

Infosafe No™ 1CH9P Issue Date : September 2021 RE-ISSUED by CHEMSUPP

Product Name **CYCLOHEXANOL**

Classified as hazardous

1. Identification

GHS Product Identifier CYCLOHEXANOL

Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

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Recommended use of the chemical and restrictions on use Soap making to incorporate solvents and phenolic insecticides, source of adipic acid for nylon, textile finishing, solvent for alkyd and phenolic resins, cellulosics, blending agent, lacquers, paints, varnishes, finish removers, emulsified products, leather degreasing, polishes, plasticizers, plastics, germicides and laboratory reagent.

Other Names	<u>Name</u>	<u>Product Code</u>
	Hexahydrophenol	
	Hexalin	
	CYCLOHEXANOL LR	CA155

Other Information ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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

GHS classification of the substance/mixture Acute Toxicity - Inhalation: Category 4
Acute Toxicity - Oral: Category 4
Skin corrosion/irritation - Category 2
Specific Target Organ Toxicity -Single Exposure Category 3 (respiratory tract irritation)

Signal Word (s) WARNING

Hazard Statement (s) H302 Harmful if swallowed.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Pictogram (s) Exclamation mark



Precautionary statement – Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves.

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Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell.
Precautionary statement – Storage	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Cyclohexanol	108-93-0	100 %

4. First-aid measures

Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.
Skin	Wash with plenty of soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
First Aid Facilities	Normal washroom facilities are generally suitable. Ensure an eyewash station and safety shower are available and ready for use.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Specific Methods	Small fire: Use dry chemical, CO2, 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.
Specific hazards arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid inhalation, contact with skin, eyes and clothing.
Personal Protection	Use personal protective equipment listed in Section 8.
Clean-up Methods - Small Spillages	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.
Clean-up Methods - Large Spillages	Seek expert advice on handling and disposal.

7. Handling and storage

Precautions for Safe Handling	Only use in well-ventilated areas. When using do not eat, drink or smoke. Avoid prolonged or repeated contact with skin, eyes and clothing.
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Conditions for safe storage, including any incompatibilities Store away from sources of heat or ignition. Store away from oxidizing agents. Keep container tightly closed and dry, away from direct sunlight. Store at room temperature (15 - 25 °C).

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Cyclohexanol			206	50	
Other Exposure Information	These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established for Cyclohexanol (Safe Work Australia) of 206 mg/m³, (50 ppm). The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. Note: Absorption through the skin may be a significant source of exposure.					
Appropriate engineering controls	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	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.					
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.					
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 antistatic 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	Colourless or slight yellow, oily liquid or solid.
Odour	Camphor or menthol-like odour.

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Melting Point	20 - 22 °C
Boiling Point	161 °C
Solubility in Water	Slightly soluble.
Solubility in Organic Solvents	Miscible with most organic solvents and oils.
Specific Gravity	0.95
Vapour Pressure	1.31 mm Hg @ 25 °C
Vapour Density (Air=1)	4.01
Evaporation Rate	0.08 (n-butyl acetate=1)
Viscosity	4.6 mPa @ 25 °C
Flash Point	69 °C
Auto-Ignition Temperature	300 °C
Flammable Limits - Lower	1.25 Vol%
Flammable Limits - Upper	12.25 Vol%
Molecular Weight	100.16
Other Information	Dielectricity constant: 15 @ 25 °C

10. Stability and reactivity

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	Ignition sources, moisture, excess heat.
Incompatible Materials	Oxidising agents, nitric acid and chromium trioxide.
Hazardous Decomposition Products	Oxides of carbon.
Possibility of hazardous reactions	Violent reaction with nitric acid. Ignited by chromium trioxide.

11. Toxicological Information

Ingestion	Harmful if swallowed. Symptoms may include irritation of the throat, loss of appetite, nausea, vomiting, diarrhea, intoxication, headache, dizziness, drowsiness, disturbance of smell, taste and sleep, trembling of the limbs, weakness, central nervous system depression, mental excitement, possible vision defects, collapse, unconsciousness, coma and death due to respiratory failure.
Inhalation	Harmful by inhalation. Causes irritation of the mucous membranes in the respiratory tract, coughing, and dyspnoea. Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, vertigo, stupor, loss of appetite, nausea, vomiting, diarrhoea, disturbance of smell, taste and sleep, trembling of the limbs, weakness, mental excitement, possible vision defects, collapse, unconsciousness, coma and death.
Skin	Causes skin irritation. If absorbed, may cause central nervous system effects including headache, vertigo, stupor, collapse, coma and death. In a 48-hour closed patch test using 4% cyclohexanol in petrolatum, there was evidence of erythema or edema in human subjects. Dermal toxicity data from animals indicate that a Skin notation is appropriate to minimize the potential for skin irritation as well as dermal absorption leading to central nervous system effects.
Eye	Vapour may irritate the eyes. Liquid irritates the eyes and may cause conjunctivitis and more serious damage.

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Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not listed in the IARC Monographs. Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Specific target organ toxicity - single exposure (Category 3), Respiratory system H335 May cause respiratory irritation.
STOT-repeated exposure	Not classified based on available information.
Chronic Effects	Prolonged or repeated skin contact may cause defatting and dermatitis. Prolonged exposure may cause non-specific nervous system effects.
Serious eye damage/irritation	Not classified based on available information.
Skin corrosion/irritation	Skin corrosion/irritation - Category 2 H335 Causes skin irritation.

12. Ecological information

Ecotoxicity	Toxic for aquatic organisms.
Persistence and degradability	Biodegradation: 97 %/7 d Zahn-Wellens test. Easily eliminable. Biodegradation: 94-99 %/28 d MITI test. Readily biodegradable. Degradability: BOD 4% of ThOD / 5d; COD 95% of ThOD; ThOD: 2.828 g/g.
Mobility	Behaviour in environmental compartments: log P(o/w): 1.23.
Bioaccumulative Potential	No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3).
Other Precautions	Do not allow to enter waters, waste water, or soil!
Acute Toxicity - Fish	P. promelas LC50: 705 mg/l/96 h. L. macrochirus LC50: 1100 mg/l/96 h.
Acute Toxicity - Daphnia	Daphnia magna EC50: >500 mg/l/24 h.
Acute Toxicity - Algae	EC50 - Desmodesmus subspicatus (green algae) - 29,2 mg/l - 72 h

13. Disposal considerations

Disposal Considerations	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

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Environmental Hazards	Toxic to aquatic organisms.

15. Regulatory information

Regulatory Information	All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

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16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: 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. ChemSupply Australia Pty Ltd 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.
Empirical Formula & Structural Formula	C6 H12 O ...End Of MSDS...

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