

SAFETY DATA SHEET

1. Product and Company Identification

Company Name: Sierra (Aust) Pty Ltd
17 Delta Street,
GEEBUNG QLD 4034
sales@sierrachem.com.au

Emergency Contact: 07 3216 5099 Poisons Information Centre **13 11 26**

Product Name: **Megazyme**
Product Code:
Intended Use: Enzyme Agent
Chemical Nature: Mixture

2. Hazards Identification

2.1 GHS Hazard Classification

Physical: Non-hazardous
Health: Not applicable

2.2 GHS Label Elements

Symbol: Not applicable
Signal Word: Not applicable
Hazard Statement(s): Not applicable

**Precautionary Statement(s)
Prevention:**

P264

Wash all contaminated skin thoroughly after handling.

Response: P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists; Seek medical advice/attention.

Storage: Not applicable

Disposal: Not applicable

3. Composition / Information on Ingredients

Substance / Mixture: Mixture

| Chemical Name | Cas Number | % In Product |
|--|----------------|--------------|
| Ingredients deemed not to be hazardous | Not applicable | to 100% |

The remaining ingredients determined to be non-hazardous

4. First aid Measures

4.1 Description of Necessary First Aid Measures

Advice to First Aider: If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126)

Ingestion: Rinse mouth with water
If swallowed, do NOT induce vomiting
Give a glass of water to drink. Never give anything by the mouth to an unconscious person. If vomiting occurs, give further water.

Eye: Seek medical advice.
If in eyes wash out immediately with water. In all cases of eye contamination, it is a sensible precaution to seek medical advice.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

4.2 Medical Attention and Special Treatment

First Aid Facilities: Safety shower and eye wash station is advised

Comments: Treat according to symptoms. Seek medical advice or treatment if required.

Advice to Doctor: Advise of the chemical mixture.
Give the First Aid information given above.
Relate exactly how the accident happened and what has been done since then.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, dry agent (carbon dioxide, dry chemical powder)

5.2 Hazards from Combustion Products: Not applicable

5.3 Special Protective Precautions and Equipment for Fire Fighters: Not combustible, however following evaporation of aqueous component, residual material can burn if ignited.

5.4 Hazchem Code: Not applicable

6. Accidental Release Measures

6.1 Emergency Procedures:

Small Spills: Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

Large Spills: Clean area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Work up wind or increase ventilation. If contamination of crops, sewers or waterways has occurred advise local emergency services.

6.2 Methods and Materials for Containment and Clean Up:

Keep spilled material contained and away from drains and waterways. Mop up with absorbent material such as rags, sand or vermiculite. Best pumped into separate containers. Keep the public away from spills. Will be slippery underfoot. Use polyethylene containers or lined steel Drums. Dispose in according to Commonwealth and State regulations.

7. Handling and Storage

- 7.1 Precautions for safe handling:** Wash hands after handling. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.
- 7.2 Conditions for safe storage:** Keep out of reach of children. Keep container tightly closed. Store in a cool, dry, well ventilated area, removed from heat and foodstuffs. Ensure containers are adequately labeled, and sealed when not in use.

8. Exposure Controls and Personal Protection

8.1 National Exposure Standards:

| Ingredient | TWA | STEL |
|------------------------|---------------------|------|
| Enzyme (CAS 9014-01-1) | 60ng/m ³ | - |

8.2 Biological Limit Values:

None known

8.3 Engineering Controls:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

8.4 Personal Protective Equipment:

SAFETY SHOES, OVERALLS, GLOVES, CHEMICAL GOGGLES, RESPIRATOR.

Wear safety shoes, overalls, gloves, chemical goggles and respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from butyl rubber and nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and Chemical Properties

9.1 Physical Description/Properties

| | |
|---|----------------------|
| Appearance: | Green creamy liquid. |
| Odour: | citrus |
| pH: | 7.0 – 8.0 |
| Vapour Pressure (20°C): | N Av |
| Relative Vapour Density (air=1): | N Av |
| Boiling Point/Range (°C): | N Av |
| Freezing/Melting Point (°C): | N Av |
| Solubility: | Soluble in Water |
| Specific Gravity (@20°C): | 1.02 |

9.2 Information for Flammable Materials

| | |
|---------------------------------------|------|
| Flash Point (°C): | N Av |
| Lower Explosive Limit (%): | N Av |
| Upper Explosive Limit (%): | N Av |
| Autoignition Temperature (°C): | N Av |

| | | |
|------------|--|---|
| 9.3 | Additional Information | |
| | Specific Heat Value: | N Av |
| | Particle Size: | N Av |
| | Volatile Organic Compounds Content: | 0% |
| | Evaporation Rate: | Not determined |
| | Viscosity: | 5 – 20 cPs |
| | Octanol/Water Partition Coefficient: | Not determined |
| | Saturated Vapour Concentration: | Not determined |
| | Shock sensitivity: | None known |
| | Corrosiveness: | Low with most metals (similar to water) |
| | Oxidizing properties: | None known |
| | Reactivity with Common Substances: | Oxidizing agents |
| | Solubility in Organic Solvents: | Miscible with alcohols to a limited extent. |
| 9.4 | Additional Characteristics Not Noted Above | |
| | Flame Propagation/Burning Rate: | Not flammable |
| | Properties that may Initiate or Uniquely Contribute to the Intensity of a Fire: | Not flammable |
| | Potential for Dust Explosion: | None |
| | Reactions that Release Flammable Gases or Vapours: | Not flammable |
| | Fast or Intensely Burning Characteristics: | Not flammable |
| | Non-flammables that could Contribute Unusual Hazards to a Fire: | None known |
| | Release of Invisible Flammable Vapours and Gases: | Not flammable |
| | Decomposition Temperature: | Not determined (Typical values only - consult specification sheet) N Av = Not available, N App = Not applicable |

10. Stability and Reactivity

| | | |
|-------------|--|---|
| 10.1 | Chemical Stability: | This material is thermally stable when stored and used as directed. |
| 10.2 | Conditions to Avoid: | Elevated temperatures and sources of ignition |
| 10.3 | Incompatible Materials: | Oxidizing agents |
| 10.4 | Hazardous Decomposition Products: | Oxides of carbon and nitrogen, smoke and other toxic fumes. |
| 10.5 | Hazardous Reactions: | No known hazardous reactions. |

16. Other Information

This SDS contains only safety related information. For other information see product literature.

Dated: 15 January 2019. Version: 1

Every endeavor has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for particular uses is beyond our control. The information is not intended as an inducement to bargain and no warranty expressed or implied is made as to its accuracy, reliability or completeness. Sierra (Aust) Pty Ltd accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product is in compliance with appropriate Federal, State and Local Government regulations.