs of toxicity (reduced activity, cyanosis, ataxic gait, forward crawling, trembling, narrowed palpebral fissures, rolling convulsions, abnormal position) were noted.

**Legend**

TSCA ECA	Testing pursuant to a TSCA Enforceable Consent Agreement
TSCA §4 TR	Required Test Rule Data under TSCA §4 regulations
TSCA §5	Test data submitted under TSCA §5 regulations
TSCA §5 CO	Test data submitted under TSCA §5 pursuant to a Consent Order
HPVC	Voluntary submissions under the High Production Volume Challenge Program
VCCEP	Voluntary submissions under the Voluntary Children's Chemical Evaluation Program

**Figure TR-2. Chemical Test Rule Data – 2**

3. Click a link in the “Study Type” column, shown in Figure TR-2. This will open a view similar to that shown in Figure TR-3:

Print | E-mail Url

**Chemical Test Rule Data** [View Full Test](#)

**Chemical Name** : 4-chloroaniline  
**Chemical Identifier** : 106-47-8  
**Federal Register Citation** : 53FR31804;  
**Code Federal Regulation** : 40 CFR 799.5000;  
**Use** : Intermediate; Dyes/pigment; Pesticide;

**Human health:**

- Mutagenicity/Genetic toxicity
  - Study Type : Mammalian Erythrocyte Micronucleus Test
  - Type of Testing Submitted : ECA Testing
  - Protocol/Guideline
    - Non-TSCA Protocol/Guideline (docket OPTS 42054B)
  - Good Lab Practices
    - Yes
  - Year Study Performed : July 15, 1988
  - Type of Study
    - Measured
  - Duration of Study : 72 hours
  - Species
    - Mouse
  - Strain : NMRI
  - Sex
    - Female, Male
  - Number of Organisms per Group : 5/sex/time point (24, 48, and 72 hours)
  - Test Substance Purity/Composition : 99.4%

**Figure TR-3. Chemical Test Rule Data – 3**

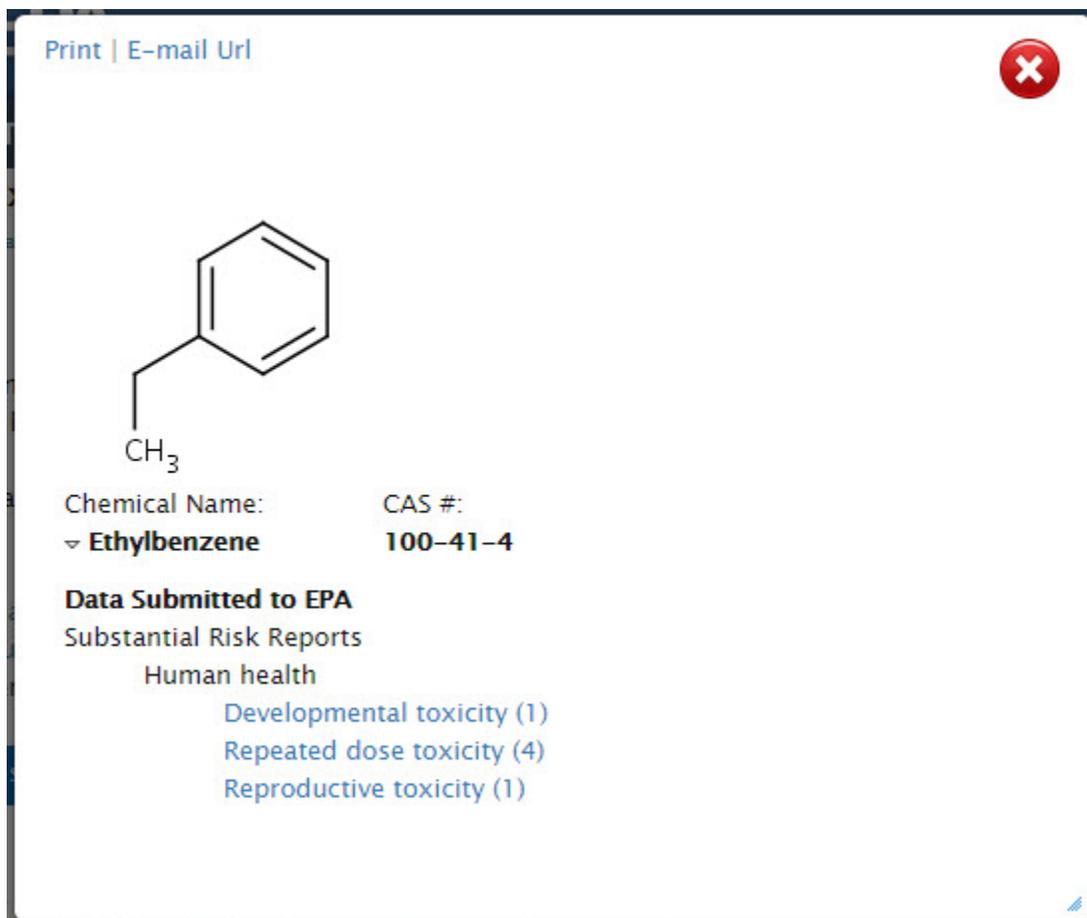
4. Click the “View Full Test” link, shown in the upper right corner of Figure TR-3. This will allow the user to open or save the corresponding PDF from the EPA server.

5. Click a link for Federal Register Citation, shown in Figure TR-3. A window will open with a link to or a PDF of the citation.

(end of Chemical Test Rule Data)

## Substantial Risk Reports

1. In the results, click a colored square for Substantial Risk Reports details. A window will open, similar to Figure SR-1:



The screenshot shows a window titled "Substantial Risk Reports" for Ethylbenzene. At the top left, there are links for "Print" and "E-mail Url". At the top right is a red close button with a white 'X'. The chemical structure of ethylbenzene is shown, consisting of a benzene ring with an ethyl group (-CH<sub>2</sub>-CH<sub>3</sub>) attached. Below the structure, the chemical name is listed as "Ethylbenzene" with a dropdown arrow to its left, and the CAS number is "100-41-4". Under the heading "Data Submitted to EPA", there is a section for "Substantial Risk Reports" under "Human health". The reported risks are: "Developmental toxicity (1)", "Repeated dose toxicity (4)", and "Reproductive toxicity (1)".

Print | E-mail Url

CCc1ccccc1

CH<sub>3</sub>

Chemical Name: **Ethylbenzene** CAS #: **100-41-4**

**Data Submitted to EPA**

Substantial Risk Reports

Human health

- Developmental toxicity (1)
- Repeated dose toxicity (4)
- Reproductive toxicity (1)

Figure SR-1. Substantial Risk Reports – 1

2. Click hyperlinked text under Substantial Risk Reports; for example, “Repeated dose toxicity” shown in Figure SR-1. A window will open, similar to Figure SR-2:

Print | E-mail Url | Export

**Substantial Risk Reports**

**Ethylbenzene**

100-41-4

Repeated dose toxicity

Study Type	Protocol/Guideline	Species	Sex	Route	Study Results	Type of Submission	Results based on Critical Effect
Not Specified		MICE	Male		A chronic inhalation toxicity study in mice was conducted at target concentrations of 0, 75, 250, and 750 ppm for 6 hours, 5 days/week for 104 weeks. Animals were found dead or sacrificed in moribund condition at all dose levels, including the control. An increased incidence of alveolar/bronchiolar neoplasms in the lungs of exposed male animals, particularly at the 250 and 750 ppm dose levels, and slightly increased in the 750 ppm females were noted. In addition, metaplasia of the alveolar epithelium was also diagnosed primarily in the exposed males. The incidence of hepatocellular adenomas/carcinomas in the liver were increased in the 750 ppm females. In addition, lesions such as hepatocellular syncytial alteration, hypertrophy, and necrosis were also confirmed in exposed male animals. Also noted was an increased incidence of thyroid follicular cell hyperplasia in exposed males and females, particularly in the 250 and 750 ppm animals. Finally, an increased incidence of pars distalis hyperplasia of the pituitary gland in the 250 and 750 ppm exposed females.	Not Specified	
Not Specified		RATS	Male		An NTP lifetime bioassay was conducted in which male and female F344 rats were exposed to the test substance by inhalation (whole-body exposure) to target concentrations of 0, 75, 250, and 750 ppm for	Not Specified	

**Figure SR-2. Substantial Risk Reports – 2**

3. Click a link in the “Study Type” column, shown in Figure SR-2. This will open a view similar to that shown in Figure SR-3. (Please note that some will direct to the submission report only and the full detail summaries are under development.)

Print | E-mail Url

### Substantial Risk Reports

[View Substantial Risk Reports](#)

**Chemical Name** : Benzene, ethyl-  
**Chemical Identifier** : 100-41-4  
**Document Control Number**: 88960000161

**Submission Information:**

**What Human Toxicity testing was submitted?:**

- REPEATED DOSE TOXICITY
  - Species
    - Other : MICE
  - Sex of Organisms
    - Male
  - Study Results : A chronic inhalation toxicity study in mice was conducted at target concentrations of 0, 75, 250, and 750 ppm for 6 hours, 5 days/week for 104 weeks. Animals were found dead or sacrificed in moribund condition at all dose levels, including the control. An increased incidence of alveolar/bronchiolar neoplasms in the lungs of exposed male animals, particularly at the 250 and 750 ppm dose levels, and slightly increased in the 750 ppm females were noted. In addition, metaplasia of the alveolar epithelium was also diagnosed primarily in the exposed males. The incidence of hepatocellular adenomas/carcinomas in the liver were increased in the 750 ppm females.

Figure SR-3. Substantial Risk Reports – 3

4. Click the “View Substantial Risk Reports” link shown in Figure SR-3 or click a link in the “Type of Submission” column shown in Figure SR-2. This will enable the user to open or save the corresponding PDF from the EPA server.

(end of Substantial Risk Reports)

## High Production Volume Information System

1. In the results, click a colored square for High Production Volume Information System details. A window will open (Figure HP-1):

The screenshot displays the HPVIS web interface. At the top, the U.S. Environmental Protection Agency logo is on the left, and the text "U.S. ENVIRONMENTAL PROTECTION AGENCY" is on the right. Below the logo is the HPVIS title and a search bar. The search bar contains "Benzoyl chloride" and "CAS Number: 98-88-4". The search results show "Detailed Chemical Results" for Benzoyl chloride. The page is divided into a left sidebar with navigation links and a main content area with detailed chemical information.

**High Production Volume Information System (HPVIS)**

U.S. ENVIRONMENTAL PROTECTION AGENCY

Contact Us Search: All EPA This Area Go

You are here: EPA Home » Prevention, Pesticides & Toxic Substances » Pollution Prevention & Toxics » High Production Volume Information System » Detailed Chemical Results

### Detailed Chemical Results

**Chemical Name:** Benzoyl chloride  
**CAS Number:** 98-88-4

Click on the endpoint link to see the data on a tab page.

**Physical-Chemical SIDS**

- Melting Point(2)
- Boiling Point(4)
- Vapor Pressure(5)
- Partition Coefficient(2)
- Water Solubility(2)

**Physical-Chemical Other**

- Density/Specific Gravity(3)
- Flash Point(2)
- AutoFlammability(1)
- Explosivity(1)
- Other(1)

**Fate SIDS**

- Photodegradation(2)
- Stability in Water(1)
- Transport Between Environmental Compartments Fugacity/Dist(2)
- Biodegradation(1)

**Fate Other**

- Stability in Soil(1)
- Bioaccumulation(1)

**EcoToxicity SIDS**

- Acute Toxicity to Aquatic Vertebrates(4)
- Acute Toxicity to Aquatic Invertebrates(1)

Figure HP-1. High Production Volume Information System - 1

2. Click on a link for further information; for example, “Vapor Pressure.” Another window will open (see Figure HP-2).

The screenshot shows the HPVIS web interface. At the top, there is a search bar with the text "Search: All EPA This Area" and a "Go" button. Below the search bar is a breadcrumb trail: "You are here: EPA Home > Prevention, Pesticides & Toxic Substances > Pollution Prevention & Toxics > High Production Volume Information System > Endpoint Details". The main heading is "Endpoint Details". Below this, there are tabs for "Study 1", "Study 2", "Study 3", "Study 4", and "Study 5". A "Print Robust Summary" button is located to the left of the main data table. The table itself is titled "Vapor Pressure" and contains the following information:

Vapor Pressure	
CAS Number :	98-88-4
Sponsored Chemical Name :	Benzoyl chloride
Test Substance - Vapor Pressure	
Test Substance:	(98-88-4) Benzoyl chloride
Test Substance Purity/Composition and Other Test Substance Comments:	other TS: benzoyl chloride, CAS# 98-88-4; purity not noted Measured
Test Substance Result Type:	Measured
Results - Vapor Pressure	
Vapor Pressure Value/Range (Pressure):	= .5 hPa @ Temperature: 20 °C
Results Remarks:	
Study/Method - Vapor Pressure	
Key Study Sponsor Indicator:	Key

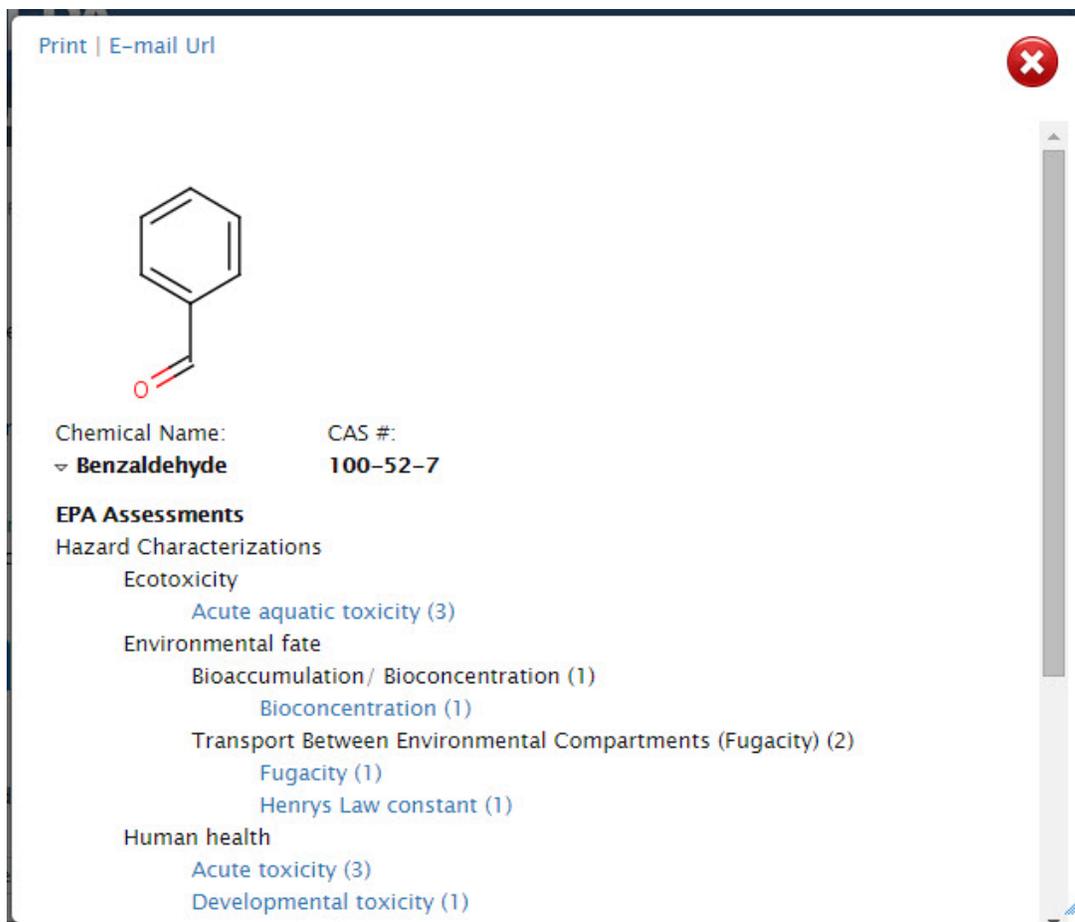
Figure HP-2. High Production Volume Information System - 2

3. If there is more than one study, click the tabs (Study 1, Study 2, etc.) to view each. To print a study, click the “Print Robust Summary” button. To go back, click “Return to Detail Query Results.”

(end of HPVIS)

## Hazard Characterizations

1. In the results, click a colored square for Hazard Characterizations details. A window will open (Figure HC-1):



The screenshot shows a window titled "Hazard Characterizations" for Benzaldehyde. At the top left, there are links for "Print" and "E-mail Url". At the top right is a red close button with a white 'X'. Below the window title is the chemical structure of Benzaldehyde, which consists of a benzene ring attached to a formyl group (-CHO). Underneath the structure, the chemical name "Benzaldehyde" and its CAS number "100-52-7" are displayed. The main content area is titled "EPA Assessments" and lists several hazard categories with associated counts in parentheses:

- Hazard Characterizations**
  - Ecotoxicity
    - Acute aquatic toxicity (3)
  - Environmental fate
    - Bioaccumulation/ Bioconcentration (1)
      - Bioconcentration (1)
    - Transport Between Environmental Compartments (Fugacity) (2)
      - Fugacity (1)
      - Henrys Law constant (1)
  - Human health
    - Acute toxicity (3)
    - Developmental toxicity (1)

Figure HC-1. Hazard Characterizations - 1

2. Click a link for an endpoint, as shown in Figure HC-1; for example, “Acute aquatic toxicity.” A window will open (Figure HC-2):

Print | E-mail Url | Export

**Hazard Characterizations**

**Benzaldehyde**

**100-52-7**

**Acute aquatic toxicity**

Study type	Species	Summary
Estimated by Analogy	Daphnia magna	See aquatic invertebrate toxicity data at <a href="http://webnet.oecd.org/hpv/UI/SIDS_Details.aspx?Key=624478ca-b163-434a-8b6cbae2cfa08e0c&amp;idx=0">http://webnet.oecd.org/hpv/UI/SIDS_Details.aspx?Key=624478ca-b163-434a-8b6cbae2cfa08e0c&amp;idx=0</a> . p-Methoxybenzaldehyde (CASRN 123-11-5)
Estimated by Analogy	Pseudokirchneriella subcapitata	Toxicity to aquatic plants endpoint was available through SIDS and obtained from: CASRN 123-11-5 [SIAP is only available; SIAR/robust summaries are not done] ( <a href="http://webnet.oecd.org/hpv/UI/SIDS_Details.aspx?Key=624478ca-b163-434a-8b6cbae2cfa08e0c&amp;idx=0">http://webnet.oecd.org/hpv/UI/SIDS_Details.aspx?Key=624478ca-b163-434a-8b6cbae2cfa08e0c&amp;idx=0</a> ). 72 h ErC50 = 61 mg/L (measured; growth rate) 72 h EbC50 = 59 mg/L (measured; biomass). p-Methoxybenzaldehyde CASRN 123-11-5
Experimental	Pimephales promelas	Fathead minnow (Pimephales promelas) were exposed to benzaldehyde (98% purity) at nominal concentrations of 8.6, 14.3, 23.9, 39.8, 66.3 mg/L for 96 hours. Dissolve oxygen content was 7.2mg/L, water hardness 46.2 mg/L CaCO3, pH 7.73, temperature 23.9 Celsius. LC50 value reported is analytically measured and supplied as new data to this submission (Brook et al., 1984) 96-h LC50 = 7.61 mg/L

[View Hazard Characterizations Summary](#)

**Figure HC-2. Hazard Characterizations - 2**

3. Click the “View Hazard Characterizations Summary” link, shown in Figure HC-2. A window will open (Figure HC-3):

Print | E-mail Url

### Hazard Characterizations

[View Hazard Characterizations](#)

**Chemical Name :** Benzaldehyde  
**Chemical Identifier :** 100-52-7  
**Chemical Category:** Benzyl Derivatives Category;

**Human health:**

- Developmental toxicity
  - Summary : In a combined repeated-dose/reproductive/developmental toxicity screening test Crj:CD(SD)IGS rats (13/sex/dose) were given p-methoxybenzaldehyde at a dose of 0 (vehicle: corn oil), 20, 100 or 500 mg/kg/day. Males were dosed for 42 days from day 14 before mating and females were dosed for day 14 before mating, during mating (males and females), gestation periods to day 4 of lactation (females). Reduced fertility index, number of pups/litter, delivery index and number of live pups was significantly reduced at 500 mg/kg/day. See human health data at [http://webnet.oecd.org/hpv/UI/SIDS\\_Details.aspx?Key=413df70f-f309-4eb4-8278-1da434eda903&idx=0](http://webnet.oecd.org/hpv/UI/SIDS_Details.aspx?Key=413df70f-f309-4eb4-8278-1da434eda903&idx=0) LOAEL (maternal toxicity) = 100 mg/kg/day (based on decreased body weight, decreased platelets and hypertrophy of hepatocytes) NOAEL (maternal toxicity) = 20 mg/kg/day LOAEL (developmental toxicity) = 500 mg/kg/day (based on reduced number of pups/litter, delivery index and number of live pups) NOAEL (developmental toxicity) = 100 mg/kg/day. p-Methoxybenzaldehyde (CASRN 123-11-5)
  - Study type : Combined Repeated Dose with Reproduction/ Developmental Toxicity Screen
  - Length/duration : Males were dosed for 42 days from day 14 before mating and females were dosed for day 14 before mating, during mating (males and females), gestation periods to day 4 of lactation
  - Species
    - Rat
  - Results Based on Critical Effect
    - NOAEL : 100.00 mg/kg/d
    - LOAEL : 500.00 mg/kg/d

Figure HC-3. Hazard Characterizations - 3

4. Click the “Hazard Characterizations” link, shown in the upper left corner of Figure HC-3. A window will open (Figure HC-4):

The screenshot shows the HPVIS website interface. At the top, there is a navigation bar with the EPA logo and the text "U.S. ENVIRONMENTAL PROTECTION AGENCY". Below this is a search bar and a breadcrumb trail: "You are here: EPA Home » Prevention, Pesticides & Toxic Substances » Pollution Prevention & Toxics » High Production Volume Information System » HPV Chemical Hazard Characterizations".

The main heading is "HPV Chemical Hazard Characterizations". Below this, there is a brief description: "These 'characterizations' are evaluations conducted by EPA of the hazard (toxicity) data submitted on selected chemicals through the High Production Volume Challenge. To search for hazard characterizations by CAS Number, use the search box on the HPVIS home page. See chemicals with hazard characterizations by CAS Numbers." There is also a note: "\*Sort columns by clicking on the arrows beneath the column title".

A message box states: "You will need Adobe Acrobat Reader to view some of the files on this page. See EPA's page to learn more about PDF, and for the link to the free Acrobat Reader."

The main content is a table with three columns: "Submission Name", "Posted Date", and "View HPVIS Data". Each row represents a chemical characterization with a PDF link, page count, and file size. Below each PDF link is a "List Chemical(s)" link.

Submission Name	Posted Date	View HPVIS Data
<a href="#">1,2,3-Propanetriol, trinitrate (PDF)</a> (14 pp, 113 KB) <a href="#">List Chemical(s)</a>	SEPTEMBER 2010	<a href="#">View Chemical Data</a>
<a href="#">1,2-Ethanediamine, N-(1,3-dimethylbutylidene)-N (PDF)</a> (29 pp, 181 KB) <a href="#">List Chemical(s)</a>	DECEMBER 2012	<a href="#">View Chemical Data</a>
<a href="#">1,2-Ethandiol, diacetate (PDF)</a> (18 pp, 78 KB) <a href="#">List Chemical(s)</a>	SEPTEMBER 2010	<a href="#">View Chemical Data</a>
<a href="#">1,2-Propanediol (PDF)</a> (7 pp, 37 KB) <a href="#">List Chemical(s)</a>	DECEMBER 2009	<a href="#">View Chemical Data</a>
<a href="#">1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta[1,2-benzopyran (PDF)</a> (10 pp, 124 KB) <a href="#">List Chemical(s)</a>	MARCH 2008	<a href="#">View Chemical Data</a>
<a href="#">1,3,5-Triazine-2,4,6-triamine, N,N,N,N,N,N-hexakis(methoxymethyl)- (PDF)</a> (11 pp, 91.9 KB) <a href="#">List Chemical(s)</a>	DECEMBER 2007	
<a href="#">1,3,5-Triazine-2,4,6-trihydro-1,3,5-trisoxiranymethyl- (PDF)</a> (16 pp, 156 KB) <a href="#">List Chemical(s)</a>	DECEMBER 2009	<a href="#">View Chemical Data</a>

Figure HC-4. Hazard Characterizations - 4

5. Click the “View Hazard Characterizations” link, shown in the upper right corner of Figure HC-3. This will enable the user to open or save the corresponding PDF from the EPA server.

(end of Hazard Characterizations)

### Design for the Environment Alternative Assessments

1. In the results, click a colored square for Design for the Environment Alternative Assessments details. A window will open (Figure AA-1):

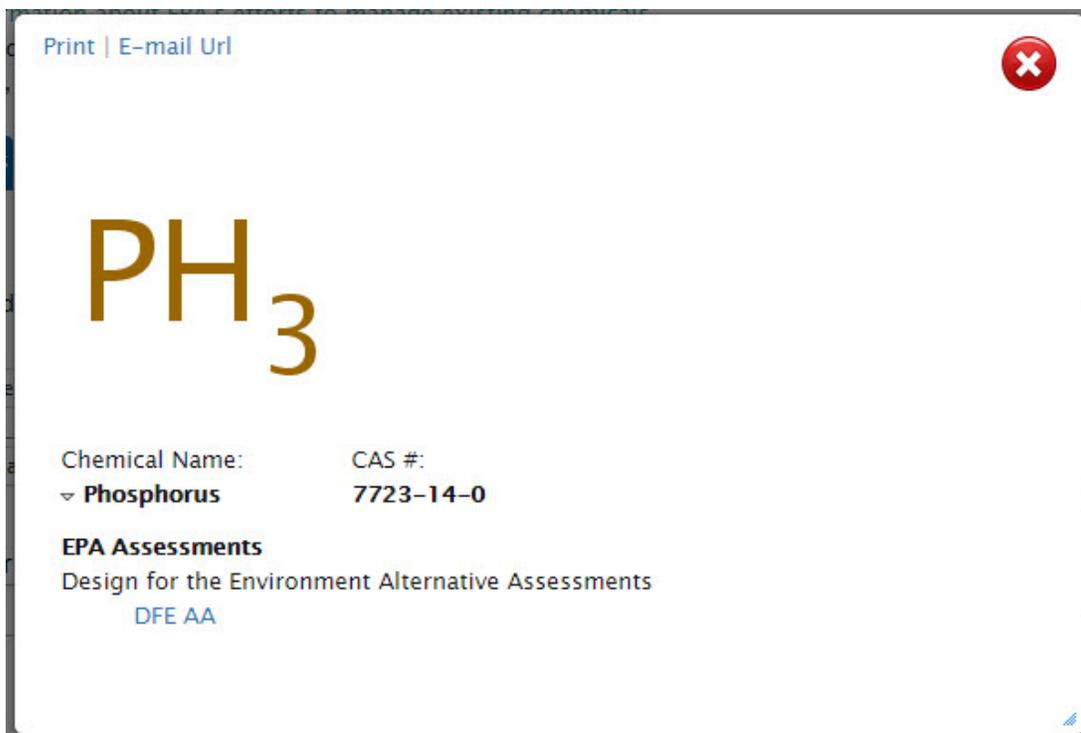


Figure AA-1. Design for the Environment Alternative Assessments - 1

2. Click the “DFE AA” link. A window will open (Figure AA-2):

Print | E-mail Url  
 Design for the Environment : [Alternative Assessment](#)

---

**Red phosphorus**  
 7723-14-0  
 Version: Draft  
 Date: July 2012

---

Human health	
Acute toxicity	VH
Carcinogenicity	L*
Mutagenicity/Genetic toxicity	H*
Reproductive toxicity	M*
Developmental toxicity	M*
Neurological toxicity	H*
Repeated dose toxicity	L*
Skin sensitization	L
Eye irritation	M
Dermal irritation	H
Ecotoxicity	
Acute aquatic toxicity	L

**Legend:**

Endpoints are based on empirical data.

**VL** - Very Low hazard  
**L** - Low hazard  
**M** - Moderate hazard  
**H** - High hazard  
**VH** - Very High hazard

Endpoints denoted with "\*" were assigned using values from estimation software and professional judgement.

Figure AA-2. Design for the Environment Alternative Assessments - 2

3. Click the “Alternative Assessment” link, shown in the upper left corner of Figure AA-2. A browser window will open to the Design for the Environment Alternatives Assessments page, shown in Figure AA-3:

The screenshot shows the EPA website's "Design for the Environment Alternatives Assessments" page. The header includes the EPA logo, the text "United States Environmental Protection Agency", and language options: Español, 中文: 繁體版, 中文: 简体版, Tiếng Việt, and 한국어. Navigation tabs include "Learn the Issues", "Science & Technology", "Laws & Regulations", and "About EPA". A search bar is labeled "Search EPA.gov".

The left sidebar is titled "Safer Choice" and contains a menu with the following items: Safer Choice Home, Learn About Safer Choice, Resources for Manufacturers, Partner of the Year Awards, Search Safer Choice Products, For Use in Your Community, Safer Chemical Ingredients List, How to List on SCIL, Safer Choice Standard and Criteria, Related Programs (DfE Alternatives Assessments, DfE Life-Cycle Assessments, DfE for Pesticides, Safer Detergents Stewardship Initiative), Program History, and Connect with Safer Choice.

The main content area has a breadcrumb trail: "You are here: EPA Home » Safer Choice » Design for the Environment Alternatives Assessments". The title is "Design for the Environment Alternatives Assessments". Below the title are two buttons: "About the Alternatives Assessments" (highlighted) and "How to Conduct an Alternatives Assessment".

The section "What is an alternatives assessment?" explains that EPA uses alternatives assessments to look for safer chemicals. Design for the Environment (DfE) alternatives assessments are conducted as risk management actions when warranted for TSCA Work Plan Chemicals. They have also been conducted under Chemical Action Plans. By identifying and evaluating the safety of alternative chemicals, this approach can:

- encourage industry to move to safer alternatives,
- complement regulatory action by showing that safer and higher functioning alternatives are available, or
- point out the limitations to chemical substitution for a particular use.

Alternatives assessments characterize chemical hazards based on a full range of human health and environmental information. Chemical choices made based on these assessments can minimize the potential for unintended consequences that might occur in moving from a potentially problematic chemical to a poorly understood alternative, which could be more hazardous.

DfE criteria for designating a concern for hazard can be found in the DfE Alternatives Assessment Criteria for Hazard Evaluation. These criteria were updated August 2011 following stakeholder comment, and EPA's response to comments. Learn more about how to conduct an alternatives assessment.

Click on the projects listed below to learn more about specific alternatives assessment partnership projects that the Design for the Environment program has conducted.

Three project cards are shown:

-  [Alternatives to Certain Phthalates](#)
-  [Flame Retardants in Flexible Polyurethane Foam](#)
-  [BPA in Thermal Paper](#)
-  [Flame Retardants in Printed Circuit](#)

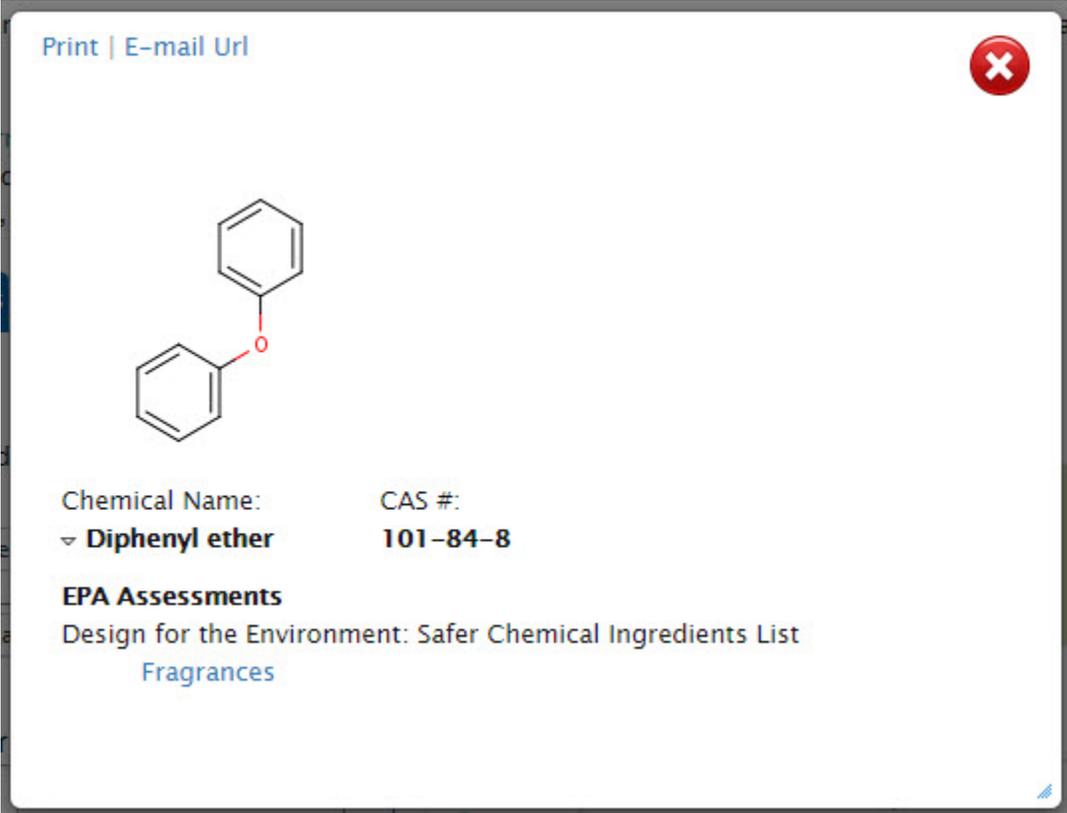
Figure AA-3. Design for the Environment Alternative Assessments - 3

4. Click one of the endpoints, as shown in Figure AA-2; for example, “Acute toxicity.” This will enable the user to open or save the corresponding PDF from the EPA server.

(end of DfE AA)

## Design for the Environment: Safer Chemicals Ingredients List

1. In the results, click a colored square for Design for the Environment: Safer Chemicals Ingredients List details. A window will open (Figure SC-1):



The screenshot shows a window with a title bar containing "Print | E-mail Url" and a red close button. The main content area displays the chemical structure of Diphenyl ether, which consists of two benzene rings connected by an oxygen atom. Below the structure, the text reads: "Chemical Name: CAS #:", "Diphenyl ether 101-84-8", "EPA Assessments", "Design for the Environment: Safer Chemical Ingredients List", and "Fragrances".

Print | E-mail Url

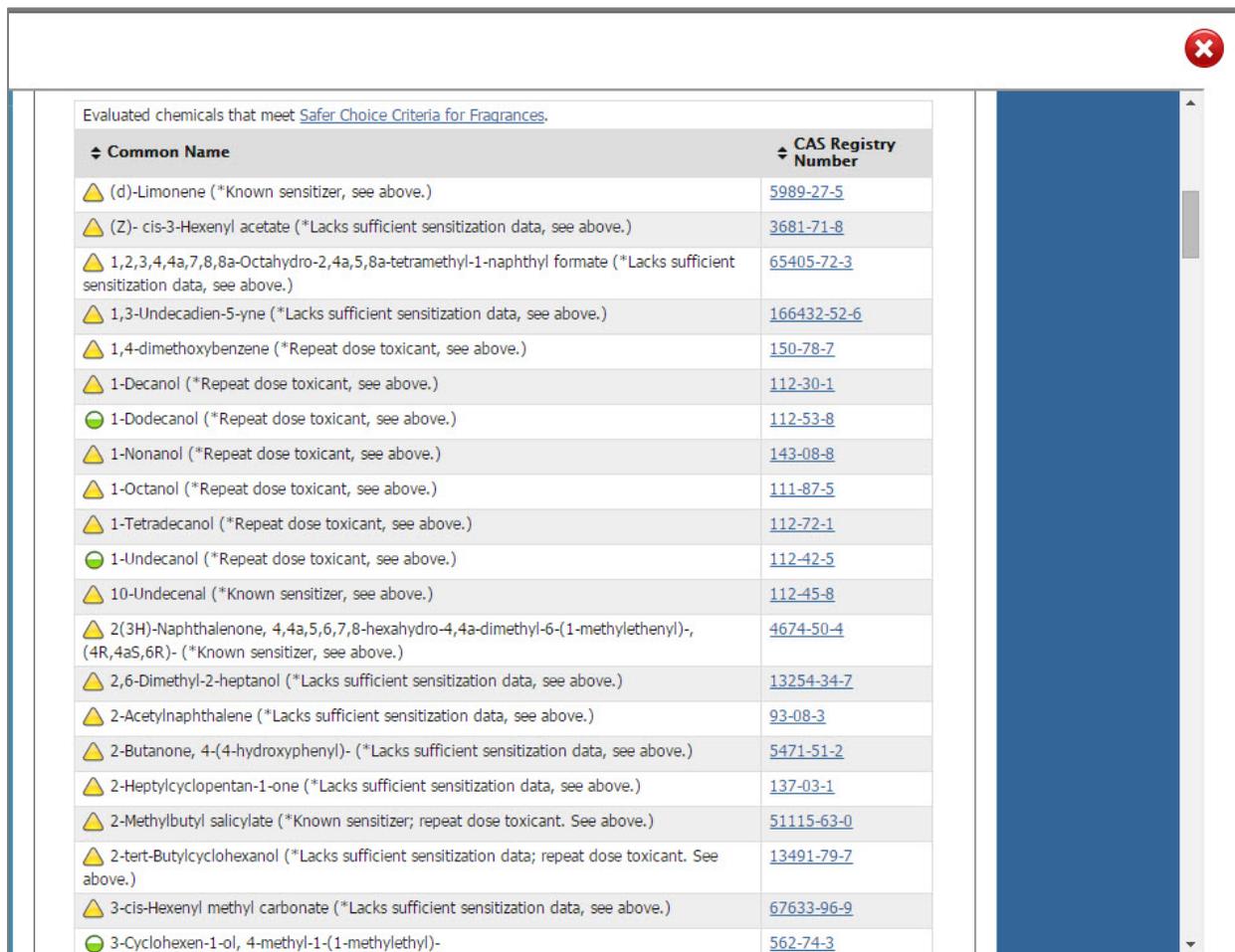
c1ccc(cc1)Oc2ccccc2

Chemical Name: CAS #:  
▼ **Diphenyl ether** **101-84-8**

**EPA Assessments**  
Design for the Environment: Safer Chemical Ingredients List  
[Fragrances](#)

Figure SC-1. Safer Chemicals Ingredients List - 1

2. Click a link, for example “Fragrances.” A window will open to the Safer Chemical Ingredients List page, to the functional class, shown in Figure SC-2.



Common Name	CAS Registry Number
(d)-Limonene (*Known sensitizer, see above.)	<a href="#">5989-27-5</a>
(Z)- cis-3-Hexenyl acetate (*Lacks sufficient sensitization data, see above.)	<a href="#">3681-71-8</a>
1,2,3,4,4a,7,8,8a-Octahydro-2,4a,5,8a-tetramethyl-1-naphthyl formate (*Lacks sufficient sensitization data, see above.)	<a href="#">65405-72-3</a>
1,3-Undecadien-5-yne (*Lacks sufficient sensitization data, see above.)	<a href="#">166432-52-6</a>
1,4-dimethoxybenzene (*Repeat dose toxicant, see above.)	<a href="#">150-78-7</a>
1-Decanol (*Repeat dose toxicant, see above.)	<a href="#">112-30-1</a>
1-Dodecanol (*Repeat dose toxicant, see above.)	<a href="#">112-53-8</a>
1-Nonanol (*Repeat dose toxicant, see above.)	<a href="#">143-08-8</a>
1-Octanol (*Repeat dose toxicant, see above.)	<a href="#">111-87-5</a>
1-Tetradecanol (*Repeat dose toxicant, see above.)	<a href="#">112-72-1</a>
1-Undecanol (*Repeat dose toxicant, see above.)	<a href="#">112-42-5</a>
10-Undecenal (*Known sensitizer, see above.)	<a href="#">112-45-8</a>
2(3H)-Naphthalenone, 4,4a,5,6,7,8-hexahydro-4,4a-dimethyl-6-(1-methylethyl)-, (4R,4aS,6R)- (*Known sensitizer, see above.)	<a href="#">4674-50-4</a>
2,6-Dimethyl-2-heptanol (*Lacks sufficient sensitization data, see above.)	<a href="#">13254-34-7</a>
2-Acetylnaphthalene (*Lacks sufficient sensitization data, see above.)	<a href="#">93-08-3</a>
2-Butanone, 4-(4-hydroxyphenyl)- (*Lacks sufficient sensitization data, see above.)	<a href="#">5471-51-2</a>
2-Heptylcyclopentan-1-one (*Lacks sufficient sensitization data, see above.)	<a href="#">137-03-1</a>
2-Methylbutyl salicylate (*Known sensitizer; repeat dose toxicant. See above.)	<a href="#">51115-63-0</a>
2-tert-Butylcyclohexanol (*Lacks sufficient sensitization data; repeat dose toxicant. See above.)	<a href="#">13491-79-7</a>
3-cis-Hexenyl methyl carbonate (*Lacks sufficient sensitization data, see above.)	<a href="#">67633-96-9</a>
3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-	<a href="#">562-74-3</a>

Figure SC-2. Safer Chemicals Ingredients List - 2

3. Click the CAS Registry Number for additional information.

(end of SCIL)

### Significant New Use Rules

1. In the results, click a colored square for Significant New Use Rules details. A window will open (Figure SN-1):

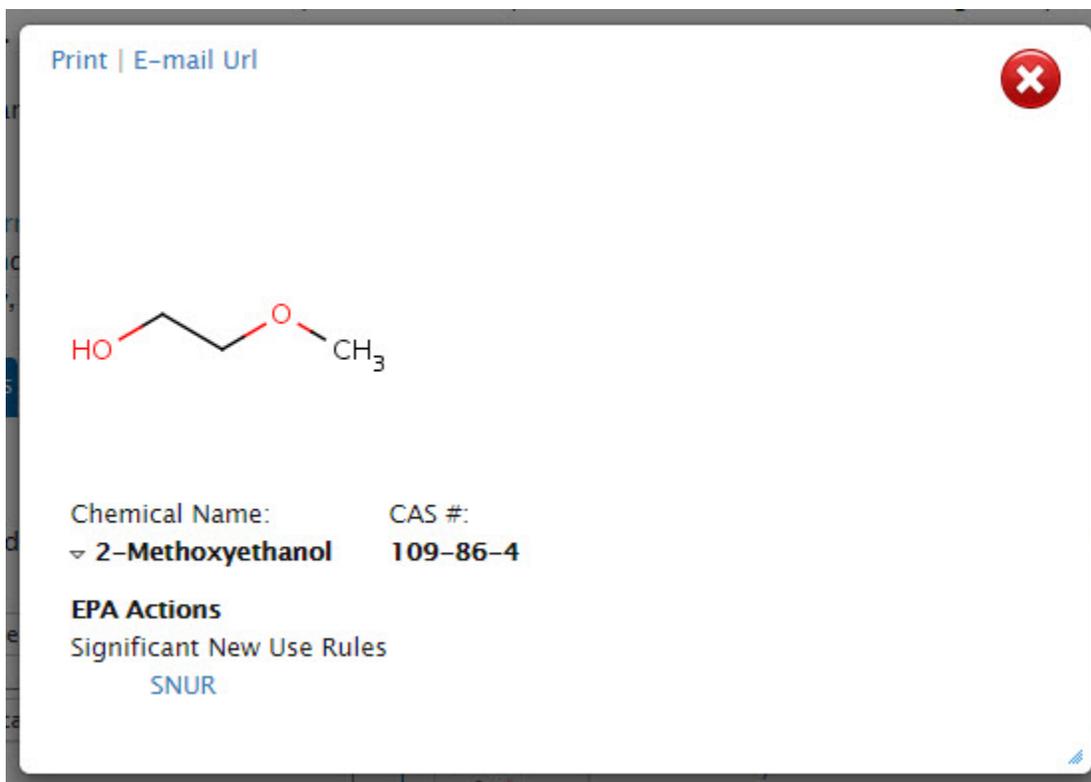


Figure SN-1. Significant New Use Rules - 1

2. Click the “SNUR” link, shown in Figure SN-1. A window will open (Figure SN-2):

Print | E-mail Url

### Significant New Use Rules [View Significant New Use Rules](#)

**Chemical Name** : 2-methoxyethanol  
**Chemical Identifier** : 109-86-4  
**Federal Register Citation** : 70 FR 71401 November 29 2005;  
**Code Federal Regulation** : 40 CFR 721.10001;  
**Chemical Category**: Ethylene Glycol Ethers;

**What is a Significant New Use Rule (SNUR)?**: SNUR not associated with a Consent Order. : EPA has determined that potential uses different from those already in commerce (i.e., for existing chemicals) or identified in a pre-manufacture notice (i.e., for new chemicals) may result in increased exposures to, or releases of, the substance. For new chemicals, use of the chemical in a manner other than as described in the SNUR is a Significant New Use. For existing chemicals, resumption of a discontinued use identified in the SNUR or in a manner other than described in the SNUR is a Significant New Use. Entities that wish to commence or resume use of the chemical substance for a significant new use must notify EPA before the new use begins or resumes through submission of a SNUN so that EPA has the opportunity to review and, if appropriate, place restrictions on the new use.

**Significant New Use Rule for:** 2-Methoxyethanol , 109-86-4

**Has the chemical been commenced?:** Yes

**PMN Number:** Chemical did not go through EPA's new chemical review program

**Functional Use:** Solvent

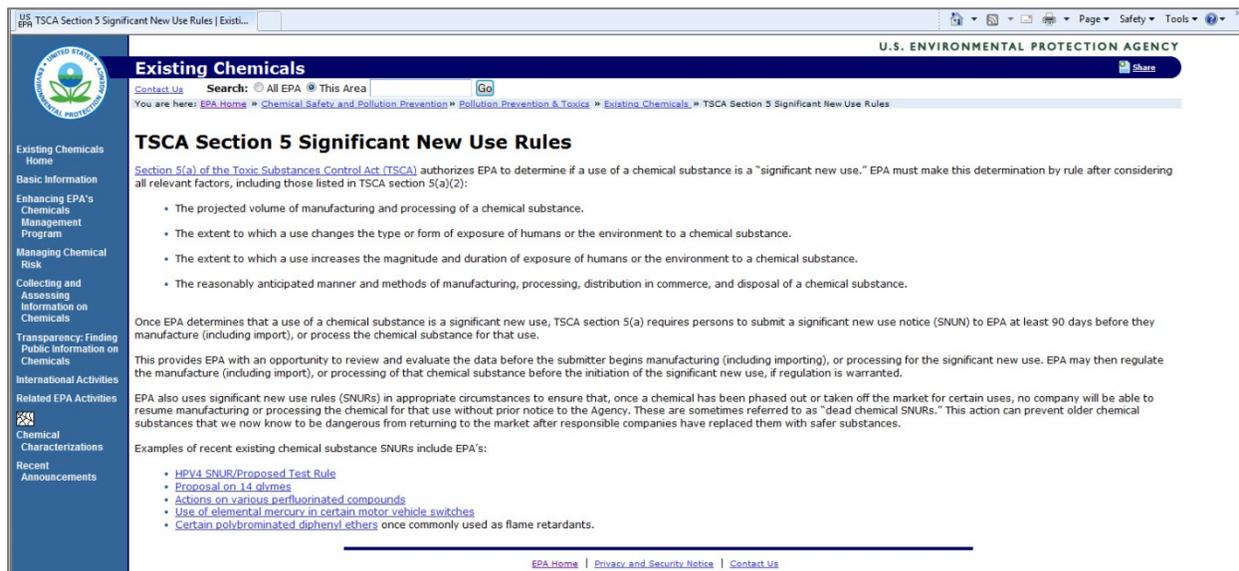
**What are the health or environmental toxicity concerns?:**

- Developmental/reproduction

Figure SN-2. Significant New Use Rules - 2

## Appendix – Data Sources

3. Click the “Significant New Use Rules” link, shown in the upper left corner of Figure SN-2. A window will open (Figure SN-3):



The screenshot shows a web browser window displaying the EPA's website. The page title is "Existing Chemicals" and the main heading is "TSCA Section 5 Significant New Use Rules". The page content includes a search bar, a navigation menu on the left, and a main text area with a list of factors for determining significant new use. The list includes:

- The projected volume of manufacturing and processing of a chemical substance.
- The extent to which a use changes the type or form of exposure of humans or the environment to a chemical substance.
- The extent to which a use increases the magnitude and duration of exposure of humans or the environment to a chemical substance.
- The reasonably anticipated manner and methods of manufacturing, processing, distribution in commerce, and disposal of a chemical substance.

The page also mentions that EPA must make this determination by rule after considering all relevant factors, including those listed in TSCA section 5(a)(2). It further states that once EPA determines a use is a significant new use, TSCA section 5(a) requires persons to submit a significant new use notice (SNUN) to EPA at least 90 days before they manufacture (including import), or process the chemical substance for that use. The page also provides information on how EPA uses significant new use rules (SNURs) and lists examples of recent existing chemical substance SNURs, including:

- [HPV4 SNUR/Proposed Test Rule](#)
- [Proposal on 1,4-dioxins](#)
- [Actions on various perfluorinated compounds](#)
- [Use of elemental mercury in certain motor vehicle switches](#)
- [Certain polybrominated diphenyl ethers](#) once commonly used as flame retardants.

**Figure SN-3. Significant New Use Rules - 3**

4. Click the “View Significant New Use Rules” link, shown in the upper right corner of Figure SN-2. This will enable the user to open or save the corresponding PDF from the EPA server.

5. Click the link for Code Federal Regulation, shown in Figure SN-2. The CFR will open in a browser window.

(end of SNUR)

### Consent Orders

1. In the results, click a colored square for Consent Orders details. A window will open (Figure CO-1):

Print | E-mail Url

Mn2YO5

Chemical Name: **TSCA § 12(b) Export Notification**  
CAS #: **12438-71-0**  
Manganese yttrium oxide (Mn2YO5)

**EPA Actions**  
Consent Orders  
CO

Figure CO-1. Consent Orders - 1

2. Click the “CO” link, shown in Figure CO-1. A window will open (Figure CO-2):

Print | E-mail Url

### Consent Orders

[View Consent Orders](#)

**Chemical Name :** Manganese yttrium oxide (Mn2YO5)  
**Chemical Identifier :** 12438-71-0  
**Chemical Category:** PBT chemicals;

---

**What type of TSCA Section 5(e) Consent Order was developed for this chemical substance?:** Risk-based Consent Order

**Consent Order for:** Manganese yttrium oxide (Mn2YO5) , 12438-71-0

**Effective Date of TSCA Section 5(e) Consent Order:** 3/23/2001 0:00

**PMN Number:** P-00-1126

**Has the chemical been commenced?:** Yes

**Functional Use:** Pigment (generic)

**What are the health or environmental toxicity concerns?:**

- Aquatic and/or terrestrial toxicity
- Cancer effects
- Lung toxicity (including lung overload)
- Mutagenicity
- Neurological
- Persistent, Bioaccumulative, Toxic (PBT) properties

**What is the health or environmental concern based on?:**

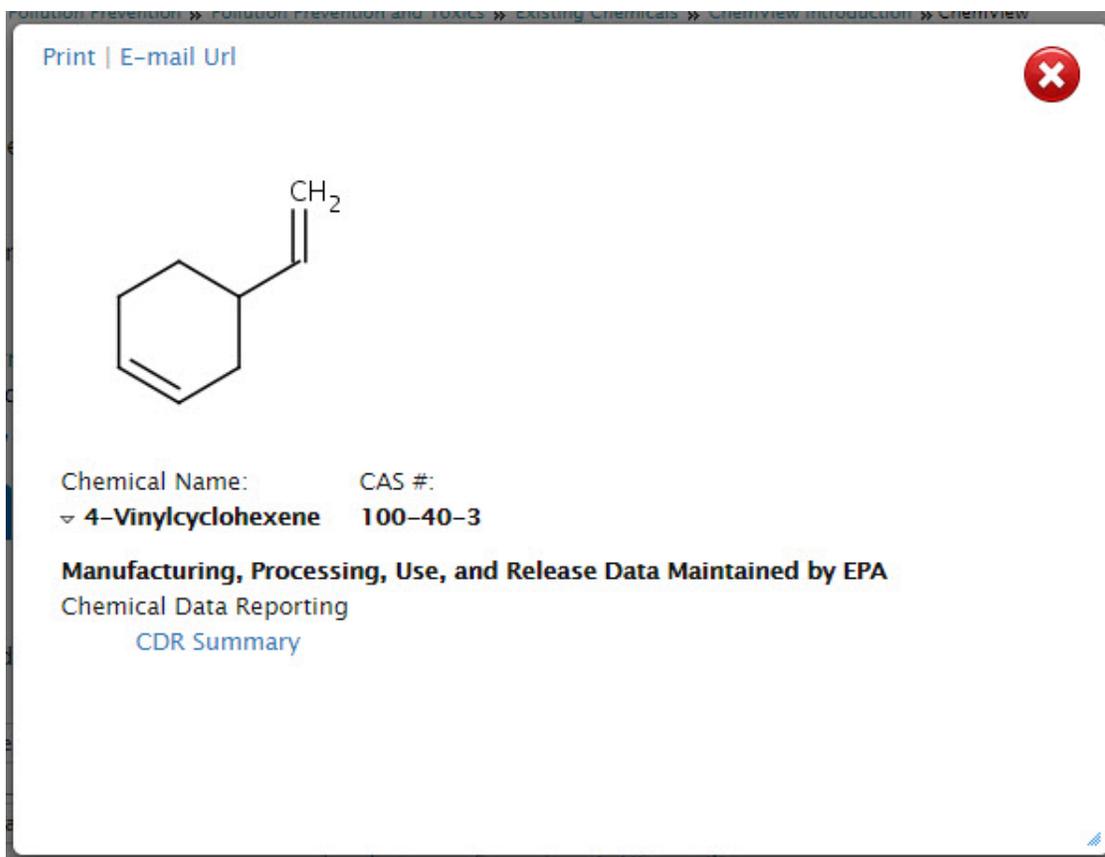
Figure CO-2. Consent Orders - 2

3. Click the “View Consent Orders” link, shown in the upper right corner of Figure CO-2. This will enable the user to open or save the corresponding PDF from the EPA server.

(end of Consent Orders)

### Chemical Data Reporting

1. In the results, click a colored square for Chemical Data Reporting details. A window will open (Figure CDR-1):



The screenshot shows a window titled "Chemical Data Reporting" for the chemical 4-Vinylcyclohexene. At the top left, there are links for "Print" and "E-mail Url". At the top right is a red close button with a white 'X'. The chemical structure of 4-Vinylcyclohexene is displayed, showing a cyclohexane ring with a vinyl group (-CH=CH<sub>2</sub>) attached to the 4-position. Below the structure, the chemical name "4-Vinylcyclohexene" and its CAS number "100-40-3" are listed. The text "Manufacturing, Processing, Use, and Release Data Maintained by EPA" is displayed in bold. Below this, "Chemical Data Reporting" is shown, with a blue link for "CDR Summary".

Print | E-mail Url

Chemical Name: CAS #:  
4-Vinylcyclohexene 100-40-3

**Manufacturing, Processing, Use, and Release Data Maintained by EPA**  
Chemical Data Reporting  
[CDR Summary](#)

Figure CDR-1. Chemical Data Reporting - 1

## Appendix – Data Sources

2. Click the “CDR Summary” link, shown in Figure CDR-1. A window will open (Figure CDR-2):

Print | E-mail Url | Export

### Chemical Data Reporting (CDR)

4-Vinylcyclohexene

CAS Number 100-40-3

Use: Commercial; Children's Products; Consumer;

Company and Site	View Submitted CDR Data	Manufactured and/or Imported?	2011 Production Volume (lb)	2010 Production Volume (lb)	Consumer and/or Is the Chemical Used in Commercial Use	Products Intended for Children?
LANXESS CORP Site : LANXESS CORP,1006 FARM ROAD,ORANGE,Orange County,TX,776312000	<a href="#">View Data</a>	MANUFACTURED	CBI	15,910	Both	No
Shell Chemical LP Site : SHELL NORCO CHEMICAL PLANT EAST SITE,15536 RIVER ROAD,NORCO,St. Charles,LA,70079-2537	<a href="#">View Data</a>	MANUFACTURED	376,962	397,518		
CBI Site : CBI	<a href="#">View Data</a>	MANUFACTURED	CBI	CBI		
KOCH INDUSTRIES INC Site : INVISTA SA RL,2695 OLD BLOOMINGTON ROAD NORTH,VICTORIA,Victoria,TX,77905-1840	<a href="#">View Data</a>	MANUFACTURED	CBI	CBI		

Figure CDR-2. Chemical Data Reporting - 2

## Appendix – Data Sources

3. Click a link in the “View Submitted CDR Data” column, shown in Figure CDR-2. A window will open (Figure CDR-3):

Print | E-mail Url

### Chemical Data Reporting

**Chemical Name :** 4-Vinylcyclohexene  
**Chemical Identifier :** 100-40-3

---

**Company Name:** Shell Chemical LP

**Site Name:** SHELL NORCO CHEMICAL PLANT EAST SITE

**Site Location:** 15536 RIVER ROAD,NORCO,St. Charles,LA,70079-2537

**Latitude:** 29.99435

**Longitude:** -90.40726

**Manufacturing Information:**

- Activity (Manufacturing or Import) : MANUFACTURED
- Manufactured volume : 376,962
- Imported production volume : 0
- 2011 production volume : 376,962
- 2010 production volume : 397,518
- Volume exported? : 0
- Volume used on site? : 376,962
- Number of workers likely exposed? : 500 – 999
- Was the chemical recycled? : NO
- Physical forms : Liquid

**Processing and Use Information:**

**Industrial Processing and Use:**

**Figure CDR-3. Chemical Data Reporting - 3**

(end of Chemical Data Reporting)

### Chemicals Subject to TSCA §12(b) Export Notification

1. In the results, click a colored square for Chemicals Subject to TSCA §12(b) Export Notification details. A window will open (Figure 12B-1):

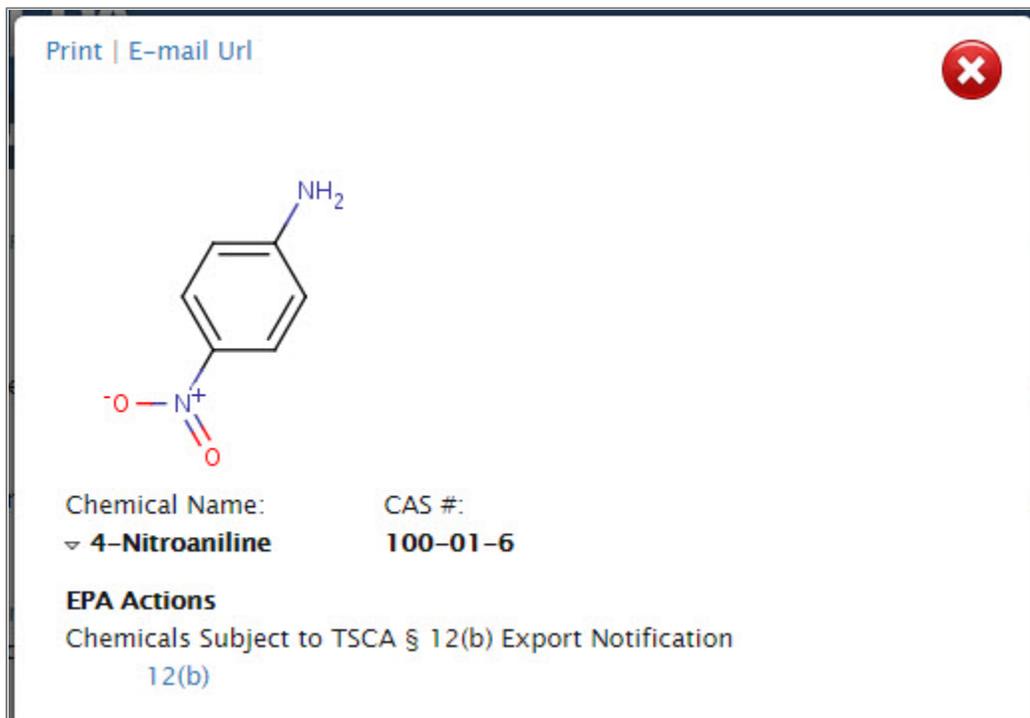


Figure 12B-1. TSCA §12(b) - 1

2. Click the “12(b)” link, shown in Figure 12B-1. A window will open (Figure 12B-2):

TSCA §12(b) Notification Name	Section	CFR Citation	FR Notice	CASRN, PMN #, Accession #	TSCA Inventory Name	Comments
4-Nitroaniline	4	40 CFR 799.5115;		100-01-6		

[View Complete Section 12\(b\) List](#)

Figure 12B-2. TSCA §12(b) - 2

3. Click the link in the “TSCA §12(b) Notification Name” column, shown in Figure 12B-2. A window will open (Figure 12B-3):

**Chemicals Subject to TSCA § 12(b) Export Notification**

**Chemical Name :** 4-nitroaniline  
**Chemical Identifier :** 100-01-6  
**Code Federal Regulation :** 40 CFR 799.5115;

---

**Section:** 4

**TSCA §12(b) Notification Name:** 4-Nitroaniline

Figure 12B-3. TSCA §12(b) - 3

## Appendix – Data Sources

4. Click the link in the “CFR Citation” column, shown in Figure 12B-2, or the link for Code Federal Regulation, shown in Figure 12B-3. The CFR will open in a browser window.

5. Click the link for View Complete Section 12(b) List.

(end of Chemicals Subject to TSCA §12(b) Export Notification)