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| Infosafe No™ | 3CH7U | Issue Date : February 2016 | RE-ISSUED by CHEMSUPP |
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Product Name : **LIPASE**

Classified as hazardous

1. Identification

GHS Product Identifier LIPASE

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 Food industry, pharmaceuticals.

| Other Names | Name | Product Code |
|--------------------------|---|--------------|
| | LIPASE LR Triacylglycerol Acylhydrolase | LL107 |
| 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 Specific target organs toxicity -Single Exposure Category 3 - Respiratory system

Signal Word (s) WARNING

Hazard Statement (s) H335 May cause respiratory irritation.

Pictogram (s) Exclamation mark



Precautionary statement – Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

Precautionary statement – Response 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.

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 |
|-------------|-------------------------------|----------|------------|---------------|-------------|
| | Triacylglycerol Acylhydrolase | 900-62-1 | 0-30 % | Xn | R42 |

4. First-aid measures



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| 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. Seek medical advice if effects persist. |
| Skin | Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention. |
| Eye contact | Wash with large amounts of water for approximately 15 minutes, holding eyelids open. Seek medical attention if irritation develops or persist. |
| 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 the 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 level 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

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| Specific Methods | Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. |
| Precautions in connection with Fire | Wear SCBA and structural firefighter's uniform. |

6. Accidental release measures

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| Personal Precautions | Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. |
| Personal Protection | Wear protective clothing specified for normal operations (see Section 8) |
| Clean-up Methods - Small Spillages | Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations. |

7. Handling and storage

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| Precautions for Safe Handling | Avoid generation or accumulation of dusts. |
| Conditions for safe storage, including any incompatibilities | Store in a cool, dry place. |

8. Exposure controls/personal protection

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| 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 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 |



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protective equipment before storing or re-using.

9. Physical and chemical properties

Appearance White to light tan powder.
Odour Bland or mild fermentation type odour.
Solubility in Water Soluble in water.
Solubility in Organic Solvents Insoluble.
Flammability Non flammable.

10. Stability and reactivity

Chemical Stability Stable under normal use conditons.
Hazardous Polymerization Will not occur.

11. Toxicological Information

Toxicology Information Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. 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.
Ingestion May be harmful if swallowed.
Inhalation May experience symptoms such as shortness of breath, wheezing or laboured coughing.
Skin May cause mild skin irritation.
Eye May cause mild irritation.
Carcinogenicity No evidence of carcinogenic properties.
Chronic Effects Repeated inhalation of aerosol or dust may cause sensitisation and will cause allergic type reactions in sensitised individuals. May be irritating. Oral: Non-toxic.
Mutagenicity No evidence of mutagenic effects.

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.

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 Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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)]'.



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Safety Data Sheet

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CS: 1.7.2

Page: 4 of 4

| | | | |
|--------------|-------|----------------------------|-----------------------|
| Infosafe No™ | 3CH7U | Issue Date : February 2016 | RE-ISSUED by CHEMSUPP |
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**Contact
Person/Point**

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