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**Hazardous Substance Information System (HSIS)
User Instruction Manual**

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INTRODUCTION

Welcome to the HSIS User Instruction Manual.

This manual will guide you through the HSIS and help you find hazardous substance information and exposure standards.

The manual is set out in three sections:

- 1) Basic Search – an introduction to the Basic HSIS user interface
- 2) Advanced Search – an introduction to the Advanced HSIS user interface.
- 3) Quick Reference – labelled images of the search screens for quick reference.

To begin, open the Safe Work Australia website (www.safeworkaustralia.gov.au) and select HSIS.



The following window will be displayed:



On the left of the screen is the *navigation bar* and to the right is the *main screen*. The information contained on this screen will vary depending on your selection from the navigation bar.

NAVIGATION BAR

The *navigation bar* provides you with several choices. Selecting a link on the *navigation bar* will take you to one of the following screens.



HSIS Home

Returns you to the HSIS homepage.

Search Hazardous Substances

Allows you to search the database for hazardous substances.

Search Exposure Standards

Allows you to search the database for exposure standards.

HSIS – Consolidated Lists

Provides you with the complete lists of substances in the searchable database available at the [Search Hazardous Substances](#) page. The lists are formatted as pdf files which you may save to your computer or print.

User Instruction manual

Opens this instruction manual as a pdf.

Data History

Summarises recent updates made to the hazardous substances classifications and exposure standards.

News and Updates

Provides news and updates on the HSIS application.

Links

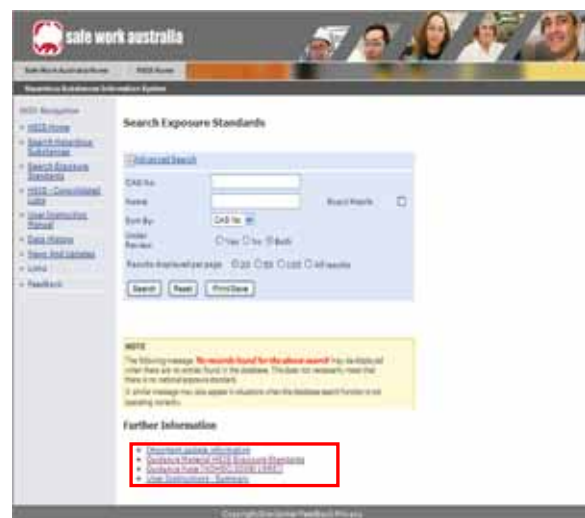
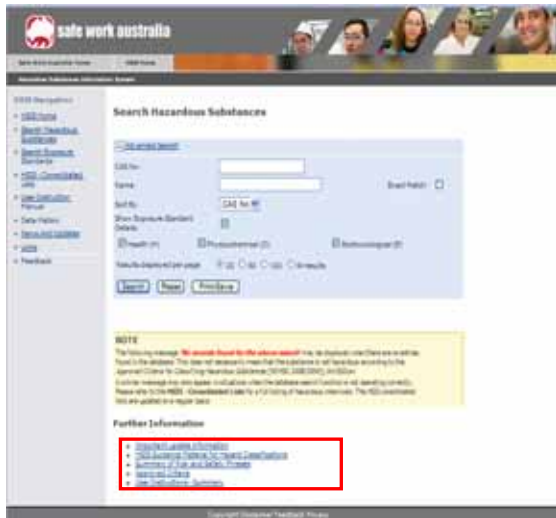
Reference links to internet sites related to hazardous substances and exposure standards.

Feedback

Allows you to provide feedback on the HSIS by email.

GUIDANCE MATERIAL

At the bottom of each search screen are links to guidance material.



Hazardous Substances Search Screen

Guidance materials available from this search screen are:

HSIS Guidance Material for Hazard Classifications: Provides detailed guidance on interpreting the hazardous substances data provided in HSIS.

Summary of Risk and Safety Phrases: Provides a reference list for the Risk and Safety Phrases used in HSIS.

Approved Criteria: Link to the *Approved Criteria for Classifying Hazardous Substances* [NOHSC:1008(2004)]

User Instructions – Summary: Quick reference to the functions of the search screen.

Exposure Standards Search Screen

Guidance materials available from this search screen are:

Guidance Material HSIS Exposure Standards: Provides detailed guidance on interpreting the exposure standards in HSIS.

Guidance Note [NOHSC:3008(1995)]: Provides detailed information on exposure to atmospheric contaminants in the workplace.

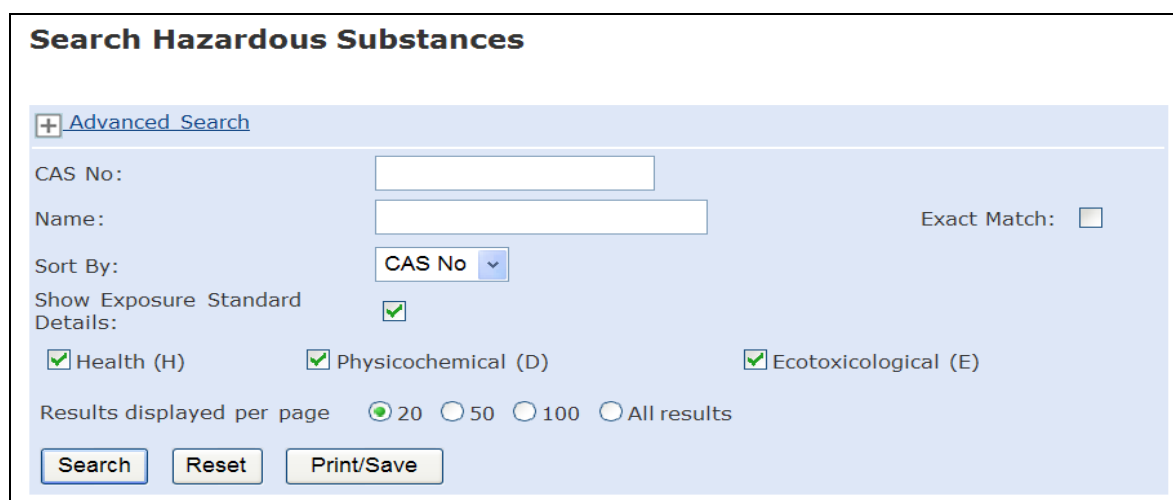
User Instructions – Summary: Quick reference to the functions of the search screen.

BASIC SEARCH

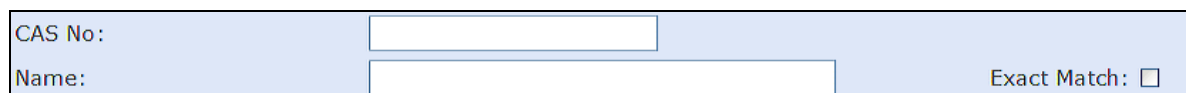
The Search Hazardous Substances screen in HSIS allows you to search for hazardous substances using either a Name or Chemical Abstracts Service (CAS) number. Additional search parameters are available using the [Advanced Search](#) screen, which is covered in the next section of this manual.

Search Hazardous Substances

To begin a search, select [Search Hazardous Substances](#) from the *navigation bar*. The main screen will look like this:



This screen contains fields for entering the CAS number or the name of the chemical substance.



Name:

The HSIS uses a wildcard search by default.

For example:

If you enter the text 'chlor' into the **Name:** field you will find over 700 entries. This is because HSIS has found every substance with the text 'chlor' in the name. Changing the text to 'chloride' reduces the number of entries found to less than 180, since there are fewer substances in the database with 'chloride' in the name.

You may also limit the wildcard search by using the * (asterisk).

For example:

*chloride will find any entry ending in 'chloride'.
chlor* will find any entry beginning with 'chlor'.

CAS No:

The CAS number may be entered with or without hyphens. e.g. 107-05-1 or 107051.

If you enter the CAS number incorrectly you will receive a **Invalid Cas No** error.

To search for a hazardous substance simply enter the CAS number or Name of the chemical substance into one of the blank fields and select the **Search** button.

The screenshot shows a search interface with two input fields at the top, one labeled 'Health (H)' and the other 'Physicochem'. Below these fields, it says 'Results displayed per page' with radio buttons for '20' (selected) and '50'. At the bottom, there are three buttons: 'Search' (circled in red), 'Reset', and 'Print/Save'.

**TIP**

- The text entered into the **Name:** field may be the chemical name or a synonym. (e.g. trichloromethane or chloroform)
- Ticking the **Exact Match:** box next to the **Name:** field will only search for a database entry matching the exact entry in the name field.

HSIS will display the search results on the screen.

Record 1 to 5 of 5 records.

< Prev 1 Go

Cas No	Substance Name	UN No	Classification	Labelling	CutOffs	Source	View History
	Acrylic acid, monoalkyl or monoaryl or monoalkylaryl esters of, with the exception of those specified elsewhere in HSIS		Xi; R36/37/38 N; R51-53	Xi; N R: 36/37/38- 51/53 S: (2-)26-28- 61; Note: A	Conc>=10%: Xi; R36/37/38	Eu	View History
	Methacrylic acid, monoalkyl or monoaryl or monoalkylaryl esters of, with the exception of those elsewhere specified		Xi; R36/37/38	Xi R: 36/37/38 S: (2) - 26 - 28; Note: A	Conc>=10%: Xi; R36/37/38	Eu	View History
79-10-7	Acrylic acid [Prop-2-enoic acid]	2218	R10 Xn; R20/21/22 C; R35 N; R50	C; N R: 10- 20/21/22- 35-50 S: (1/2-)26- 36/37/39- 50	Conc>=25%: C; R35; R20/21/22 >=10%Conc<25%: C; R35 >=5%Conc<10%: C; R34	Eu; A	View History

The number of results will depend on the search parameters.

**TIP**

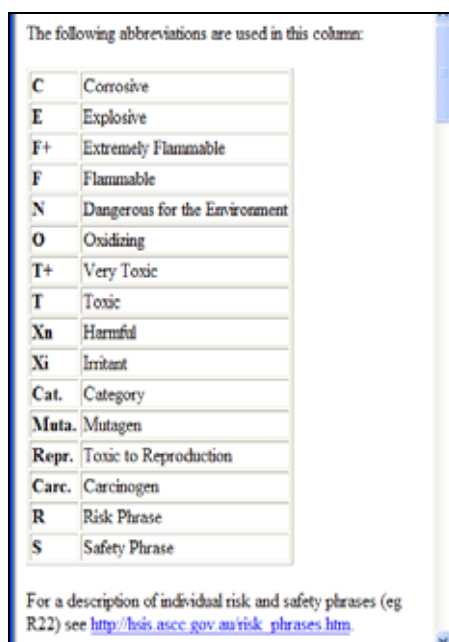
You can view every entry in HSIS by selecting the **Search** button, without entering a name or CAS number. You may also obtain the complete list by selecting **HSIS – Consolidated Lists** from the navigation bar.

Column Headings

The column headings are links which contain a brief explanation of the information contained in each column. Simply select a column heading to open a information window.

Cas No	Substance Name	UN No	Classification	Labelling	CutOffs	Source	View History
------------------------	--------------------------------	-----------------------	--------------------------------	---------------------------	-------------------------	------------------------	------------------------------

For example: Select [Labelling](#) to open a window containing information on abbreviations.



View History

Each entry in the HSIS has a history. The history may be accessed by selecting the [View History](#) link at the end of the entry:

Cas No	Substance Name	UN No	Classification	Labelling	CutOffs	Source	View History
78-30-8	Tricresyl phosphate (o-o-o, o-o-m, o-o-p, o-m-m, o-m-p, o-p-p) [Triorthocresyl phosphate; Tritolyl phosphate](Note: For Tricresyl phosphate to have UN No. 2574 there must be present greater than 3% of the ortho-isomer)	2574	T; R39/23/24/25 N; R51-53	T ; N ; R: 39/23/24/25 - 51/53 ; S: (1/2) - 20/21 - 28 - 45 - 61 ; Note: C	Conc>=1%: T; R39/23/24/25 >=0.2% Conc<1%: Xn; R68/20/21/22	Eu; A	View History

By selecting this link you can view any changes which have been made to the entry since the HSIS was commenced on 18 January 2005. For example selecting [View History](#) may open a window similar to this:



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Hazardous Substance History

Date	Description
02/07/2008	Substance Added
16/07/2008	Note modified from: (Note: For Tricresyl phosphate to have UN No. 2574 there must be present greater than 3% of the ortho-isomer) to: (For Tricresyl phosphate to have UN No. 2574 there must be present greater than 3% of the ortho-isomer)

Sorting and Filtering Results

The search screen includes options to change the way your results are viewed. These options are located after the **Name:** field.

Search Hazardous Substances

[+ Advanced Search](#)

CAS No:

Name:
Exact Match: ☐

Sort By: CAS No

Show Exposure Standard Details: ☐

☒ Health (H)
☒ Physicochemical (D)
☒ Ecotoxicological (E)

Results displayed per page
☒ 20
☐ 50
☐ 100
☐ All results

Sort By:

The **Sort By:** function allows you to sort the results by either the CAS number (lowest to highest) or by name (alphabetically).

For example:

If you perform a search using the text 'alcohol' 26 entries will be located.

If you sort by name, *ally alcohol* will be at the top of the results (illustrated in the following screenshot):

Cas No	Substance Name	UN No	Classification	Labelling	CutOffs	Source	View History
107-18-6	Allyl alcohol	1098	R10 T; R23/24/25 Xi; R36/37/38 N; R50	T ; N ; R: 10 - 23/24/25 - 36/37/38 - 50 , S: (1/2) - 36/37/39 - 38 - 45 - 61	Conc>=25%: T; R23/24/25; R36/37/38 >=20% Conc<25%: Xn; R20/21/22; R36/37/38 >=3% Conc<20%: Xn; R20/21/22	Eu; A	View History
100-51-6	Benzyl alcohol		Xn; R20/22	Xn ; R: 20/22 , S: (2) - 26	Conc>=25%: Xn; R20/22	Eu	View History
71-36-3	Butan-1-ol [n-Butanol; n-Butyl alcohol]	1120	R10 Xn; R22 Xi; R37/38-41 R67	Xn R: 10-22-37/38-41-67 S: (2-)7/9-13-26-37/39-46	Conc>=25%: Xn; R22; R37/38; R41 >=20% Conc<25%: Xi; R37/38; R41 >=10% Conc<20%: Xi; R41 >=5% Conc<10%: Xi; R36	Eu;A	View History
78-92-2	Butan-2-ol [sec-Butyl alcohol] (Note: see also CAS No. 4221-99-2, 14898-79-4 &	1120	R10 Xi; R36/37 R67	Xi R: 10-36/37-67 S: (2-)7/9-13-24/25-26-46	Conc>=20%: Xi; R36/37	Eu;A	View History

Compare this to sorting by CAS number, which will put *mixture of: bis(1S,2S,4S)-(1-benzyl-4-tert-butoxycarboxamido-2-hydroxy-5-phenyl) and pentylammonium succinate and isopropyl alcohol* at the top of the results (illustrated in the following screenshot):

Cas No	Substance Name	UN No	Classification	Labelling	CutOffs	Source	View History
	Mixture of: bis(1S,2S,4S)-(1-benzyl-4-tert-butoxycarboxamido-2-hydroxy-5-phenyl) and pentylammonium succinate and isopropyl alcohol		Xn; R48/22 Xi; R41 N; R50-53	Xn; N R: 41-48/22-50/53 S: (2-)22-26-36/39-60-61	Conc>=10%: Xn; R48/22; R41 >=5% Conc<10%:Xi; R36	Eu	View History
	Reaction mixture of saturated, monounsaturated and multiple unsaturated long-chained partly estrified alcohols of vegetable origin (Brassica napus L., Brassica rapa L., Helianthus annuus L., Glycine hispida, Gossypium hirsutum L., Cocos nucifera L., Elaeis guineensis) with O,O-diisobutylthiophosphate and 2-ethylhexylamine and hydrogen peroxide		R43	Xi R: 43 S: (2-)24-37	Conc>=1%: Xi; R43	Eu	View History
	Zinc hexacyanocobaltate (III), tertiary butyl alcohol/polypropylene glycol complex		Xi; R41 N; R51-53	Xi; N R: 41-51/53 S: (2-)22-26-39-61	Conc>=10%: Xi; R41 >=5% Conc<10%: Xi; R36	Eu	View History
64-17-5	Ethyl alcohol [Ethanol]	1170	F; R11	F; R11, S: (2) - 7 - 16		Eu; A	View History

**TIP**

You can re-sort the results at any time. Just select **Sort By: CAS** or Name, and select the **Search** button to re-sort.

Show Exposure Standard Details:

Some hazardous substances also have exposure standards. The default setting is to display exposure standard levels alongside the hazardous substance data. You can exclude the display of exposure standard levels by deselecting the box.

Health (H) Physicochemical (D) Ecotoxicological (E)

The search screen gives you the option to specify the type of hazard data to be displayed in your search results. You can exclude entries that do not have health effects by deselecting the D and E boxes. The default setting is all three boxes selected.

Results displayed per page

Your HSIS search may produce a lot of results. The **Results displayed per page** option gives you the ability to limit the number of results displayed on the screen. This is useful if you have a slow internet connection.

Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

By default, 20 results are displayed per page. For example if you find 50 results, the screen will look something like this:

Record 1 to 20 of 50 records.< Prev 1 Next >

Cas No	Substance Name	UN No	Classification	Labelling	CutOffs	Source	View History
1	Bis[[2,2',2''-nitrilotris[ethanolato]]-1-N,O]bis[2-(2-methoxyethoxy)ethoxy]-titanium		Xi; R41 N; R51-53	Xi ; N ; R: 41 - 51/53 , S: (2) - 26 - 39 - 61	Conc>=10%: Xi; R41 >=5% Conc<10%: Xi; R36	Eu	View History
2	Diethanolamine salt of 4-CPA		Xn; R22	Xn ; R: 22 , S: (2)	Conc>=25%: Xn; R22	Eu	View History
3	Fatty acids, tall oil, reaction products with imminodiethanol and boric acid		Xi; R38 N; R51-53	Xi ; N ; R: 38 - 51/53 , S: (2) - 28 - 37 - 61	Conc>=20%: Xi; R38	Eu	View History

Additional navigation controls become active when there are multiple pages.

< Prev 1 Next >

1

Cas No 2 3 Subs

The navigation controls allow you to jump to a specific page number or go to the next page by selecting the next > control.

**TIP**

You can change the number of results per page at any time and refresh the results by selecting the **Search** button

Control buttons

At the bottom of the search screen there are three buttons: **Search**, **Reset** and **Print/Save**.

Search Hazardous Substances[+ Advanced Search](#)

CAS No:

Name: Exact Match: ☐

Sort By: ▾

Show Exposure Standard Details: ☐

☒ Health (H) ☒ Physicochemical (D) ☒ Ecotoxicological (E)

Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

Search

Select the **Search** button to initiate the database search.

Reset

The **Reset** button will clear the search fields and reset the search screen to the default settings.

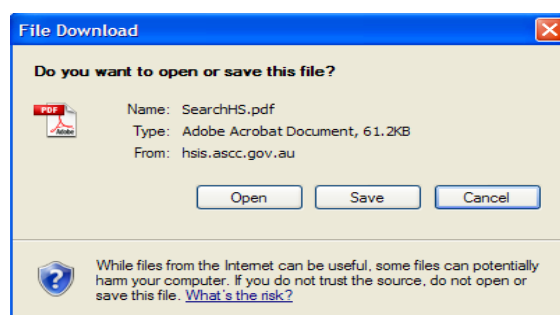
Print/Save

Typically you can print your results by using your browser, however the printout will also contain the search page image and HSIS menus.

The **Print/Save** button allows you to generate a list of your search results, without the search screen. HSIS uses the pdf format for this list. You will need Adobe Acrobat reader or similar to view the pdf output.

To print or save the results simply:

- 1) Select the **Print/Save** button which will open the following window:



- 2) At this point you can save the file to your computer, or view it by selecting the **Open** button. The pdf file will look something like this:

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Hazardous Substances Information System

Hazard Classification Search

No exposure standard should be applied without reference to the Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC 3006(1995)], and to the related documentation

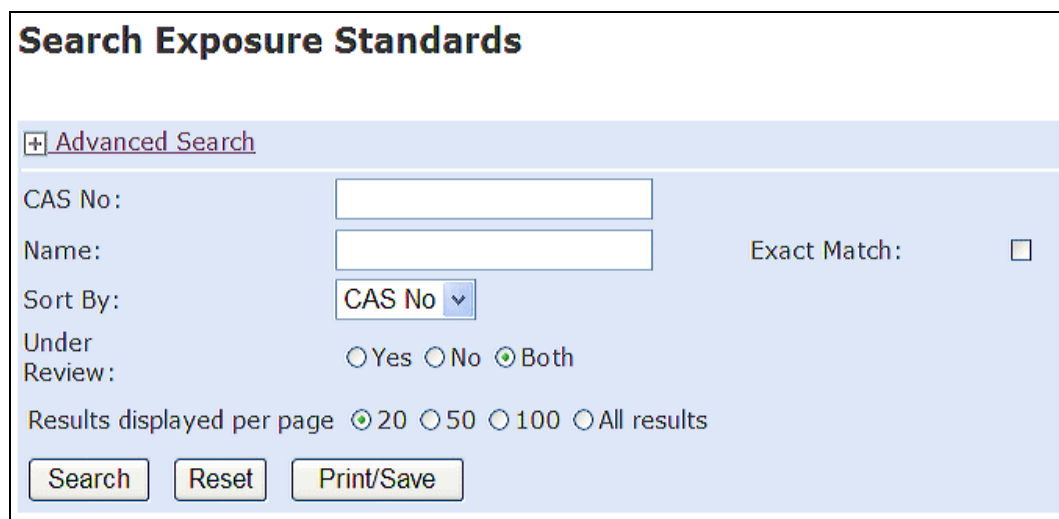
Cas No	Substance Name	Classification	Labelling	Cut Offs	Source	Standard Name	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Carc. Cat	Notes
	Mineral wool, with the exception of those specified elsewhere in HSIS [Synthetic mineral fibres (SMF)](Note: Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content greater than 10% by weight)	Carc. Cat. 3; R40 Xi; R38	Xn R: 38-40 S: (2)(38/37) Notes: A; Q; R	Conc>20%; Xn; R40; R38 >=1%Conc<20%; Xn; R40	Eu; A							
	Refractory ceramic fibres; Special Purpose Fibres, with the exception of those specified elsewhere in HSIS [Synthetic mineral fibres (SMF)](Note: Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na ₂ O + K ₂ O + CaO + MgO + BaO) content less or equal to 10% by weight)	Carc. Cat. 2; R40 Xi; R38	T; R: 49 - 38 S: 53 - 45 Notes: A; R	Conc>20%; T; R45; R38 >=0.1% Conc<20%; T; R49	Eu; A							

- 3) You print or save the pdf using the menu options in the pdf reader.

Other advanced features for searching hazardous substances are covered in the **Advanced Search** section of this [manual](#).

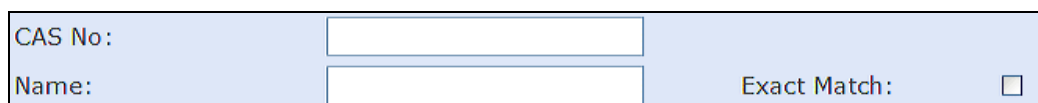
Search Exposure Standards

To begin searching, select Search Exposure Standards from the *navigation bar*. The main screen will look like this:



The screenshot shows a web form titled "Search Exposure Standards". At the top left is a link "+ Advanced Search". Below this are several input fields: "CAS No:" with a text box, "Name:" with a text box, and "Sort By:" with a dropdown menu currently set to "CAS No". To the right of the "Name:" field is an "Exact Match:" checkbox. Below these fields are radio buttons for "Under Review:" with options "Yes", "No", and "Both" (selected). At the bottom left, it says "Results displayed per page" with radio buttons for "20" (selected), "50", "100", and "All results". At the bottom are three buttons: "Search", "Reset", and "Print/Save".

This screen contains fields for entering the CAS number or name of the chemical substance.



This is a close-up of the search input section of the form. It shows the "CAS No:" label next to a text input box, and the "Name:" label next to another text input box. To the right of the "Name:" field is the "Exact Match:" label followed by an unchecked checkbox.

Name:

The HSIS uses a wildcard search by default.

For example:

If you enter the text 'chlor' into the **Name:** field you will find over 100 entries. This is because HSIS has found every substance with the text 'chlor' in the name. Changing the text to 'chloride' reduces the number of entries found to less than 30, since there are fewer substances in the database with 'chloride' in the name.

You may also limit the wildcard search by using the * (asterisk).

For example:

*chloride will find any entry ending in 'chloride'.
chlor* will find any entry beginning with 'chlor'.

CAS No:

The CAS number may be entered with or without hyphens. e.g. 107-05-1 or 107051.

If you enter the CAS number incorrectly you will receive a **Invalid Cas No** error.

To search for an exposure standard simply enter the CAS number or Name of the chemical substance into one of the blank fields and select the **Search** button.

**TIP**

- The text entered into the **Name:** field may be the chemical name or a synonym (e.g. trichloromethane or chloroform)
- Ticking the **Exact Match:** box next to the **Name:** field will only search for a database entry matching the exact entry in the **Name:** field.
- Some exposure standards (e.g. asbestos, silica and synthetic fibres) apply across a group of individual substances. To find exposure standards that cover a group of related substances, you need to search using the **Name:** field rather than the **CAS No:** field. For example, a search on 'asbestos' in the **Name:** field will return all of the records assigned to the asbestos group (i.e. amosite, chrysotile, crocidolite, other forms), whereas a **CAS No:** search will only return an exact match.

HSIS will display the search results on the screen

Standard Name	Synonyms	Cas No	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Carcinogen Category	Notices	Ref	Notes			View History
Ceramic fibres			-	0.5 f/ml	-	-	-	-	A	(see Chapter 14, also see Synthetic mineral fibres)	View Hazardous Substance	View Documentation	View History
Chromium (II) compounds (as Cr)			-	0.5	-	-	-	-	H		View Hazardous Substance		View History
Chromium (III) compounds (as Cr)			-	0.5	-	-	-	-	H		View Hazardous Substance		View History
Chromium (VI) compounds (as Cr), certain water insoluble (h)			-	0.05	-	-	1	Sen	H		View Hazardous Substance		View History

The number of results will depend on the search parameters.

**TIP**

- You can view every exposure standard in HSIS by selecting the **Search** button, without entering a name or CAS number.

Other useful features of the results screen are the column headings, hazardous substance information, documentation and history.

Column Headings

The column headings are links which contain a brief explanation of the information contained in each column. Simply select a column heading to open a information window.

Standard Name	Synonyms	Cas No	TWA (ppm)	TWA (mg/m³)	STEL (ppm)	STEL (mg/m³)	Carcinogen Category	Notices	Ref	Notes			View History
---------------	----------	--------	---------------------------	--	----------------------------	---	---------------------	---------	-----	-------	--	--	--------------

For example, Select [TWA \(ppm\)](#), to open a window containing information on abbreviations.

The following abbreviations are used in this column:	
Abbreviation	Meaning
TWA	Exposure Standard - time weighted average (see Chapters 5 and 6)
ppm	Parts of vapour or gas per million parts of contaminated air by volume (see Section 19.7)
mg/m³	Milligrams of substance per cubic metre of air at 25°C and one atmosphere pressure. When entry is in this column only, the value is exact: when listed with a ppm value, it is approximate. (see Section 19.7-8)
f/mL	Fibres per millilitre of air as determined by the membrane filter method
P	Prohibition recommended (see Chapter 3)

View Hazardous Substance

Each exposure standard will have a corresponding hazardous substance entry in HSIS. To view the hazardous substance information simply select the [View Hazardous Substance](#) link.

Mercury, alkyl compounds (as Hg)			-	0.01	-	0.03	-	Sk	H	View Hazardous Substance	View Documentation	View History
----------------------------------	--	--	---	------	---	------	---	----	---	--	------------------------------------	------------------------------

A window containing the hazard classification will open (illustrated below):


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View Hazardous Substances

CAS No	Substance Name	UN No	Classification	Labelling	CutOffs	Source	H Type
2024 2025	Mercury alkyl compounds (as Hg) with the exception of those elsewhere specified	R26/27/28 R33 N; R50-53	T+; R26/27/28 - 33 - 50/53, S; (1/2) - 13 - 28 - 36 - 45 - 60 - 61; Note: A	T+; N; R; 26/27/28 - 33 - 50/53, S; (1/2) - 13 - 28 - 36 - 45 - 60 - 61; Note: A	Conc>=1%: T+; R26/27/28; R33 >=0.5% Conc<1%: T; R23/24/25; R33 >=0.05% Conc<0.5%: Xn; R20/21/22; R33	Eu; A	H
2024 2025	Mercury, organic compounds with the exception of those specified elsewhere in HSIS	R26/27/28 R33 N; R50-53	T+; R26/27/28 - 33 - 50/53, S; (1/2) - 13 - 28 - 36 - 45 - 60 - 61; Note: A	T+; N; R; 26/27/28-33-50/53 S; (1/2)-13-28-36-45-60-61; Note: A	Conc>=1%: T+; R26/27/28; R33 >=0.5% Conc<1%: T; R23/24/25; R33 >=0.05% Conc<0.5%: Xn; R20/21/22; R33	Eu; A	H

Close Window

View Documentation

Each exposure standard has supporting documentation. This information generally provides a background to the origin of the exposure standard and further guidance.

To view the documentation, select the [View Documentation](#) link at the end of the exposure standard entry:

Mercury, alkyl compounds (as Hg)		-	0.01	-	0.03	-	Sk	H		View Hazardous Substance	View Documentation	View History
----------------------------------	--	---	------	---	------	---	----	---	--	--	------------------------------------	------------------------------

A window containing the documentation for that exposure standard will open, as shown below.

Mercury, aryl and inorganic compounds (as Hg) SUBSTANCE NAME:Mercury, aryl and inorganic compounds (as Hg) CAS Number: 7439-97-6 Exposure Standard: TWA: - ppm 0.1 mg/m³ STEL: - ppm - mg/m³ Review notice: Reason for review - effects on central nervous system. Skin absorption notice: Absorption through the skin may be a significant source of exposure. See Chapter 11 of the Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment, published by Worksafe Australia. Documentation notice: American Conference of Governmental Industrial Hygienists (ACGIH), Documentation of Threshold Limit Values and Biological Exposure Indices, 6th Edition, ACGIH, Cincinnati, Ohio, 1991 No standard should be applied without reference to the Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment[NOHSC:3008(1995)], and to the related documentation. Footnotes: Review notice: A review notice indicates that the substance requires further review by the Exposure Standards Expert Working Group. In most cases the ACGIH documentation should be consulted for these substances. Documentation notice Documentation for the majority of substances can be found in the American Conference of Governmental Industrial Hygienists' (ACGIH) documentation of the threshold limit values and biological exposure indices - users should refer to the ACGIH documentation cited.
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The extent of the documentation varies between exposure standards.

View History

Each exposure standard has a [View History](#) link at the end of the entry.

Sulfotep	TEDP O,O,O,O-Tetraethyl dithiopyrophosphate	3689-24-5	0.007	0.1	-	-	-	Sk	-		View Hazardous Substance	View Documentation	View History
----------	--	-----------	-------	-----	---	---	---	----	---	--	--	------------------------------------	------------------------------

By selecting this link you can view any changes which have been made to the exposure standard since HSIS was commissioned on 18 January 2005. For example selecting view history for sulfotep will open the following window:

Exposure Standard History	
Date	Description
31/08/2005	TWA(ppm) modified from [-] to [0.007] TWA(mgm3) modified from [0.2] to [0.1] Ref modified from [H;R] to [-] Documentation modified Under Review modified from Yes to No
31/08/2005	Documentation modified

Sorting and Filtering

The search screen includes options to change the way your results are viewed. These options are located after the **Name:** field.

Search Exposure Standards

[+ Advanced Search](#)

CAS No:

Name: Exact Match: ☐

Sort By:

Under Review: ☐ Yes ☐ No ☒ Both

Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

Sort By:

The **Sort By:** function allows you to sort the results by either the CAS number (lowest to highest) or by name (alphabetically).

For example:

If you perform a search using the name *alcohol* you will find 15 entries.

If you sort by name, *allyl alcohol* will be at the top of the results, (illustrated in the following screenshot):

Standard Name	Synonyms	Cas No	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Carcinogen Category	Notices	Ref	Notes			View History
Allyl alcohol		107-18-6	2	4.8	4	9.5	-	Sk	H		View Hazardous Substance	View Documentation	View History
n-Butyl alcohol	n-Butanol	71-36-3	50	152 Peak limitation	-	-	-	Sk	H		View Hazardous Substance	View Documentation	View History
sec-Butyl alcohol	sec-Butanol Butan-2-ol	78-92-2	100	303	-	-	-	-	H		View Hazardous Substance	View Documentation	View History
tert-Butyl alcohol	tert-Butanol 2-Methylpropan-2-ol	75-65-0	100	303	150	455	-	-	H		View Hazardous Substance	View Documentation	View History

Compare this to sorting by CAS number, which will put *ethyl alcohol* at the top of the results, (illustrated in the following screenshot):

Standard Name	Synonyms	Cas No	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Carcinogen Category	Notices	Ref	Notes			View History
Ethyl alcohol	Ethanol	64-17-5	1000	1880	-	-	-	-	H		View Hazardous Substance	View Documentation	View History
Methyl alcohol	Methanol	67-56-1	200	262	250	328	-	Sk	H		View Hazardous Substance	View Documentation	View History
Isopropyl alcohol	Propan-2-ol	67-63-0	400	983	500	1230	-	-	H		View Hazardous Substance	View Documentation	View History
Propyl alcohol	Propan-1-ol	71-23-8	200	492	250	614	-	Sk	H		View Hazardous Substance	View Documentation	View History



TIP

You can re-sort the results at any time. Just select **Sort By: CAS** or Name, and select the **Search** button to re-sort.

Under Review:

Selecting **Yes** in the **Under Review:** option will only list exposure standards which are currently under review. Selecting **No** in the **Under Review:** option will list only exposure standards that are not under review. Selecting **Both** in the **Under Review:** option will list exposures standards that are under review and those that are not under review. By default **Both** is selected.

Results displayed per page

A HSIS search may produce a lot of results. The **Results displayed per page** option provides you with the ability to limit the number of results displayed on the screen. This is useful if you have a slow internet connection.

Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

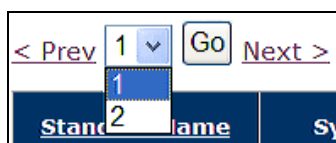
By default, 20 results are displayed per page. For example if you find 28 results the screen will look something like this:

Record 1 to 20 of 28 records.

< Prev 1 Next >

Stand	Name	Synonyms	Cas No	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Carcinogen Category	Notices	Ref	Notes			View History
N-Nitrosodimethylamine (d)	N,N-Dimethylnitrosamine	62-75-9	-	-	-	-	-	2	Sk	H		View Hazardous Substance	View Documentation	View History
Methylamine (h)		74-89-5	10	13	-	-	-	-	-	H		View Hazardous Substance	View Documentation	View History
Ethylamine		75-04-7	2	3.8	6	11	-	-	-	-		View Hazardous Substance	View Documentation	View History

Additional navigation controls become active when there are multiple pages.



The navigation controls allow you to jump to a specific page number or go to the next page by selecting the next> control.



TIP

You can change the number of results per page at any time and refresh the results by selecting the **Search** button

Control buttons

At the bottom of the search screen there are three buttons: **Search**, **Reset** and **Print/Save**.

Search Exposure Standards

[+ Advanced Search](#)

CAS No:

Name: Exact Match: ☐

Sort By:

Under Review: ☐ Yes ☐ No ☒ Both

Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

Search

Select the **Search** button to initiate the database search.

Reset

Selecting the **Reset** button will clear the search fields and reset the search screen to the default settings.

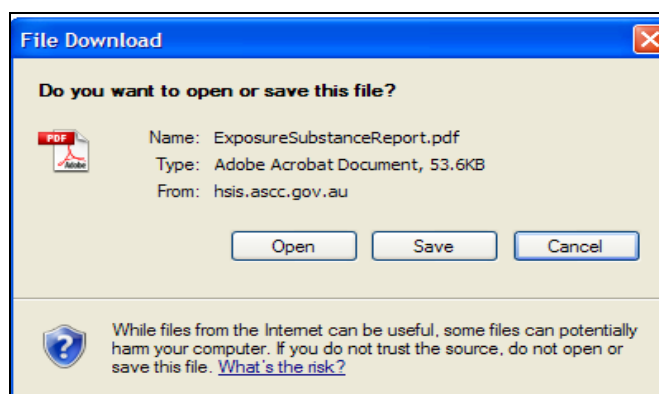
Print/Save

Typically you can print your results by using your browser, however the printout will also contain the search screen and HSIS menus.

The **Print/Save** button allows you to generate a list of your search results, without the search fields, etc. HSIS uses the pdf format for this list. You will need Adobe Acrobat Reader or similar to view the pdf output.

To print or save the results simply:

- 1) Select the **Print/Save** button which will open the following window:



- 2) At this point you can save the file to your computer, or view it by selecting the **Open** button. The pdf file will look something like this:

safe work australia

Hazardous Substances Information System
Exposure Standards Search

No exposure standard should be applied without reference to the Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)], and to the related documentation

Standard Name	Synonyms	Cas No	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Carcinogen Category	Notices	Ref	Notes
Ethyl alcohol	Ethanol	64-17-6	1000	1680	-	-	-	-	H	
Methyl alcohol	Methanol	67-56-1	200	262	250	326	-	Sk	H	
Isopropyl alcohol	Propan-2-ol	67-63-0	400	903	500	1200	-	-	H	
Propyl alcohol	Propan-1-ol	71-23-8	200	492	250	614	-	Sk	H	
n-Butyl alcohol	n-Butanol	71-36-3	80	162	-	-	-	Sk	H	
				Peak limitation						
tert-Butyl alcohol	tert-Butanol	75-65-0	100	303	150	455	-	-	H	
	2-Methylpropan-2-ol									
Isobutyl alcohol	2-Methylpropan-1-ol	78-83-1	50	152	-	-	-	-	H	
	iso-Butanol									
sec-Butyl alcohol	sec-Butanol	78-90-2	100	303	-	-	-	-	H	
	Butan-2-ol									
Furfuryl alcohol		98-00-0	10	40	115	60	-	Sk	H	
Allyl alcohol		107-18-6	2	4.8	4	9.6	-	Sk	H	
Propargyl alcohol	Prop-2-yn-1-ol	107-10-7	1	2.3	-	-	-	Sk	H	
Methyl isobutyl carbinol	Methyl amyl alcohol	100-11-2	25	104	40	167	-	Sk	H	
Diacetone alcohol	4-Hydroxy-4-methyl-2-pentanone	123-42-2	50	238	-	-	-	-	H	
Isomyl alcohol	3-Methylbutan-1-ol	123-51-3	100	361	125	452	-	-	H	
Isosetyl alcohol		26862-21-6	80	268	-	-	-	Sk	H	

- 3) You print or save the pdf using the menu options in the pdf reader.

Other advanced features for searching hazardous substances are covered in the **Advanced Search** of this manual.

ADVANCED SEARCH

The **Advanced Screen** in HSIS includes all the functionality of the **Basic Search** screen plus several additional search fields. These include revision date, classification and data sources.

Search Hazardous Substances.

To begin a search, select Search Hazardous Substances from the *navigation bar*, which will open the basic search screen (illustrated below).

The screenshot shows the 'Search Hazardous Substances' interface. At the top, there is a tab labeled '+ Advanced Search' which is circled in red. Below the tab, the form includes fields for 'CAS No:' and 'Name:', a dropdown for 'Sort By' set to 'CAS No', and a checkbox for 'Exact Match:'. There are also checkboxes for 'Show Exposure Standard Details:' and three checked checkboxes for 'Health (H)', 'Physicochemical (D)', and 'Ecotoxicological (E)'. At the bottom, there are radio buttons for 'Results displayed per page' with options 20, 50, 100, and 'All results'. Three buttons are at the bottom: 'Search', 'Reset', and 'Print/Save'.

Select the Advanced Search link, to open the **Advanced Search** screen (illustrated below).

The screenshot shows the 'Search Hazardous Substances' interface with the 'Basic Search' tab selected. The form is divided into several sections. The top section has 'CAS No:' and 'Name:' fields, and an 'Exact Match:' checkbox. The middle section has 'UN No:', 'Classification:', 'Labelling:', 'Cut Offs:', and 'Source:' fields. The bottom section has 'Last revised between (select date range):' with 'From Date:' and 'To Date:' fields, a 'Sort By:' dropdown set to 'CAS No', and a 'Show Exposure Standard Details:' checkbox. There are also checkboxes for 'Health (H)', 'Physicochemical (D)', and 'Ecotoxicological (E)'. At the bottom, there are radio buttons for 'Results displayed per page' with options 20, 50, 100, and 'All results'. Three buttons are at the bottom: 'Search', 'Reset', and 'Print/Save'. A blue box highlights the 'Basic Search' tab and the bottom section of the form.

The features from the **Basic Search** screen are also available on the **Advanced Search** screen (highlighted in the blue boxes above). Refer to the **Basic Search**

section of the manual for the use of the basic search features.

The additional features of the **Advanced Search** screen are:

UN No:

Allows you to search for a substance using the UN number (see the ADG Code for a full list of UN numbers).

Classification, Labelling, Cut offs:

Allows you to search for specific classifications, risk phrases, concentration cut-offs etc. The format for this information may be referenced from the *Approved Criteria for Classifying Hazardous Substances* [NOHSC:1008(2004)].

NOTE: Incorrect use of these fields can exclude data from the search. Care should be taken when using these search fields.

Source:

Allows you to search for the source of the hazardous substance classification.

Last Revised between:

The date search allows you view records which have been amended within a date range. This allows you to review any recent changes such as amendments to the hazard classifications.

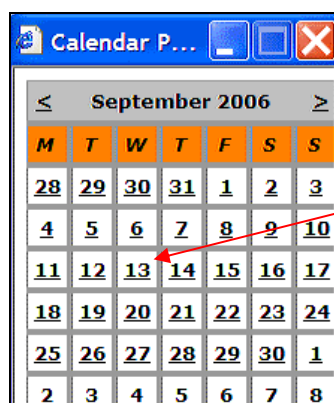
To perform a date search, enter the date(s) in the following fields:

From Date:  To Date: 

- A date can be entered in the DD/MM/YY format using the keyboard; or
- Select a date by using the calendar boxes as illustrated below:

Selecting the calendar button will open the calendar window:

From Date:  To Date: 



- You can change the month by selecting either $\leq$ or $\geq$
- Select a date to add it to the search field:

Search Exposure Standards

To begin searching, select **Search Exposure Standards** from the *navigation bar* which will open the **Basic Search** screen (illustrated below).

Search Exposure Standards

[+ Advanced Search](#)

CAS No:

Name: Exact Match: ☐

Sort By:

Under Review: ☐ Yes ☐ No ☒ Both

Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

Select the Advanced Search link, to open the **Advanced Search** screen (illustrated below).

Search Exposure Standards

☐ Basic Search

CAS No:

Name: Exact Match: ☐

TWA(ppm): (mg/m³):

STEL(ppm): (mg/m³):

Carcinogen Category:

Notices:

Ref:

Notes:

Last revised between (select date range): From Date: To Date:

Sort By:

Under Review: ☐ Yes ☐ No ☒ Both

Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

The features from the **Basic Search** are also available (highlighted in the blue boxes above) on the **Advanced Search** screen. Refer to the **Basic Search** section of the manual for the use of the basic search features.

The additional features of the **Advanced Search** screen are:

TWA (ppm or mg/m³), STEL (ppm or mg/m³):

Allows you to search for exposure standards with a specific TWA or STEL level.

Peak Limitation exposure values are recorded in the TWA mg/m³ column in the relevant exposure standards records. The notation 'Peak Limitation' is also recorded in the same field. To search for exposure standards with a *Peak Limitation* value, enter the word 'peak' in the TWA mg/m³ field and perform the search in the normal way.

When searching for a STEL and/or TWA value higher than 999, the search value must be entered without the use of a comma (e.g. 1000 rather than 1,000).

Carcinogen Category:

Allows you to search for exposure standards where the substance has a specific carcinogen classification.

Notices, References and Notes:

Allows you to search for exposure standards with specific information stored in these fields.

Last Revised between:

The date search allows you view exposure standards which were last amended within a specified date range. This allows you to review any recent changes to the exposure standards.

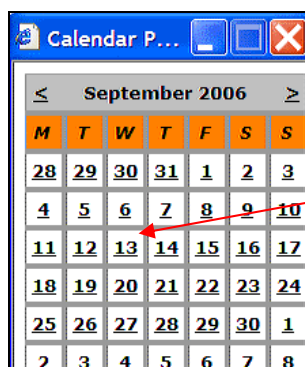
To perform a date search, enter the date(s) in the following fields:

From Date:  To Date: 

- A Date can be entered in the DD/MM/YY format; or
- Select a date by using the calendar boxes as illustrated below:

Selecting the calendar button will open the calendar window:

From Date:  To Date: 



- You can change the month by selecting either ≤ or ≥
- Select the date to add it to the search field.

Quick Reference

Basic Search Screens

Search Hazardous Substances

[+ Advanced Search](#) (9)

(1) CAS No:

(2) Name: Exact Match: ☐ (8)

Sort By: (5)

Show Exposure Standard Details: ☐ (6)

(3) ☒ Health (H) ☒ Physicochemical (D) ☒ Ecotoxicological (E)

(4) Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

(7)

Search Exposure Standards

[+ Advanced Search](#) (9)

(1) CAS No:

(2) Name: Exact Match: ☐ (8)

Sort By: (5)

Under Review: ☐ Yes ☐ No ☒ Both (10)

(4) Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

(7)

- (1) CAS number search. The format may be either with or without dashes. (e.g. 71-43-2 or 71432). This field will search for any record containing the requested CAS number.
- (2) Name search. The text entered is a default wildcard. This field will search for names and synonyms in the records.
- (3) The search can be restricted to show records with any or all of Health, Physicochemical and Ecotoxicological hazards.
- (4) Sets the number of results displayed per page.
- (5) Allows sorting of results by CAS number or Name
- (6) Displays exposure standards with the hazardous substances results.
- (7) **Search:** performs search, **Reset:** reset the form, **Print/Save:** generates a pdf of the search results.
- (8) Limits the Name search to exact match, rather than wildcard.
- (9) Changes search screen to advanced or basic screen
- (10) Restricts the search to show exposure standards that are under review or not under review or both.

Advanced Search Screens

Search Hazardous Substances

☐ Basic Search (9)

(1) CAS No:

(2) Name: Exact Match: ☐ (8)

(11) UN No:

(12) { Classification:

Labelling:

Cut Offs:

Source:

(13) Last revised between (select date range): From Date: To Date:

Sort By: (5)

Show Exposure Standard Details: ☐ (6)

(3) ☒ Health (H) ☒ Physicochemical (D) ☒ Ecotoxicological (E)

(4) Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

(7)

Search Exposure Standards

☐ Basic Search (9)

(1) CAS No:

(2) Name: Exact Match: ☐ (8)

(14) { TWA(ppm): (mg/m³):

STEL(ppm): (mg/m³):

(15) Carcinogen Category:

(16) { Notices:

Ref:

Notes:

(13) Last revised between (select date range): From Date: To Date:

Sort By: (5)

Under Review: ☐ Yes ☐ No ☒ Both (10)

(4) Results displayed per page ☒ 20 ☐ 50 ☐ 100 ☐ All results

(7)

- (11) UN number search.
- (12) Text search of classification, labelling, cut-offs and source information.
- (13) Search for records which were last revised between a specified date range.
- (14) Text search of time weighted averages (TWA) and short Term exposure limit (STEL).
- (15) Text search of Carcinogen Category
- (16) Text search of Notices, References and Notes