



Infosafe No™	3CH7Z	Issue Date : July 2017	RE-ISSUED by CHEMSUPP
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Product Name : **PECTINASE**

Classified as hazardous

1. Identification**GHS Product Identifier** PECTINASE**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**Other Names** Name

PECTINASE LR

Product Code

PL379

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** Sensitization - Respiratory: Category 1**Signal Word (s)** DANGER**Hazard Statement (s)** H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**Pictogram (s)** Health hazard**Precautionary statement – Prevention** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P285 In case of inadequate ventilation wear respiratory protection.**Precautionary statement – Response** P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.**3. Composition/information on ingredients**

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Glycerol	56-81-5	30-60 %		
	Water	7732-18-5	30-60 %		
	Mannanase	37288-54-3	0-10 %		
	Pectinase	9032-75-1	0-10 %		

4. First-aid measures**Inhalation** If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make patient comfortable, keep warm and at rest until fully recovered. If breathing is difficult (or develops a bluish skin discolouration), supply oxygen by a qualified person. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately



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Ingestion	medical attention is required. Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
Skin	Wash skin with water using soap if available. If rapid recovery does not occur, obtain medical attention
Eye contact	In case of contact with eyes, wash with running water holding eyelids open. Take care not to rinse contaminated water into a non-affected eye. If irritation persists seek medical advice.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat asthma in the normal way and remove patient from further exposure to enzyme dust until symptoms are controlled. Advise workplace of the need to control dust exposure. Patient may require high level of respiratory protection if a trial return to same work is attempted. Treat allergic contact dermatitis in the normal way and remove patient from further exposure until control is achieved. Advise workplace of need to control worker exposure. Advise worker on need for high levels of skin care if trial of return to same work is attempted.
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

Suitable extinguishing media	Water, foam, halones.
Specific Methods	Use appropriate extinguishing media to suit surrounding area.
Specific hazards arising from the chemical	May cause sensitisation by inhalation of dust or aerosols.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Spills & Disposal	Use appropriate personal protection (see Section 8). Provide for sufficient ventilation. Avoid contact with product. Contain and remove spilled product by mechanical means or with a vacuum cleaner equipped with a high efficiency filter. Avoid generation of aerosols with high pressure sprays.
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.

7. Handling and storage

Precautions for Safe Handling	Use personal protection (see Section 8). Avoid formation of aerosols. Provide adequate ventilation when handling this product.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place.

8. Exposure controls/personal protection

Occupational exposure limit values	<u>Name</u>	STEL		TWA		<u>Footnote</u>
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	Glycerol			10		As Glycerin mist
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/m ³ for mists when limits have not otherwise been established.					
Appropriate engineering controls	Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted average). Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940-The storage and handling of flammable and combustible liquids and AS 2430-Explosive gas atmospheres for further information concerning ventilation requirements.					



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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	Amber to dark brown liquid.
Odour	Typical fermentation odour.
Boiling Point	100°C
Solubility in Water	Completely miscible.
Specific Gravity	1.10 - 1.30
pH	4.5 - 5.5
Vapour Pressure	13mm at 20°C

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of use and storage.
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11. Toxicological Information

Ingestion	May be harmful if swallowed.
Inhalation	Repeated inhalation of aerosol or dust may cause sensitisation and will cause allergic type reactions in sensitised individuals. May be irritating.
Skin	May cause skin irritation with prolonged contact.
Eye	Direct contact with eyes may cause irritation.
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecological Information	This product is not believed to be dangerous to the environment with respect to mobility, persistency and degradability, bioaccumulative potential, aquatic toxicity and other measures of relating to ecotoxicity.
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13. Disposal considerations

Disposal Considerations	Liquid spills should be flushed with water to approved sewer (avoid high pressure rinsing). Vacuum or moisten any dried spills with water and collect into closed impermeable disposal containers. Do not use cleaning methods that generate dust or aerosol. Dispose of closed containers of absorbed material into landfill in accordance with local 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

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



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Safety Data Sheet

infosafe
CS: 1.7.2

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**Literature
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Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
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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) 3rd Edition]'.
Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

**Contact
Person/Point**

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