



chem-supply

## Safety Data Sheet

infosafe  
CS: 1.7.2

Page: 1 of 5

Infosafe No™	1CH0H	Issue Date : November 2016	RE-ISSUED by CHEMSUPP
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Product Name : **2-PHENOXYETHANOL**

Classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	2-PHENOXYETHANOL		
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
<b>Recommended use of the chemical and restrictions on use</b>	Solvent for cellulose acetate, dyes; inks, resins, stamp pad, ball point, and specialty inks; textile dye carrier; solvent for cleaners; organic synthesis of plasticizers, germicides, pharmaceuticals, chemical intermediate for carboxylic acid esters, e.g., acrylate, maleate, 2-phenoxyethanol phosphate and salts, polymers (e.g., with formaldehyde and melamine); fixative for perfumes, cosmetics and soaps; as bactericide in conjunction with quaternary ammonium compound; as insect repellent; medication; long-term preservation of human anatomical specimens for dissection and demonstration purposes.		
<b>Other Names</b>	<u>Name</u>	<u>Product Code</u>	
	Ethylene glycol monophenyl ether		
	Phenyl cellosolve		
	2-PHENOXYETHANOL TG		PT195
	2 PHENOXYETHANOL LR		PL195
<b>Other Information</b>	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.		

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

**2. Hazard Identification**

<b>GHS classification of the substance/mixture</b>	Eye Damage/Irritation: Category 2A Acute Toxicity - Oral: Category 4
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H319 Causes serious eye irritation.
<b>Pictogram (s)</b>	Exclamation mark



<b>Precautionary statement – Prevention</b>	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.
<b>Precautionary statement – Disposal</b>	P501 Dispose of contents/container to an approved waste disposal plant.

**3. Composition/information on ingredients**



chem-supply

# Safety Data Sheet

infosafe  
CS: 1.7.2

Page: 2 of 5

Infosafe No™	1CH0H	Issue Date : November 2016	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

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<b>Chemical Characterization</b>	Liquid			
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u> <u>Risk Phrase</u>
	2-Phenoxyethanol	122-99-6	100 %	

## 4. First-aid measures

<b>Inhalation</b>	Remove victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Seek medical advice if effects persist.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Seek medical advice if effects persist.
<b>Eye contact</b>	Flush eye with copious quantities of water. If rapid recovery does not occur, obtain medical attention
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

## 5. Fire-fighting measures

<b>Hazards from Combustion</b>	Toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Products</b>	
<b>Specific Methods</b>	Small fire: Use dry chemical, CO <sub>2</sub> , water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
<b>Specific hazards arising from the chemical</b>	May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.
<b>Precautions in connection with Fire</b>	Wear SCBA and structural firefighter's uniform.

## 6. Accidental release measures

<b>Personal Precautions</b>	Avoid inhalation, contact with skin, eyes and clothing. Remove ignition sources
<b>Personal Protection</b>	Danger of slipping by leaking/spilt product.
<b>Clean-up Methods - Small Spillages</b>	Wear protective clothing specified for normal operations (see Section 8)
	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid ingestion and inhalation of gas/fumes/vapour/spray mists. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Keep container tightly closed. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Product may solidify at room temperature. Keep away from heat and all sources of ignition. Ground all equipment containing material. Containers of this material may be hazardous and may pose a fire risk when empty since they retain product residues (vapours, liquid), evaporate the residue under a fume hood; observe all warnings and precautions listed for the product.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed containers, in a cool, dry, well-ventilated area away from incompatible substances. This product should be stored away from foodstuffs and strong oxidising agents. Store under inert gas. Store away from naked flames, sparks and other sources of ignition. Ground all equipment containing material. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Product may solidify at room temperature. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.
<b>Storage Regulations</b>	Refer Australian Standard AS 1940-2004 'The storage and handling of flammable and combustible liquids'.



chem-supply

# Safety Data Sheet

infosafe  
CS: 1.7.2

Page: 3 of 5

Infosafe No™	1CH0H	Issue Date : November 2016	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

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Classified as hazardous

**Storage** Store at room temperature (15 to 25 °C recommended).

**Temperatures**

**Unsuitable Materials** Copper, aluminium, galvanized steel and galvanized iron.

## 8. Exposure controls/personal protection

**Other Exposure Information** A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by SafeWork Australia for this product. There is a blanket limit of 10 mg/m<sup>3</sup> for mists when limits have not otherwise been established.

**Appropriate engineering controls** In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

**Respiratory Protection** Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.

**Eye Protection** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

**Hand Protection** Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: NR latex.

**Personal Protective Equipment** Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.

**Footwear** Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

**Body Protection** Flame retardant protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

**Hygiene Measures** Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

**Form** Liquid

**Appearance** Oily colourless liquid.

**Odour** Faint aromatic odour.

**Melting Point** ~ 13 °C

**Freezing Point** 12°C

**Boiling Point** 244 - 250 °C (1013 hPa)

**Solubility in Water** Moderately soluble (24 g/l (20 °C)).

**Solubility in Organic Solvents** Freely soluble in alcohol, ether, and sodium hydroxide; soluble in alkali.

**Specific Gravity** 1.1094 @ 20 °C/20 °C

**pH** ~7 (10 g/l, H<sub>2</sub>O, 23 °C)

**Vapour Pressure** 0.04 mm Hg at 25 °C

**Vapour Density (Air=1)** 4.77

**Evaporation Rate** 0.001 (n-butyl acetate=1)

**Coefficient Water/Oil Distr.** The product is equally soluble in oil and water; log(oil/water) = 0.1.

**Viscosity** 20 mPas (20 °C)

**Partition Coefficient: n-octanol/water** log Kow= 1.16 (measured); log Pow= 1.16 (experimental).

**Flash Point** 121 °C (CC).

**Flammability** Combustible.



chem-supply

# Safety Data Sheet

infosafe  
CS: 1.7.2

Page: 4 of 5

Infosafe No™	1CH0H	Issue Date : November 2016	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

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Classified as hazardous

<b>Auto-Ignition Temperature</b>	~535 °C.
<b>Flammable Limits - Lower</b>	1.4 Vol%
<b>Flammable Limits - Upper</b>	9.0 Vol%
<b>Molecular Weight</b>	138.17
<b>Dynamic Viscosity</b>	30 mPa*s (20 °C)
<b>Other Information</b>	Taste: Burning taste.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Conditions to Avoid</b>	Heat, flame, other sources of ignition.
<b>Incompatible Materials</b>	Oxidizing agents, acid anhydrides, strong acids and alkalis.
<b>Hazardous Decomposition Products</b>	Toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Possibility of hazardous reactions</b>	Reactive with oxidizing agents.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat): 1850 mg/kg.
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit): >2000 mg/kg
<b>Ingestion</b>	Harmful if swallowed. Ingestion of this product will irritate the gastric tract causing nausea, vomiting, and sometimes diarrhoea. May cause effects on the central nervous system and peripheral nervous system, resulting in impaired functions. May cause central nervous system depression, characterized by excitement, followed by headache, narcosis, dizziness, drowsiness, and nausea. Advanced stages may cause abdominal pain, lumbar pain, collapse, unconsciousness, coma and possible death due to respiratory failure. May cause costovertebral angle tenderness, kidney failure, cardiovascular disorders. Lesions may appear in the brain, lungs, liver, meninges, and heart.
<b>Inhalation</b>	Inhalation of vapours may cause irritations of the mucous membranes of the nose, throat and respiratory system. Symptoms may include coughing, sore throat, breathing difficulties, dyspnoea, euphoria, headache, drowsiness, slurred speech and nausea.
<b>Skin</b>	Severe irritation or burns. Skin inflammation is characterized by itching, drying, scaling, reddening, or, occasionally, blistering. Risk of absorption! Harmful if absorbed through the skin. Numbness of the hands and fingers. (Further see Inhalation and Ingestion).
<b>Eye</b>	Severe irritation or burns. Inflammation of the eye is characterized by redness, watering, tearing, stinging, blurred vision, and itching.
<b>Skin Sensitisation</b>	Sensitisation test (Magnusson and Kligman): No sensitising effect.
<b>Carcinogenicity</b>	Not listed in the IARC Monographs.
<b>Chronic Effects</b>	Repeated or prolonged exposure to the substance can produce damage to kidneys, the nervous system, and liver. Chronic ingestion may cause effects similar to those of acute ingestion. Repeated or prolonged inhalation of vapours may lead to chronic respiratory irritation. Prolonged exposure to vapours may cause serious damage to the eyes. Prolonged or repeated skin contact may cause defatting leading to dermatitis.
<b>Mutagenicity</b>	No evidence of mutagenic properties.

## 12. Ecological information

<b>Ecological Information</b>	No ecological problems are to be expected when the product is handled and used with due care and attention.
<b>Ecotoxicity</b>	When introduced properly, no impairments in the function of waste-water-treatment plants are to be expected.



chem-supply

# Safety Data Sheet

infosafe  
CS: 1.7.2

Page: 5 of 5

Infosafe No™	1CH0H	Issue Date : November 2016	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

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<b>Persistence and degradability</b>	Biodegradation: 80-90%/28d. Readily biodegradable.
<b>Mobility</b>	Distribution: log P(o/w): 1.16 (experimental).
<b>Bioaccumulative Potential</b>	No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3).
<b>Acute Toxicity - Fish</b>	LC50 (L. idus): 220-460 mg/l /96 h.
<b>Acute Toxicity - Daphnia</b>	EC50 (Daphnia magna): >500 mg/l /48 h.
<b>Acute Toxicity - Algae</b>	IC50 (Scenedesmus sp.): >500 mg/l /72 h.
<b>Acute Toxicity - Bacteria</b>	EC50 (Activated sludge): 320 mg/l /17 h.

## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. Regulatory information

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS).
<b>Poisons Schedule</b>	S6

## 16. Other Information

<b>Literature References</b>	<p>'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015.</p> <p>Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.</p> <p>National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.</p> <p>Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.</p> <p>Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.</p> <p>Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.</p> <p>Safe Work Australia, 'Hazardous Substances Information System, 2005'.</p> <p>Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.</p> <p>Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.</p>
<b>Contact Person/Point</b>	<p>Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b></p> <p>All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.</p>
<b>Empirical Formula &amp; Structural Formula</b>	<p>Empirical Formula: C<sub>8</sub>H<sub>10</sub>O<sub>2</sub>.</p> <p>Structural Formula: C<sub>6</sub>H<sub>5</sub>OCH<sub>2</sub>CH<sub>2</sub>OH.</p> <p>...End Of MSDS...</p>

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