



chem-supply

Safety Data Sheet

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Infosafe No™	3CH7X	Issue Date : February 2016	RE-ISSUED by CHEMSUPP
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Product Name : **CATALASE**

Not classified as hazardous

1. Identification

GHS Product CATALASE

Identifier

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address 38 - 50 Bedford Street GILLMAN
SA 5013 AustraliaTelephone/Fax Tel: (08) 8440-2000
Number Fax: (08) 8440-2001

Recommended use of the chemical and restrictions on use Laboratory reagent.

Other Names

NameProduct Code

CATALASE LR

CL571

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 Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia.

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Water	7732-18-5	75-76 %		
	Sodium chloride	7647-14-5	15-20 %		
	Sodium Citrate Dihydrate	6132-04-3	1-5 %		
	Monosodium phosphate	7558-80-7	1-5 %		
	Catalase	9001-05-2	0-<1 %		

4. First-aid measures

Inhalation Remove to fresh air. Seek medical advice if effects persist.

Ingestion Rinse mouth thoroughly with water immediately. If rapid recovery does not occur, obtain medical attention

Skin Wash affected areas with copious quantities of water immediately. Seek medical advice if effects persist.

Eye contact Flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical advice if effects persist.

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

Specific Methods Use extinguishing media most appropriate for the surrounding fire.

Specific hazards arising from the chemical Material does not burn.



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Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

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.

7. Handling and storage

Precautions for Safe Handling Avoid contact with skin. Avoid contact with eyes.**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed and in a well-ventilated place.

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 Safe Work Australia for this product. There is a blanket limit of 10 mg/m³ for dusts 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.**Personal Protective Equipment** Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.**Body Protection** 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

Appearance Light brown liquid.**Odour** Typical odour of fermented product.**Solubility in Water** Soluble**Specific Gravity** 1.18 - 1.28**pH** pH 5.1 - 5.4**Flash Point** > 100 °C / 210 °F**Flammability** Non flammable.

10. Stability and reactivity

Chemical Stability Stable under normal use conditons.**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.



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Acute Toxicity - Oral	LD50 (rat): >5000 mg/kg (catalase); LD50 (rat): 8290 mg/kg (monosodium phosphate); LD50 (rat): 3000 mg/kg (sodium chloride).
Acute Toxicity - Dermal	LD50 (rabbit): >7940 mg/kg (monosodium phosphate); LD50 (rabbit): >1000 mg/kg (sodium chloride).
Acute Toxicity - Inhalation	LD50 (rat): 42000 mg/kg (sodium chloride).
Ingestion	Not expected to be toxic by ingestion.
Inhalation	May cause slight irritation.
Skin	May cause slight irritation.
Eye	May cause slight irritation.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	Inhalation of enzyme dust/mist may cause allergic respiratory reactions including asthma in susceptible individuals on repeated exposure.
Mutagenicity	No evidence of mutagenic effects. Catalase - not mutagenic in bacterial assays in the presence and absence of metabolic activation up to 5,000 microns/plate.

12. Ecological information

Ecotoxicity	The product is believed to not be a dangerous to the environment with respect to mobility, persistency and degradability, bioaccumulative potential, aquatic toxicity and other measures or relating to ecotoxicity.
Persistence and degradability	Enzymes are considered readily biodegradable.
Mobility	Soluble.
Bioaccumulative Potential	Bioaccumulation is unlikely.
Acute Toxicity - Fish	LC50 (Gambusia ffinis): 186 mg/L/96hr (Monosodium phosphate); LC50 (Bluegill sunfish): 9675 mg/l/96hr (Sodium chloride).
Acute Toxicity - Daphnia	LC50 (Daphnia): 1000 mg/l/48hr (Sodium chloride).

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.
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15. Regulatory information

Poisons Schedule	Not Scheduled
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16. Other Information

Literature References	<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)]'.</p>
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Contact

Person/Point

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

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Empirical Formula & Mixture

Structural Formula

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