



Infosafe No™	1CHIM	Issue Date : February 2016	RE-ISSUED by CHEMSUPP
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Product Name : **HEXAN-1-OL**

Classified as hazardous

1. Identification

GHS Product Identifier	HEXAN-1-OL		
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
Recommended use of the chemical and restrictions on use	Pharmaceuticals (introduction of hexyl group into hyponotics, antiseptics, perfume esters) solvent, plasticizer, intermediate for textile and leather finishing agents, synthetic flavouring agent and laboratory agent.		
Other Names	Name	Product Code	
	HEXAN-1-OL LR n-Hexanol, 1-Hexanol, n-Hexyl alcohol	HL010	
Other Information	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

GHS classification of the substance/mixture	Acute Toxicity - Dermal: Category 4 Eye Damage/Irritation: Category 2A Flammable Liquids: Category 3 Acute Toxicity - Oral: Category 4
Signal Word (s)	WARNING
Hazard Statement (s)	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H319 Causes serious eye irritation.
Pictogram (s)	Flame, Exclamation mark



Precautionary statement – Prevention	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. 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.
Precautionary statement – Response	Swallowed P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. Skin P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.



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Precautionary statement – Storage
Precautionary statement – Disposal

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P363 Wash contaminated clothing before reuse.
Eye
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Fire
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical Characterization Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Liquid	Hexan-1-ol	111-27-3	100 %	Xn	R22

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

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

Hazards from Combustion Products Aldehydes and oxides of carbon.

Specific Methods Small fire: Use foam, dry chemical, CO2 or water spray.
Large fire: Use foam, fog or water spray - Do not use water jets.
If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside containers.

Specific hazards arising from the chemical May be ignited by heat, sparks or flame. Vapour may form explosive mixtures with air. Vapour may travel to source of ignition and flash back. Vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Liquids is lighter than water. Containers may explode when heated. Vapours from runoff may create explosion hazard. Fire will produce irritating, poisonous and/or corrosive gases.

Hazchem Code 3Y

Precautions in connection with Fire Wear SCBA and fully-encapsulating, gas-tight suit when handling these substances. Structural firefighter's uniform is NOT effective for these materials.

6. Accidental release measures

Spills & Disposal ELIMINATE all ignition sources (no smoking, flares, sparks or flames) within at least 25m - All equipment used when handling the product must be earthed. Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours - Water spray may be used to knock down or divert vapour clouds. Absorb with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect absorbed material and place it into loosely-covered metal or plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Precautions Evacuate the area of all non-essential personnel. Remove ignition sources Avoid inhalation, contact with skin, eyes and clothing.



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- Personal Protection** Wear protective clothing specified for normal operations (see 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** Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.
- Conditions for safe storage, including any incompatibilities** Store away from oxidizing agents. Keep containers securely sealed and protected against physical damage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Areas where a build up of flammable vapours may occur must be designated no smoking areas. Inert gas blanket and breathing system is needed to maintain color stability. Use dry inert gas having at least -40F dew point. Keep container tightly closed and in a cool, dry, well-ventilated place, away from sources of heat or ignition. Hot water system recommended for temperature control when storage is at temperatures below melting point. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid). Observe all warnings and precautions listed for the product.
- Storage Regulations** Refer Australian Standard AS 1940-2004 'The storage and handling of flammable and combustible liquids'. Refer Australian Standard AS/NZS 2243.10:2004 'Safety in laboratories - Storage of chemicals'.

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/m³ 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: Excellent: NR latex, vinyl, nitrile, neoprene gloves.
- 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** Colourless liquid.
- Odour** Mild, characteristic, fruity odour.
- Freezing Point** -52.0 °C
- Boiling Point** 157 °C
- Solubility in Water** Slightly soluble (0.59 g/100 g water).
- Solubility in Organic Solvents** Soluble in alcohol, acetone, benzene and ether.



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Specific Gravity	0.82
Vapour Pressure	1 hPa @ 20 °C.
Vapour Density (Air=1)	3.5
Evaporation Rate	0.05
Odour Threshold	Detection: 0.007 - 0.01 ppm, recognition: 0.09 ppm.
Viscosity	0.592 mPa.s
Volatile Component	100%
Partition Coefficient: n-octanol/water	Log P(o/w): 2.03
Flash Point	59 °C (Closed cup), 62 °C (Open Cup).
Flammability	Combustible liquid.
Auto-Ignition Temperature	285 °C
Flammable Limits - Lower	1.2%
Flammable Limits - Upper	7.7%
Molecular Weight	102.18
Other Information	Conversion factor: 1 ppm = 4.17 mg/m ³ ; 1 mg/m ³ = 0.24 ppm @ 25 °C Refractive index: 1.1469 @ 25 °C

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage.
Conditions to Avoid	Heat, ignition sources and incompatibilities.
Incompatible Materials	Oxidising agents, strong acids, inorganic acids and halogens.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.
Possibility of hazardous reactions	Increased risk of fire and explosion in contact with oxidising agents. May react vigorously with strong acids.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptom or effects may occur.
Acute Toxicity - Oral	LD50 (rat): 720 mg/kg.
Acute Toxicity - Dermal	LD50 (rabbit): 1500 mg/kg.
Ingestion	Harmful if swallowed. May cause headache, dizziness, confusion, nausea and vomiting. Aspiration into the lungs may occur during swallowing or vomiting, resulting in lung damage. After the absorption of large quantities may cause narcosis.
Inhalation	Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. May cause headache, dizziness, nausea and loss of co-ordination. May have central nervous system effects.
Skin	May cause irritation and possibly dermatitis. May be harmful if absorbed through the skin. Degreasing effect on the skin, possibly followed by secondary inflammation.
Eye	Liquid and vapour causes severe eye irritation with redness, tearing. Splashes have caused temporary corneal damage. May cause corneal burns.
Carcinogenicity	Not listed in the IARC Monographs.
Chronic Effects	Repeated or prolonged exposure to liquid can cause dermatitis (dry, cracked, thickened, reddened skin).
Mutagenicity	No evidence of mutagenic properties.



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Skin corrosion/irritation Rabbit: remarks: mild irritation effect.

12. Ecological information

Ecological Information No ecological problems are to be expected when the product is handled and used with due care and attention.

Ecotoxicity This material is expected to be slightly toxic to aquatic life.

Persistence and degradability Biological degradation:
Biodegradation: 77 %/30 d. Readily biodegradable.

Environmental Fate Behaviour in environmental compartments:
Distribution: Log P(o/w): 2.03

Bioaccumulative Potential No appreciable bioaccumulation is to be expected (log P(o/w) 1-3).

Acute Toxicity - Fish LC50 (Pimephales promelas - fathead minnow): 97 mg/l /96 h.

Acute Toxicity - Daphnia EC50 (Daphnia magna): >100 mg/l /24 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.

14. Transport information

Transport Information Dangerous Goods of Class 3 Flammable Liquids, are incompatible in a placard load with any of the following: - Class 1, Class 2.1, if both the Class 3 and Class 2.1, dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane and Class 7.

U.N. Number 2282

UN proper shipping name HEXANOLS

Transport hazard class(es) 3

Hazchem Code 3Y

Packaging Method 3.8.3RT1

Packing Group III

EPG Number 3A1

IERG Number 17

15. Regulatory information

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule Not Scheduled

16. Other Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015.
Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
Safe Work Australia, 'Hazardous Substances Information System, 2005'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.



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Safety Data Sheet

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Contact

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

Person/Point

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Empirical Formula & Structural Formula CH₃(CH₂)₅OH

...End Of MSDS...

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