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 Information:

Other Names:
- DIASTASE LR
- a-Amylase

Other Information:

Sensitization - Respiratory: Category 1A

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 – 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.

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

3. Composition/information on ingredients

Chemical Characterization:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
<th>Hazard Symbol</th>
<th>Risk Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium sulfate</td>
<td>7778-80-5</td>
<td>94.5-95.5 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a-Amylase</td>
<td>9001-19-8</td>
<td>4.5-5.5 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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**  
Irritating and toxic fumes, including sulfur oxides (SO₂, SO₃, etc.), carbon oxides, nitrogen oxides and potassium oxides.

**Specific Methods**  
No limitations to the type of extinguishing media.  
Small fire: Use dry chemical, CO₂ water spray or foam.  
Large fire: Use water spray, fog or foam.

**Specific hazards arising from the chemical Decomposition Temp.**  
Material is not combustible. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive fumes (e.g. sulphur oxides).

**Precautions in connection with Fire**  
Can decompose at temperatures above 85 °C.  
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. 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.

**Conditions for safe storage, including any incompatibilities**  
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/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 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

Form: Solid
Appearance: Light tan/beige amorphous powder.
Odour: Typical fermentation odour.
Decomposition: Can decompose at temperatures above 85 °C.
Temperature 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 (SO2, SO3, 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.
Safety Data Sheet

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Product Name : DIASTASE

Classified as hazardous

Reproductive Toxicity
Chronic Effects

No evidence of reproductive 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.

No evidence of mutagenic effects.

12. Ecological information

Ecological Information
Persistence and degradability
Bioaccumulative Potential

No ecological problems are to be expected when the product is handled and used with due care and attention.

Methods for the determination of biodegradability are not applicable to inorganic substances (Potassium sulphate).

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.

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
Poisons Schedule

Not Scheduled

16. Other Information

Literature References
'Standard for the Uniform Scheduling of Medicines and Poisons No. 15', Commonwealth of Australia, November 2016.


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)'.


Contact Person/Point

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

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Product Name: DIASTASE

Classified as hazardous

...End Of MSDS...