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| Infosafe No™ | 1CHBE | Issue Date : July 2012 | RE-ISSUED by CHEMSUPP |
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Product Name : **DIASTASE**

Classified as hazardous

1. Identification

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| 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

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| 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 |



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| 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. |

3. Composition/information on ingredients

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| 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 % | Xn | R42 |

4. First-aid measures

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| Inhalation | Remove from exposure, rest and keep warm. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention. |
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| Ingestion | Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Never give anything by mouth to an unconscious person. If swallowed, do NOT induce vomiting. Seek medical attention in severe cases. |
| Skin | Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. Seek medical attention in severe cases. |
| 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 drench facilities in work area. |
| Advice to Doctor | Treat symptomatically and supportively. Consider the effects of potassium salts on the heart. |

5. Fire-fighting measures

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| 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 | Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. |
| 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). Containers may explode when heated. |
| 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

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| Spills & Disposal | Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL. |
| Personal Precautions | Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. |

7. Handling and storage

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| Precautions for Safe Handling | Avoid ingestion and inhalation of vapours, or 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. If ingested, seek medical advice immediately and show the container or the label. 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. 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. 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

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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. |



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| 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. |
| 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

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| 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

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| 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

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| Acute Toxicity - Oral | LD50 (rat): 2000 mg/kg (Alpha-amylase from <i>Aspergillus oryzae</i>); LD50 (rat): 6600 mg/kg (Potassium sulphate); LDLo (woman): 750 mg/kg (Potassium sulphate). |
| 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. |
| 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, |



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| Mutagenicity | hypotension, paralysis and possible circulatory disturbances including cardiac arrhythmias, heart block and cardiac arrest. Rarely, repeated inhalation of the powder may induce sensitization, which may develop into allergic rhinitis and bronchospasm. No evidence of mutagenic effects. |
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12. Ecological information

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| 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

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| Disposal Considerations | Dispose of according to relevant local, state and federal government regulations. |
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14. Transport information

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| 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

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| Poisons Schedule | Not Scheduled |
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16. Other Information

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| 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)]'. Contact Person/Point 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. ...End Of MSDS... |
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