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## ChemView

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

Please give us your feedback so we can continuously improve ChemView.

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 probably will be available in the future as EPA continues to populate the database.

CHEMICALS

ENDPOINT

DASHBOARD

OTHER SOURCES

Access via Web Services

Print

Help

**Select Search Criteria:**

Select Chemical Search Criteria and desired Output Selections.

Generate Results

Export Results

Clear All Entries

**Chemical Information**

Clear Chemical Information

exact starts with contains

**Chemical Name or CAS Number**

Enter a full or partial chemical name

**Use**

Select a 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**

Select All/Deselect All

Chemical Test Rule Data

Substantial Risk Reports

Health and Safety Studies

High Production Volume Information System

**EPA Assessments**

Select All/Deselect All

Hazard Characterizations

TSCA Risk Assessments

Integrated Risk Information System

Screening Work Plan Chemicals

Design for the Environment Alternative Assessments

Design for the Environment: Safer Chemicals Ingredients List

**EPA Actions**

Select All/Deselect All

Significant New Use Rules

Limitations on Manufacturing, Processing & Use

Pre-manufacture Notification Review Results

Consent Orders

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

Select All/Deselect All

Chemical Data Reporting

Toxics Release Inventory

Production, Use, Exposure Information

Generate Results

Export Results

Clear All Entries

Show 10 entries





Search:


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**The ChemView User Interface Guide includes:**

- Selecting Search Parameters
- Selecting Outputs
- Generating Results
- Viewing Results

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### ChemView

Use this database to get information on chemical health and safety data. For additional information about EPA's efforts to manage existing chemicals, visit [EPA's Chemical Safety and Hazard Investigation Program](#).

Please give us your feedback so we can continuously improve ChemView.

If you do not receive results for a particular chemical, it does not mean that the chemical is not regulated.

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#### Select Search Criteria:

Select Chemical Search Criteria and desired Output Selections.

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

#### Chemical Information [Clear Chemical Information](#)

exact  starts with  contains  
**Chemical Name or CAS Number**  
 Enter a full or partial chemical name

**Use**  
 Select a 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

- Select All/Deselect All
- Chemical Test Rule Data
- Substantial Risk Reports
- Health and Safety Studies
- High Production Volume Information System

##### EPA Assessments

- Select All/Deselect All
- Hazard Characterizations
- TSCA Risk Assessments
- Integrated Risk Information System
- Screening Work Plan Chemicals
- Design for the Environment Alternative Assessments
- Design for the Environment: Safer Chemicals Ingredients List

##### EPA Actions

- Select All/Deselect All
- Significant New Use Rules
- Limitations on Manufacturing, Processing & Use
- Pre-manufacture Notification Review Results
- Consent Orders

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

- Select All/Deselect All
- Chemical Data Reporting
- Toxics Release Inventory
- Production, Use, Exposure Information

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

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

**Step 1. Select Search Parameters.** In the **Select Search Criteria** section, select search parameters, including Chemical Information and Outputs. The search criteria in the Chemical Information section are processed using “AND” logic. The user can select multiple items for each criterion; these are processed as “OR”.

**Chemical Name or CAS Number** – Click above the field name to select “exact”, “starts with”, 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 or CAS number.

**Note:** The default selection is “exact”. If a chemical name or CAS number does not appear in the dropdown menu, check this setting and select a different filter if needed.

**Use, 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 the following page.

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

**Step 2. Select Outputs.** In the **Show Output Selection** section, click the checkbox beside each source you would like to appear in the results.

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

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

**Step 3. Generate Results or Export Results.** After selecting search parameters and outputs, click “Generate Results” to display results in the right pane of the window or click “Export Results” to export the results to a CSV file. To remove all selections and reset to defaults, click “Clear All Entries”. There are two sets of these buttons, at the top and bottom of the left pane; the user can click either set.

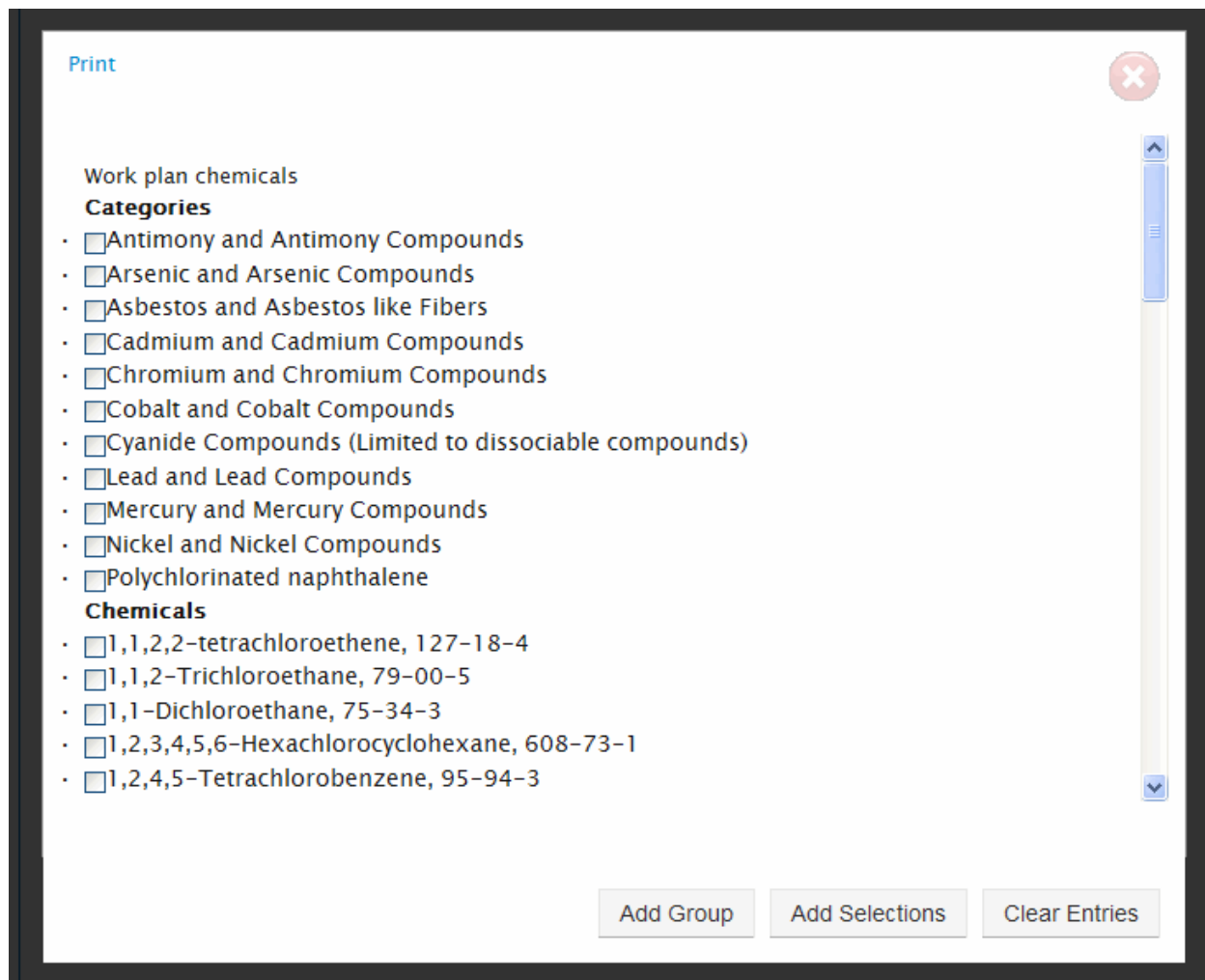
**Note:** If selecting “Export Results” and no action occurs, add “Java.epa.gov/chemview” to your trusted websites in Internet Explorer. To do so, select “Tools”, then “Internet Options”, and finally the “Security” tab. Click “Trusted sites” then click the “Sites” button to add the ChemView link.

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

### Select Search Criteria, continued:

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

**Chemical Group** – Select from the dropdown list: Safer Chemicals Ingredients List or Work plan chemicals. Another window will open with a checklist of options. An example is shown below. To add the whole group, in this example Work plan chemicals, click the “Add Group” button. To select specific categories and/or chemicals, click in the checkbox(es), then click the “Add Selections” button.



**Chemical Category** – 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 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. Check the items to select, then click the “Add Selections” button.

Print

**Endpoints**


Human Health

- Acute toxicity
- Carcinogenicity
- Dermal irritation
- Developmental toxicity
- Eye irritation
- Immunotoxicity
- Lung toxicity
- Metabolism and Pharmacokinetics
- Mutagenicity/Genetic toxicity
- Neurological toxicity
- 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.

Add Selections Clear Entries



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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**

**Effects/Endpoints**

Select a chemical endpoint

exact starts with contains

**Chemical Name or CAS Number**

Enter a full or partial chemical name

**Use**

Select a use

**Chemical Group**

Select a chemical group

**Chemical Category**

Select a chemical category

**Show Output Selection**

Select All/Deselect All Outputs

**Data Submitted to EPA**

Select All/Deselect All

Chemical Test Rule Data

Substantial Risk Reports

Health and Safety Studies

High Production Volume Information System

**EPA Assessments**

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Select All/Deselect All

Chemical Data Reporting

Toxics Release Inventory

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Generate Results
Export Results
Clear All Entries

**ENDPOINT tab search overview:**

On the CHEMICALS tab, results will display based on the chemical; however, users can use the ENDPOINT tab to display results by the source that submitted the endpoint test.





**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

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


# ChemView User Interface Guide

**Results.** The right pane displays results for selected chemicals and sources.

Show  entries

Access via Web Services Print Help

Search:

Structure	Chemical Name/ CAS#	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
	Ethyl benzene 100-41-4		■		■ ■
	Triethanolamine 102-71-6	■	■		■
	Isopropyl acetone 108-10-1	■ ■	■ ■		■ ■
	Diazo dye 2602-46-2			■	■
<b>HCl</b>	Hydrochloric acid 7647-01-0	■	■ ■ ■		■ ■

Showing 1 to 5 of 5 entries

◀ Previous Next ▶

**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

## ChemView User Interface Guide

**Results.** Results are displayed in three primary formats, described in 4A, 4B, and 4C.

Show  Search:

Structure	Chemical Name CAS#	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
	1-Chloro-4-nitrobenzene 100-00-5				
	4-Nitroaniline 100-01-6				
	4-Nitrophenol 100-02-7				
	Benzene, 1,4-bis(1-methylethyl)- 100-18-5				
	Benzaldehyde 100-52-7				
	3-Pyridinecarbonitrile 100-54-9				
	N-cyclohexylidenehydroxylamine 100-64-1				
	2-Pyridinecarbonitrile 100-70-9				
	4-(2-phenylpropan-2-yl)-n-[4-(2-phenylpropan-2-yl)phenyl]aniline 10081-67-1				
	Phosphorous acid, triphenyl ester 101-02-0				

Showing 1 to 10 of 1,085 entries ◀ Previous Next ▶

**4A.** Click a hyperlinked chemical name. A detailed view will display information from the selected output sources for which there is data for that chemical.

**4B.** 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.

**4C.** Click a colored square. Data from that source for that chemical will be displayed. For example, clicking this square will display Hazard Characterizations data for Benzaldehyde. Refer to the Appendix for more information.

# ChemView User Interface Guide

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

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











Click the toggle triangles to sort the chemicals by CAS Number, in ascending or descending order.

To filter the results further, type letters or numbers in the **Search** field. For example, typing in "tri" 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.

Show 10 entries

Access via Web Services Print Help

Search: tri

Structure	Chemical Name/ CAS#	Data Submitted to EPA	EPA Assessments	EPA Actions	Manufacturing, Processing, Use or Release
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	▼ Acrylonitrile 107-13-1		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	▼ Ethanol, 2-c 115-96-8				<input checked="" type="checkbox"/>
	▼ Tris(2,3-dibromopropyl) phosphate 126-72-7			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	▼ 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(2-oxiranylmethyl)- 2451-62-9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	▼ 1,2,3-tribromo-4-(2,3,4-tribromophenyl)benzene 36355-01-8			<input checked="" type="checkbox"/>	
	▼ Benzene 71-43-2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	▼ Phenol, 2,4,6-tris(1,1-dimethylethyl)- 732-26-3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	▼ Tribromomethane 75-25-2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	▼ 1,1,2-Trichloroethane 79-00-5		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	▼ Ethene, 1,1,2-trichloro- 79-01-6		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

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

Showing 1 to 10 of 10 entries (filtered from 67 total entries)

Previous Next

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.

Click "Next" to view the next page of results. Click "Previous" to view the previous page.



## ChemView User Interface Guide

4A. A detailed view is displayed after the user clicks a hyperlinked chemical name in the results. In this example, the user clicked Formaldehyde.

The screenshot displays a detailed view for Formaldehyde. At the top, there is a navigation bar with links for "ISSUES", "SCIENCE & TECHNOLOGY", "LAWS & REGULATIONS", and "ABOUT EPA". A search bar is visible on the right. The main content area is titled "Print" and features a close button (X) in the top right corner. The chemical name "Formaldehyde" is displayed with a dropdown arrow. Below it is the chemical structure  $\text{H}_2\text{C}=\text{O}$ . The CAS number is listed as "50-00-0". The view is organized into several sections: "Data Submitted to EPA" (Substantial Risk Reports: 8EHQ-10-18125, 8EHQ-11-18217), "EPA Assessments" (Integrated Risk Information System: IRIS), and "Manufacturing, Processing, Use, and Release Data Maintained by EPA". A vertical scrollbar is on the right side of the content area.

## ChemView User Interface Guide

4B. This screen 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.

The screenshot displays a web application interface with a dark header containing navigation links: "Advanced Search", "A-Z Index", "QUEST", "SCIENCE & TECHNOLOGY", "LAWS & REGULATIONS", and "ABOUT EPA". A search bar is visible on the right. A white modal window titled "Print" is open, showing a table with two columns: "Chemical Name" and "Data Submitted to EPA".

Chemical Name	Data Submitted to EPA
1,4-Dimethylbenzene 106-42-3	Chemical Test Rule Data <b>Human Health</b> • <a href="#">Metabolism and Pharmacokinetics (1)</a>
1,4-Dichlorobenzene 106-46-7	Chemical Test Rule Data <b>Human Health</b> <a href="#">HPVIS</a> • <a href="#">Metabolism and Pharmacokinetics (1)</a> • <a href="#">Reproductive toxicity (1)</a>
Ethylene dibromide 106-93-4	<a href="#">8E</a>  <a href="#">HPVIS</a>
Acetic acid, chromium(3+) salt (3:1) 1066-30-4	<a href="#">8E</a>
1,2-Dichloroethane 107-06-2	Chemical Test Rule Data <b>Human Health</b> • <a href="#">Metabolism and Pharmacokinetics (1)</a>

Additional information can be accessed by clicking hyperlinks.

4C. 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 Hazard Characterizations data for Benzaldehyde.

The screenshot displays a web-based interface for chemical data. At the top left, there is a "Print" button. The main content area shows the chemical name "Benzaldehyde" with a dropdown arrow, and its CAS number "100-52-7". To the left of the name is a chemical structure of benzaldehyde. Below the name and CAS number, there is a section titled "EPA Assessments" with a sub-section "Hazard Characterizations". This section lists several categories with hyperlinks: "Ecotoxicity", "Acute aquatic toxicity (3)", "Human Health", "Acute toxicity (3)", "Carcinogenicity (2)", "Developmental toxicity (1)", and "Mutagenicity/Genetic toxicity (4)". A callout box on the right side of the interface states: "Additional information can be accessed by clicking hyperlinks." The interface also features a vertical scrollbar on the right and a search bar at the bottom.

Print

Chemical Name:  
▼ Benzaldehyde

CAS #:  
100-52-7

**EPA Assessments**  
Hazard Characterizations

- Ecotoxicity
- [Acute aquatic toxicity \(3\)](#)
- Human Health
- [Acute toxicity \(3\)](#)
- [Carcinogenicity \(2\)](#)
- [Developmental toxicity \(1\)](#)
- [Mutagenicity/Genetic toxicity \(4\)](#)

Additional information can be accessed by clicking hyperlinks.

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

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Print

Click "Print" to print the contents of the window.

Click the red "x" to close the window.

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

Click and drag to expand the window.

Chemical Name:  
▼ 1,1'-Oxydibenzene

Oc1ccc(Oc2ccccc2)cc1

CAS #:  
101-84-8

**Data Submitted to EPA**  
High Production Volume Information System  
HPVIS

**EPA Assessments**  
Hazard Characterizations  
Ecotoxicity  
Acute aquatic toxicity (3)  
Environmental fate  
Bioaccumulation/ Bioconcentration (4)  
Persistence (4)

## Appendix – 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):

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Print

Chemical Name:  
▼ **4,4'-Methylenebis(2,6-di-tert-butylphenol)**

CC(C)(C)c1cc(O)ccc1Cc2cc(O)ccc2C(C)(C)C

CAS #:  
**118-82-1**

**Data Submitted to EPA**

- Chemical Test Rule Data
- Environmental fate
- [Persistence \(1\)](#)
- Human Health
- [Acute toxicity \(6\)](#)
- [Developmental toxicity \(5\)](#)
- [Mutagenicity/Genetic toxicity \(4\)](#)
- [Reproductive toxicity \(3\)](#)

Figure TR-1. Chemical Test Rule Data – 1

## Appendix – Chemical Test Rule Data

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

Study Type	Strain	Study Results	View Robust Summary	Type of Testing Submitted	Testing Other	Protocol/guideline	Year Study Performed	Duration of Study	Number of Organisms per Group	Test Substance Purity/Composition	Doses/Concentration
<a href="#">Reproductive/Developmental Toxicity Study</a>	CFN	NOAEL (developmental) = 1.25% in feed		Required Test Rule Testing		OPPTS 870.3550 (OECD 421) – Reproduction/Development Toxicity Screening Test (Human Health)	1961	~46 days	10 males and 50 females	At least 95%	0, 0.125%, 0.5%, 1.25% in feed
<a href="#">Three-Generation Reproduction Toxicity Study</a>	CD	NOAEL or LOAEL (developmental) = Not determined	<a href="#">View Pdf</a>	Required Test Rule Testing	Not specified		1969	Three generations	20 females and 10 males		0, 15, 60, 100, 5000 ppm in feed (corn oil)

Figure TR-2. Chemical Test Rule Data – 2

3. Click a “View Pdf” link. This will open the corresponding robust summary, which will be a PDF displayed from the EPA server.

## Appendix – Chemical Test Rule Data

4. 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:

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

**Chemical Name :** Phenol, 4,4'-Methylenebis[2,6-bis(1,1-Dimethylethyl)-  
**CAS Number :** 118-82-1  
**Federal Register Citation :** 71FR13708; 76FR1067;  
**Code Federal Regulation :** 40 CFR 799.5085;

**Human Health:**

- Developmental toxicity
  - Study Type : Developmental study
  - Type of Testing Submitted : Required Test Rule Testing
  - Protocol/guideline
    - OPPTS 870.3550 (OECD 421) - Reproduction/Development Toxicity Screening Test (Human Health)
  - Good Lab Practices
    - No
  - Year Study Performed : 1970
  - Was the Study
    - Modified
  - Duration of Study : 10 days

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

5. Click the “View Full Test” link, shown in the upper right corner of Figure TR-3. This will open the corresponding PDF on the EPA server.

6. Click a link for Federal Register Citation. A window will open, similar to Figure TR-4:

The screenshot shows the EPA regulations.gov website. The main heading is "Testing of Certain High Production Volume Chemicals: Second Group of Chemicals". Below the heading, it states "This Rule document was issued by the Environmental Protection Agency (EPA)". There are sections for "Action" (Final rule), "Summary" (EPA is promulgating a final rule under section 4(a)(1)(B) of the Toxic Substances Control Act (TSCA) to require manufacturers, importers, and processors of certain high production volume (HPV) chemical substances to conduct testing to obtain screening level data for health and environmental effects and chemical fate), "Dates" (This final rule is effective February 7, 2011), and "Addresses" (EPA has established a docket for this action under docket identification (ID) number EPA-HQ-OPPT-2007-0531). There is also a "For Further Information Contact" section with technical and general information contacts. On the right side, there is a "Document Information" sidebar with fields for ID, original printed format, date posted, RIN, CFR, and Federal Register Number. Below that is a "Comments" section showing 0 comments received, and a "Docket Information" section.

Figure TR-4. Chemical Test Rule Data – 4

7. Click the “View Robust Summary” link, shown at the bottom of Figure TR-3. This will open the corresponding PDF on the EPA server.

(end of Chemical Test Rule Data)



## Appendix – 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 High Production Volume Information System (HPVIS) web interface. The header includes the U.S. Environmental Protection Agency logo and the text "U.S. ENVIRONMENTAL PROTECTION AGENCY". The main title is "High Production Volume Information System (HPVIS)". Below the title, there is a search bar with "Search: All EPA This Area" and a "Go" button. A breadcrumb trail indicates the user's location: "You are here: EPA Home > Prevention, Pesticides & Toxic Substances > Pollution Prevention & Toxics > High Production Volume Information System > Detailed Chemical Results".

The main content area is titled "Detailed Chemical Results" and provides information for the chemical "Propanenitrile" (CAS Number: 107-12-0). It includes a note: "Click on the endpoint link to see the data on a tab page." The results are organized into several categories:

- Physical-Chemical SIDS**
  - [Melting Point\(1\)](#)
  - [Boiling Point\(1\)](#)
  - [Vapor Pressure\(2\)](#)
  - [Partition Coefficient\(2\)](#)
  - [Water Solubility\(3\)](#)
- Physical-Chemical Other**
  - [Density/Specific Gravity\(1\)](#)
  - [Flash Point\(1\)](#)
- Fate SIDS**
  - [Photodegradation\(1\)](#)
  - [Stability in Water\(1\)](#)
  - [Transport Between Environmental Compartments Fugacity/Dist\(1\)](#)
  - [Biodegradation\(3\)](#)
- EcoToxicity SIDS**
  - [Acute Toxicity to Aquatic Vertebrates\(3\)](#)
  - [Acute Toxicity to Aquatic Invertebrates\(1\)](#)
  - [Acute Toxicity to Aquatic Plants\(3\)](#)
- Mammalian Health Effects SIDS**
  - [Acute Toxicity\(7\)](#)
  - [Repeated-Dose Toxicity\(4\)](#)
  - [Genetic Toxicity in vivo\(1\)](#)
  - [Genetic Toxicity in vitro\(3\)](#)
  - [Reproductive Toxicity\(6\)](#)
  - [Developmental Toxicity/Teratogenicity\(1\)](#)
- Mammalian Health Effects Other**
  - [Pharmacokinetics and Metabolism\(2\)](#)

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

## Appendix – High Production Volume Information System

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

The screenshot displays the HPVIS web interface. At the top, the U.S. Environmental Protection Agency logo and name are visible. The main header reads 'High Production Volume Information System (HPVIS)'. Below this is a search bar with options for 'All EPA' and 'This Area', and a 'Go' button. A breadcrumb trail indicates the current location: 'You are here: EPA Home > Prevention, Pesticides & Toxic Substances > Pollution Prevention & Toxics > High Production Volume Information System > Endpoint Details'. The main content area is titled 'Endpoint Details' and features a 'Return to Detail Query Results' button. Two tabs, 'Study 1' and 'Study 2', are visible. A 'Print Robust Summary' button is located on the left. The central data table is titled 'Vapor Pressure' and contains the following information:

Test Substance - Vapor Pressure	
Category Chemical:	(107-12-0) Propanenitrile
Test Substance:	(107-12-0) Propanenitrile
Test Substance Purity/Composition and Other Test Substance Comments:	Smiles Code: C(=N)CC Molecular formula: C3H5N Molecular weight: 55.079 Purity type: typical for marketed substance Substance type: organic Physical status: liquid Purity: = 99.6% w/w Colour : clear Odour : pungent Ref: Solutis, Inc. Material Safety Data Sheet for propionitrile, refined grade, dated March 14, 2003. SYNONYMS AND TRADENAMES Cyanoethane; ethyl cyanide; propanenitrile; propionic nitrile; propionitrile; propynitrile Remark: Purity of material is 99.6%
Category Chemical Result Type:	Measured
Test Substance Result Type:	Measured
Results - Vapor Pressure	
Vapor Pressure Value/Range (Pressure):	= 52 hPa @ Temperature: 20 °C

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)

## Appendix – 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 "Print" with a close button in the top right corner. The window displays the following information:

- Chemical Name:** 4-Nitroaniline
- CAS #:** 100-01-6
- EPA Assessments:**
  - Hazard Characterizations
    - Ecotoxicity
      - Acute aquatic toxicity (5)
    - Environmental fate
      - Bioaccumulation/ Bioconcentration (1)
      - Persistence (4)
    - Human Health
      - Acute toxicity (3)

The chemical structure of 4-Nitroaniline is shown as a benzene ring with a nitro group (NO<sub>2</sub>) at the 4-position and an amino group (NH<sub>2</sub>) at the 1-position. The window also features a vertical scrollbar on the right side.

Figure HC-1. Hazard Characterizations - 1

## Appendix – Hazard Characterizations

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):

Substantial Risk Reports

Print

### 4-Nitroaniline

100-01-6

Acute aquatic toxicity

Study type	Species	Summary
Estimated by Analogy	Daphnia magna	Daphnia magna were exposed to 2-nitrobenzeneamine at concentrations of 6.25, 12.5, 25, 50 and 100mg/L under static conditions for 48 hours. 48-h EC50 =14.5 mg/L.2-Nitrobenzeneamine (CASR N 88-74-4)
Experimental	Daphnia magna	Daphnia magna were exposed to 4-nitrobenzeneamine for 48 hours under static conditions using nominal concentrations. The test concentrations ranged between 3.2 and 32 mg/L, spaced logarithmically. 48-h LC50 = 20 mg/L
Estimated by analogy	Brachydanio rerio	Zebrafish (Brachydanio rerio) were exposed to measured concentrations of 2-nitrobenzeneamine (test concentration values were not provided) of under semi-static conditions for 96 hours. 96-h LC50 = 19.5 mg/L.2-Nitrobenzeneamine (CASRN 88-74-4)
Experimental	Salmo gairdneri	Rainbow trout (Salmo gairdneri) were exposed to nominal concentrations of 4-nitrobenzeneamine ranging from 5.6 to 100 mg/L under static conditions for 96 hours. No deaths were seen at concentrations up to 32 mg/L. At 56 mg/L, mortality was 80% after 24 hours and 90% after 48 and 96 hours. Mortality was 100% at 100 mg/L at all three time points. 96-h LC50 = 45 mg/L
Experimental	Scenedesmus sp.	Green algae (Scenedesmus sp.) was exposed to 4-nitrobenzeneamine at five nominal concentrations under static conditions for 48 hours. The 48-hour EC50 for growth rate inhibition was 54.9 mg/L. The submitted study duration deviates from the standard 72- or 96-hour algal toxicity study duration. The 96-hour EC50 value of 7.29 mg/L for this endpoint was estimated using ECOSAR (v1.00). 48-h EC50 (growth) = 54.9 mg/L 96-h EC50 (growth) = 7.29 mg/L (estimated)

[View Hazard Characterizations Summary](#)

Figure HC-2. Hazard Characterizations - 2

3. Click a link in the “Study type” column, shown in Figure HC-2. A window will open (Figure HC-3):

The screenshot shows a window titled "Hazard Characterizations" with a "Print" button in the top left and a close button in the top right. The window content is as follows:

**Hazard Characterizations** [View Hazard Characterizations](#)

**Chemical Name :** 4-Nitroaniline  
**CAS Number :** 100-01-6  
**Chemical Category:** Mononitroanilines Category;

---

**Human Health:**

- **Developmental toxicity**
  - **Summary :** Pregnant Sprague-Dawley rats (25 females /group) were administered 4-nitrobenzeneamine in corn oil via gavage at doses of 25, 85 and 250 mg/kg-bw/day during gestation days 6 - 19. There was no maternal toxicity, embryotoxicity or fetotoxicity at 25 mg/kg-bw/day. At 85 mg/kg-bw/day, significantly increased mean maternal spleen weights and reduced mean fetal weights (both sexes) were observed. At 250 mg/kg-bw/day, maternal toxicity was evidenced by reduced body weight gains, pale eye coloration and occasional convulsions after dosing, significantly increased mean number of resorptions and percent resorptions and significantly increased mean spleen weights (absolute and relative). Significant lower mean fetal weights (both sexes), increase in number of fetuses with delayed or no ossification and increase in number of fetuses with external, soft tissue or skeletal malformations (predominantly kinked or shortened tail, absence of kidneys or ureter and fused ribs) were seen at 250 mg/kg-bw/day. LOAEL (maternal toxicity) = 85

Figure HC-3. Hazard Characterizations - 3

4. Click the “View Hazard Characterizations Summary” link, shown in Figure HC-2. A window will open displaying the summary (Figure HC-4):

[Print](#) ✕

---

**Hazard Characterizations** [View Hazard Characterizations](#)

**Chemical Name :** 4-Nitroaniline  
**CAS Number :** 100-01-6  
**Chemical Category:** Mononitroanilines Category;

---

**Human Health:**

- Acute toxicity
  - Acute toxicity of the category chemicals via oral (rats), inhalation (rats) and dermal (rabbits) routes is low.
- Repeated dose toxicity
  - This chemical is of high concern via the oral and inhalation routes in rats. Repeated-dose studies with CASRN 100-01-6 in rats via gavage and inhalation showed effects on spleen and hematological parameters at 3 mg/kg/day and 0.01 mg/L, respectively. NOAELs were not established in these studies. Repeated-dose studies with CASRN 88-74-4 in rats via inhalation showed hematological effects at 0.093 mg/L; the NOAEL was 0.0098 mg/L.
- Reproductive toxicity
  - This chemical is of high concern via the oral route in rats. In an oral two-generation reproductive toxicity study in rats with CASRN 100-01-6, a statistically significant reduction in pregnancy rate was observed at 9 mg/kg/day; the NOAEL for reproductive

Figure HC-4. Hazard Characterizations - 4

## Appendix – Hazard Characterizations

5. Click the “Hazard Characterizations” link, shown in the upper left corner of Figures HC-3 and HC-4. A window will open (Figure HC-5):

The screenshot shows the HPVIS website interface. The header includes the EPA logo and the text "U.S. ENVIRONMENTAL PROTECTION AGENCY". The main title is "High Production Volume Information System (HPVIS)". Below the title 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 content area is titled "HPV Chemical Hazard Characterizations". It contains a paragraph explaining that these characterizations are evaluations of hazard (toxicity) data submitted through the High Production Volume Challenge. It also includes a search box and a link to "See chemicals with hazard characterizations by CAS Numbers".

Below the text is a table with three columns: "Submission Name", "Posted Date", and "View HPVIS Data". The table lists several chemical submissions with their respective dates and links to view chemical data.

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-Ethanediol, 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-hexakis(methoxymethyl)- (PDF)</a> (11 pp, 91.9 KB) <a href="#">List Chemical(s)</a>	DECEMBER 2007	<a href="#">View Chemical Data</a>
<a href="#">1,3,5-Triazine-2,4,6-triamine, 1,3,5-trisoxiranymethyl- (PDF)</a> (16 pp, 156 KB) <a href="#">List Chemical(s)</a>	DECEMBER 2009	<a href="#">View Chemical Data</a>
<a href="#">1,3,5-tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6,1H,3H,5H-trione (PDF)</a> (11 pp, 48 KB) <a href="#">List Chemical(s)</a>	JUNE 2010	<a href="#">View Chemical Data</a>
<a href="#">1,3-Butanediol (PDF)</a> (14 pp, 115 KB) <a href="#">List Chemical(s)</a>	SEPTEMBER 2010	<a href="#">View Chemical Data</a>
<a href="#">1,3-Dioxolane (PDF)</a> (12 pp, 93 KB) <a href="#">List Chemical(s)</a>	SEPTEMBER 2009	<a href="#">View Chemical Data</a>
<a href="#">1,3-Dioxolane (PDF)</a> (12 pp, 93 KB) <a href="#">List Chemical(s)</a>	SEPTEMBER 2009	<a href="#">View Chemical Data</a>

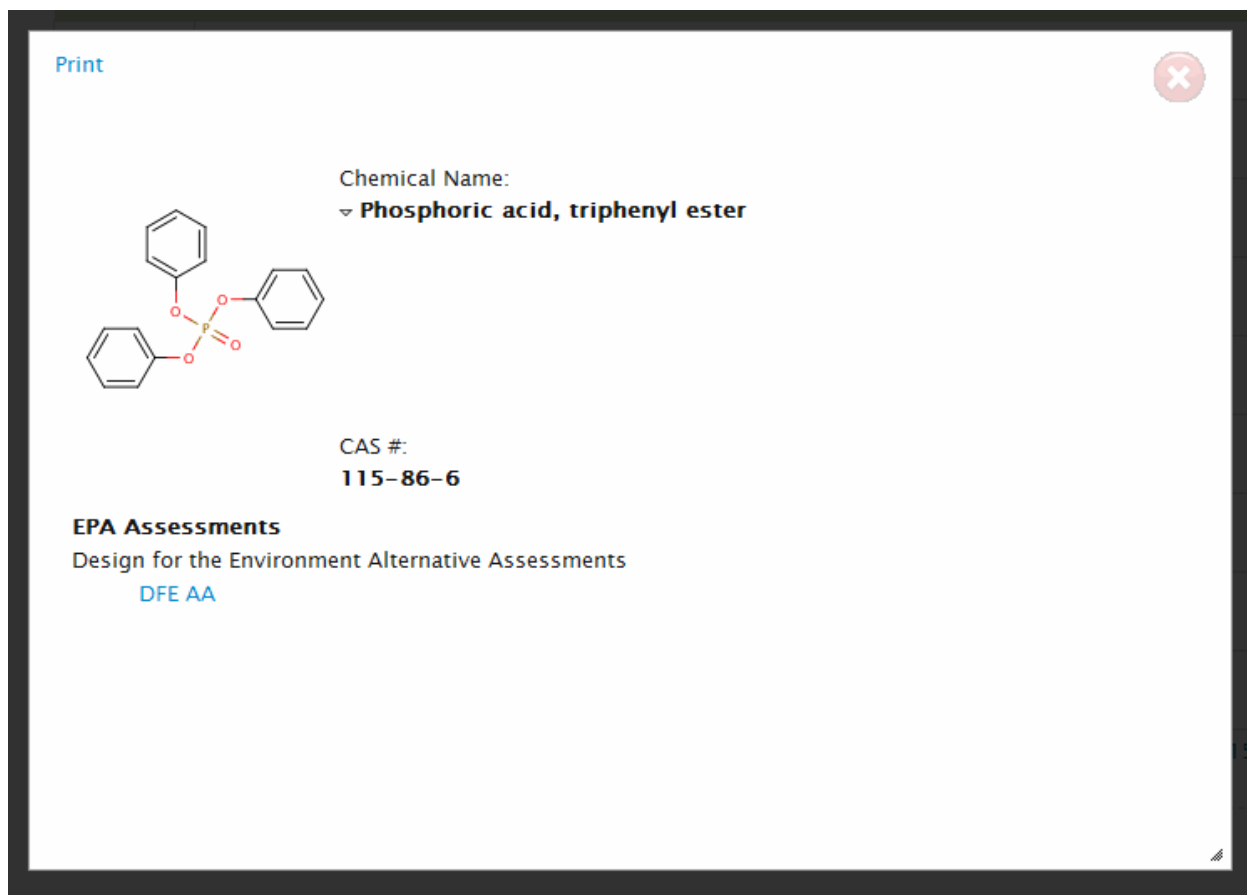
Figure HC-5. Hazard Characterizations - 5

6. Click the “View Hazard Characterizations” link, shown in the upper right corner of figures HC-3 and HC-4. This will enable the user to open or save the corresponding PDF from the EPA server.

(end of Hazard Characterizations)

## Appendix – 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):



The screenshot shows a window with a white background and a black border. In the top-left corner, there is a blue "Print" button. In the top-right corner, there is a red circular button with a white "X". The main content area contains the following information:

- Chemical Name:**  
▼ **Phosphoric acid, triphenyl ester**
- CAS #:**  
**115-86-6**
- EPA Assessments**  
Design for the Environment Alternative Assessments  
[DFE AA](#)

On the left side of the window, there is a chemical structure diagram of triphenyl phosphite, showing a central phosphorus atom bonded to three oxygen atoms, each of which is bonded to a phenyl ring. The phosphorus atom is also bonded to two double-bonded oxygen atoms.

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



## Appendix – Design for the Environment Alternative Assessments

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

The screenshot shows a web application window titled "Design for the Environment : Alternative Assessment". The main content area displays information for "Triphenyl Phosphate" (CAS 115-86-6), with a "Version: Draft" and "Date: July 2012". The assessment is organized into three main sections: Human Health, Ecotoxicity, and Environmental fate. Each section contains a table of endpoints and their hazard levels. A legend on the right explains the hazard levels: VL (Very Low hazard), L (Low hazard), M (Moderate hazard), H (High hazard), and VH (Very High hazard). It also notes that endpoints marked with an asterisk (\*) were assigned using estimation software and professional judgement.

Human Health	
Acute toxicity	L
Carcinogenicity	M*
Mutagenicity/Genetic toxicity	L
Reproductive toxicity	L
Developmental toxicity	L
Neurological toxicity	L
Repeated dose toxicity	M
Skin sensitization	L
Eye irritation	L
Dermal irritation	VL

Ecotoxicity	
Acute aquatic toxicity	VH
Chronic aquatic toxicity	VH

Environmental fate	
Persistence	L
Bioaccumulation/ Bioconcentration	M

**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 window will open (Figure AA-3):

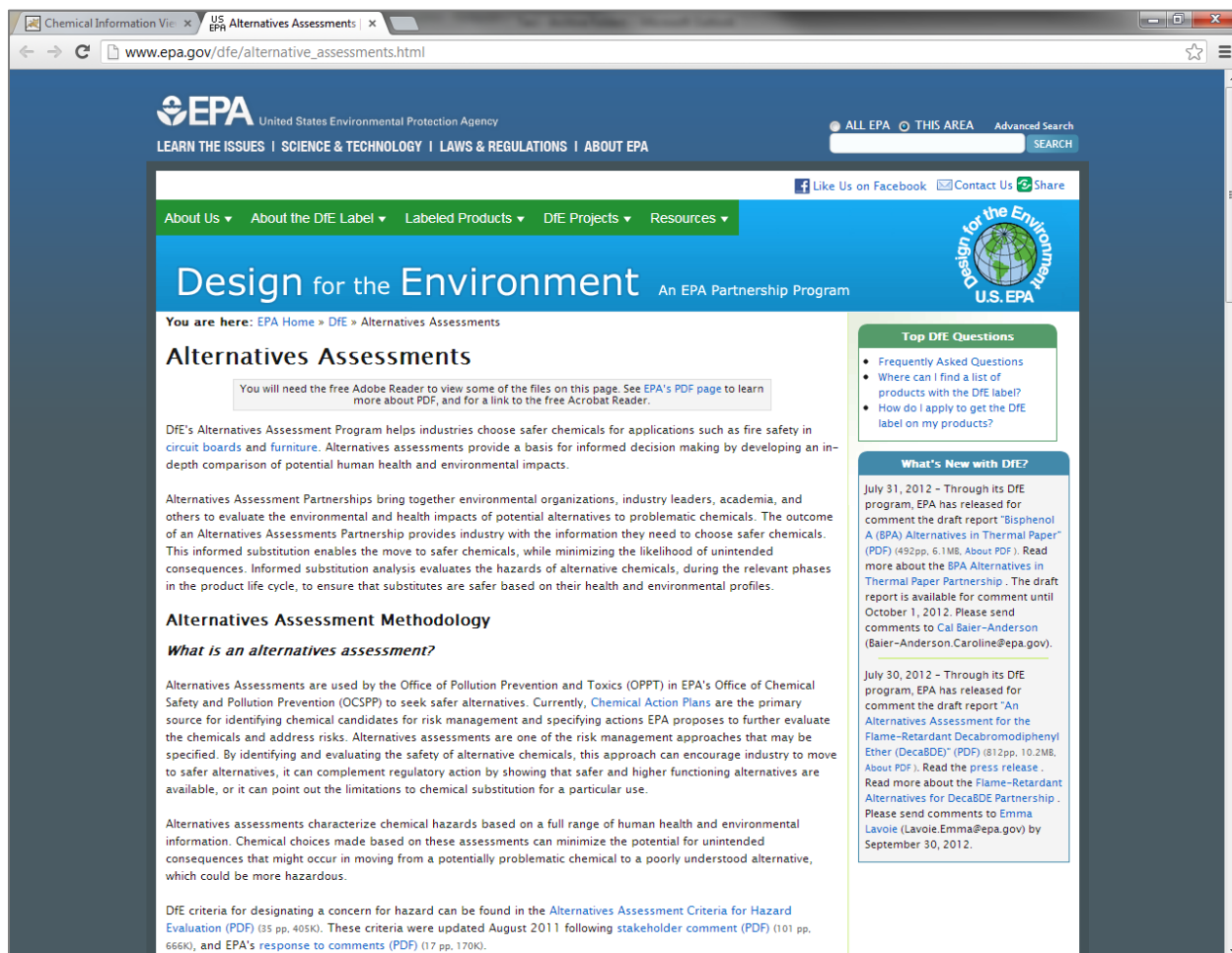


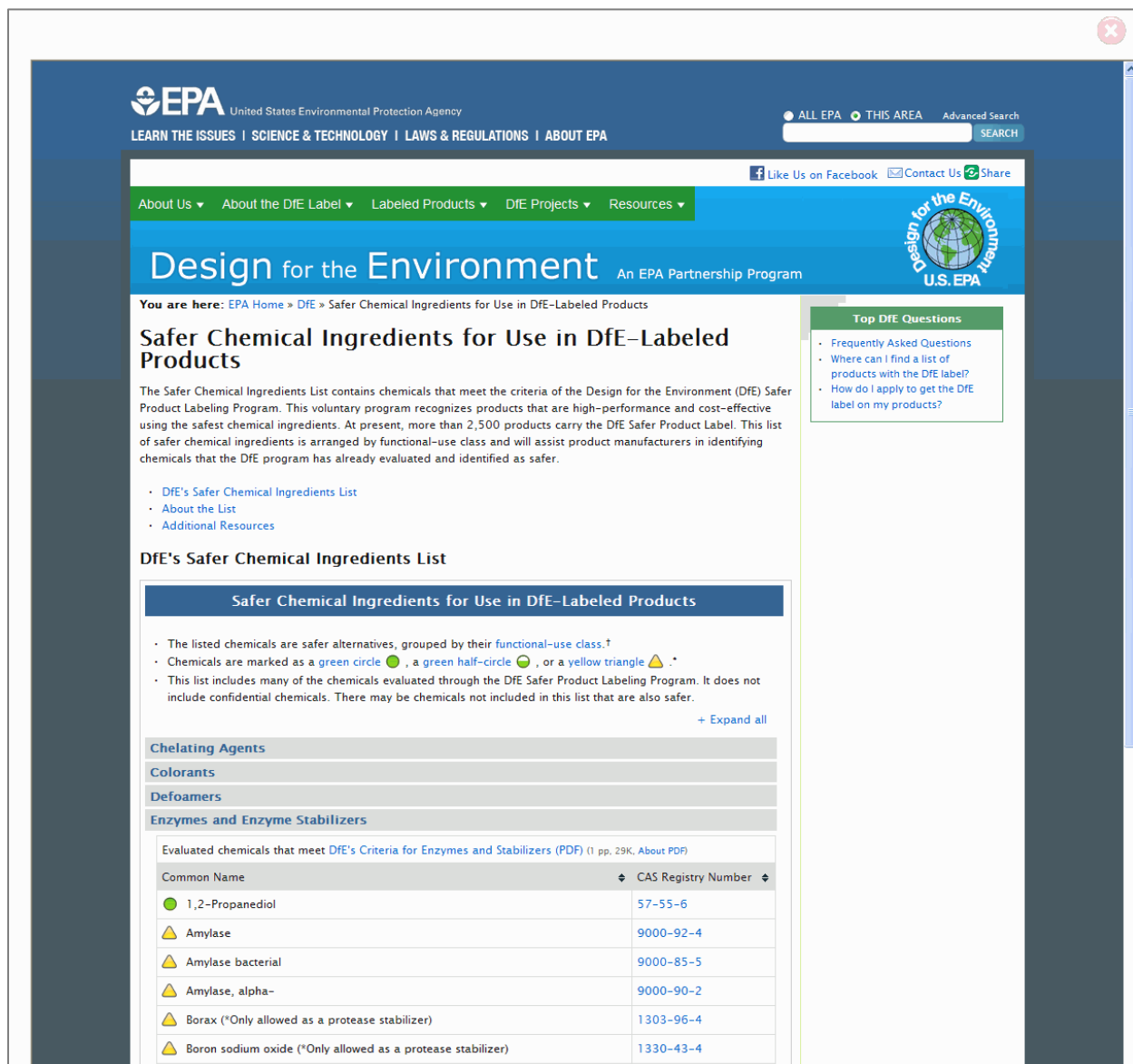
Figure AA-3. Design for the Environment Alternative Assessments - 3

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)

## Appendix – 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 the EPA Design for the Environment website. The main heading is "Design for the Environment An EPA Partnership Program". The page title is "Safer Chemical Ingredients for Use in DfE-Labeled Products". The content includes a description of the Safer Chemical Ingredients List, a list of links, and a table of evaluated chemicals. The table is titled "Enzymes and Enzyme Stabilizers" and lists chemicals with their CAS Registry Numbers and safety indicators (green circle, green half-circle, or yellow triangle).

**Enzymes and Enzyme Stabilizers**

Evaluated chemicals that meet DfE's Criteria for Enzymes and Stabilizers (PDF) (1 pp, 29K, About PDF)

Common Name	CAS Registry Number
● 1,2-Propanediol	57-55-6
▲ Amylase	9000-92-4
▲ Amylase bacterial	9000-85-5
▲ Amylase, alpha-	9000-90-2
▲ Borax (*Only allowed as a protease stabilizer)	1303-96-4
▲ Boron sodium oxide (*Only allowed as a protease stabilizer)	1330-43-4

Figure SC-1. Safer Chemicals Ingredients List

2. Click the CAS Registry Number for additional information.

(end of SCIL)

## Appendix – 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):

The screenshot shows a window titled "SCIENCE & TECHNOLOGY LAWS & REGULATIONS ABOUT EPA" with a "Print" button in the top left and a close button in the top right. The main content area displays:

- Chemical Name:** potassium;2-[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctylsulfonyl(propyl)amino]acetate
- CAS #:** 55910-10-6
- EPA Actions:** Significant New Use Rules, with a link for [SNUR](#).

A ball-and-stick model of the chemical structure is shown on the left. It features a long, zig-zag hydrocarbon chain with 17 carbon atoms, where most are substituted with fluorine atoms. The chain is terminated by a sulfonyl group (-SO<sub>2</sub>-) which is connected to a propylamino group (-NH-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>3</sub>). This propylamino group is further connected to an acetate group (-CH<sub>2</sub>-COO<sup>-</sup>), which is associated with a potassium ion (K<sup>+</sup>).

Figure SN-1. Significant New Use Rules - 1

## Appendix – Significant New Use Rules

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

The screenshot shows a web browser window with a dark header containing navigation links: "SCIENCE & TECHNOLOGY", "LAWS & REGULATIONS", and "ABOUT EPA". The window title is "Significant New Use Rules" and includes a "Print" button and a close button. The main content area displays the following information:

- Chemical Name :** Potassium;2-[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctylsulfonyl(propyl)amino]acetate
- CAS Number :** 55910-10-6
- Federal Register Citation :** 67 FR 72863 December 9, 2002; 72 FR 57222 October 9, 2007;
- Code Federal Regulation :** 40 CFR 721.9582;
- Use :** Finishing agent;Paint additive and coating additive;
- Chemical Category:** Perfluoro Compounds;

Below this information, a section titled "Significant New Use Rule for:" contains the text: "Potassium;2-[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctylsulfonyl(propyl)amino]acetate , 55910-10-6".

A "PMN Number:" section states: "Chemical did not go through EPA's new chemical review program".

A "What is a Significant New Use Rule (SNUR)?" section explains: "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..."

Figure SN-2. Significant New Use Rules - 2

## Appendix – Significant New Use Rules

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 the EPA website page for TSCA Section 5 Significant New Use Rules. The page header includes the EPA logo and the text 'U.S. ENVIRONMENTAL PROTECTION AGENCY'. The main content area is titled 'Existing Chemicals' and 'TSCA Section 5 Significant New Use Rules'. It contains a search bar, a breadcrumb trail, and a list of factors for determining significant new use. The page also includes a sidebar with navigation links and a footer with contact information and a last updated date of August 26, 2013.

**Existing Chemicals**

**TSCA Section 5 Significant New Use Rules**

Section 5(a) of the Toxic Substances Control Act (TSCA) authorizes EPA to determine if a use of a chemical substance is a "significant new use." EPA must make this determination by rule after considering all relevant factors, including those listed in TSCA section 5(a)(2):

- 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.

Once EPA determines that a use of a chemical substance 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.

This provides EPA with an opportunity to review and evaluate the data before the submitter begins manufacturing (including importing), or processing for the significant new use. EPA may then regulate the manufacture (including import), or processing of that chemical substance before the initiation of the significant new use, if regulation is warranted.

EPA also uses significant new use rules (SNURs) in appropriate circumstances to ensure that, once a chemical has been phased out or taken off the market for certain uses, no company will be able to resume manufacturing or processing the chemical for that use without prior notice to the Agency. These are sometimes referred to as "dead chemical SNURs." This action can prevent older chemical substances that we now know to be dangerous from returning to the market after responsible companies have replaced them with safer substances.

Examples of recent existing chemical substance SNURs include EPA's:

- [HPV4 SNUR/Proposed Test Rule](#)
- [Proposal on 14 glymes](#)
- [Actions on various perfluorinated compounds](#)
- [Use of elemental mercury in certain motor vehicle switches](#)
- [Certain polybrominated diphenyl ethers](#) once commonly used as flame retardants.

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

<http://www.epa.gov/opptintr/existingchemicals/pubs/sect5a2.html>

[Print As-Is](#)

Last updated on Monday, August 26, 2013

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. The corresponding PDF will be displayed from the EPA server.

(end of SNUR)