



Infosafe No™	1CHBE	Issue Date : June 2017	RE-ISSUED by CHEMSUPP
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Product Name : **DIASTASE**

Classified as hazardous

1. Identification

GHS Product Identifier	DIASTASE		
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	Baking, brewing, distilling, manufacture of food products, animal feed, sewage treatment, dry cleaning and laboratory reagent.		
Other Names	Name		Product Code
	DIASTASE LR a-Amylase		DL026
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 1A
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	Inhaled 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

Chemical Characterization	Solid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Potassium sulfate	7778-80-5	94.5-95.5 %		
	a-Amylase	9001-19-8	4.5-5.5 %		



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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. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.
Skin	Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. Seek medical attention in severe cases, or if irritation develops.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention
First Aid Facilities	Maintain eyewash fountain and drench facilities in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient. Consider the effects of potassium salts on the heart.
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	Irritating and toxic fumes, including sulfur oxides (SO ₂ , SO ₃ , etc.), carbon oxides, nitrogen oxides and potassium oxides.
Specific Methods	No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam.
Specific hazards arising from the chemical	Material is not combustible. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive fumes (e.g. sulphur oxides).
Decomposition Temp.	Can decompose at temperatures above 85 °C.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

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

Precautions for Safe Handling	Avoid ingestion and inhalation of dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Minimize dust generation and accumulation. Keep containers closed when not in use. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable protective clothing. Change contaminated clothing. Wash hands after working with substance. Wash thoroughly after handling. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
Conditions for safe storage, including any incompatibilities	Store in tightly closed containers, in a cool, dry, well-ventilated area, away from moisture. Hygroscopic, store under inert gas. Protect against physical damage. Keep well closed and protected from direct sunlight and moisture. Refrigerate to ensure prolonged activity.
Storage Temperatures	Store at a temperature between 2 and 4 °C.
Unsuitable Materials	Aluminium and magnesium.

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/m ³ for dusts when limits have not otherwise been established.
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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 dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
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: PVC or rubber gloves.
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. 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	Solid
Appearance	Light tan/beige amorphous powder.
Odour	Typical fermentation odour.
Decomposition Temperature	Can decompose at temperatures above 85 °C.
Solubility in Water	Soluble in water.
Flammability	Non combustible material.
Explosion Properties	Dust dispersed in air may become explosive when exposed to ignition source.

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage. Moisture sensitive.
Conditions to Avoid	Extremes of temperature, direct sunlight, dust generation and incompatible materials.
Incompatible Materials	Strong oxidisers, aluminium and magnesium.
Hazardous Decomposition Products	Irritating and toxic gases, including sulfur oxides (SO ₂ , SO ₃ , etc.), carbon oxides, nitrogen oxides and potassium oxides.
Possibility of hazardous reactions	May react with aluminium and magnesium.
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.
Ingestion	Large oral dosages may produce gastrointestinal disturbances and irritation, causing nausea, vomiting and diarrhoea. Potassium sulfate has been used as a cathartic. Potassium poisoning may occur in rare cases of long exposure or ingestion.
Inhalation	Inhalation of product dusts may cause mild to moderate irritation to mucous membranes of the nose, throat and respiratory system, with sneezing or coughing.
Skin	The substance is mildly irritating to the skin, resulting in redness and itching. Risk of sensitization.
Eye	May cause mild to moderate eye irritation, tearing, stinging, blurred vision, and redness.
Carcinogenicity	Not listed in the IARC Monographs.



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Reproductive Toxicity	No evidence of reproductive effects.
Chronic Effects	Not expected to be a health hazard. Potassium poisoning may occur in rare cases of long exposure or ingestion by persons suffering with a heart condition, with the following symptoms possibly arising: nausea, vomiting, diarrhoea and abdominal cramps which may lead to weakness, mental confusion, hypotension, paralysis and possible circulatory disturbances including cardiac arrhythmias, heart block and cardiac arrest. Repeated inhalation of the powder may induce sensitization, which may develop into allergic rhinitis and bronchospasm.
Mutagenicity	No evidence of mutagenic effects.

12. Ecological information

Ecological Information	No ecological problems are to be expected when the product is handled and used with due care and attention.
Persistence and degradability	Methods for the determination of biodegradability are not applicable to inorganic substances (Potassium sulphate).
Bioaccumulative Potential	Concentration in organisms is not to be expected.
Acute Toxicity - Fish	Lepomis macrochirus LC50: 3550 mg/l /96 h (Potassium sulphate). The following applies to sulfate in general: fish: toxic as from 7 g/l ; bacteria: toxic as from 2.5 g/l.
Acute Toxicity - Daphnia	Daphnia magna EC50: 890 mg/l /48 h (Potassium sulphate).
Acute Toxicity - Algae	Desmodesmus subspicatus IC50: 2900 mg/l /72 h (Potassium sulphate).

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and 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	'Standard for the Uniform Scheduling of Medicines and Poisons No. 15', Commonwealth of Australia, November 2016. 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) 3rd Edition]'. 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. Chem-Supply 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.
Contact Person/Point	



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Safety Data Sheet

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