

# Safety Data Sheet

## BIOZYME

### Section 1. Product and Company Identification

**Product Name:** BIOZYME **Other Means of Identification:** Not applicable

**Product Use:** Biological/Enzyme Drain Maintainer **Restrictions On Use:** For industrial, institutional and professional use only

**Company:** GP Chemicals Specialty Ltd.. **Address:** 65 Beckett Avenue  
Holland Landing, ON L9N 1R8

**Telephone:** (905)731-3622 **Website:** www.gpchemicals.ca

**Emergency Telephone Number:** 1-888-CAN-UTEC (226-8832)

### Section 2. Hazards Identification

**GHS Classification:** Eye Irritant – Category 2B

**GHS Label Elements:**

**Hazard Pictograms:** None required

**Signal Word:** Warning

**Hazard Statements:** Causes eye irritation.

**Precautionary Statements**

**Prevention:** Wash hands thoroughly after handling.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

**Storage:** Not applicable.

**Disposal:** Not applicable.

**Other Hazards:** None known.

### Section 3. Composition / Information on Ingredients

**Pure Substance / Mixture:** Mixture

| <u>Chemical Name</u>      | <u>CAS#</u> | <u>Concentration (% by Weight)</u> |
|---------------------------|-------------|------------------------------------|
| Alcohols, C9, ethoxylated | 9002-92-0   | 5-10                               |

**Section 4. First Aid Measures**

**Eye Contact:** Immediately flush with plenty of cool running water. Get medical attention if irritation persists.  
**Skin Contact:** Rinse with plenty of running water. Get medical attention if irritation persists.  
**Ingestion:** Rinse mouth. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities have been swallowed, call a physician.  
**Inhalation:** Remove to fresh air and get medical attention if symptoms occur.

**Most Important Symptoms/Effects, Acute and Delayed**

**Potential Acute Health Effects**

**Eye Contact:** Causes eye irritation.  
**Skin Contact:** No known significant effects or critical hazards.  
**Ingestion:** No known significant effects or critical hazards.  
**Inhalation:** No known significant effects or critical hazards.

**Over-Exposure Signs/Symptoms**

**Eye Contact:** Redness / irritation.  
**Skin Contact:** No symptoms known or expected.  
**Ingestion:** No symptoms known or expected.  
**Inhalation:** No symptoms known or expected.

**Indication of [Immediate Medical Attention and Special Treatment Needed, if Necessary**

**Notes to Physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific Treatments:** No specific treatment.  
**First-Aider Protection:** No special precautions are necessary for first aid responders. No action shall be taken involving any personal risk without suitable training.

*See Toxicological Information (Section 11) for more detailed information on health effects and symptoms.*

**Section 5. Fire-Fighting Measures**

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
**Unsuitable Extinguishing Media:** None known.  
**Specific Hazards During Fire-fighting:** Not flammable or combustible. High heat or fire may cause container to melt or burst due to a pressure increase.  
**Hazardous Combustion Products:** Decomposition products may include carbon oxides, nitrogen oxides.  
**Fire-Fighter Special Protective Equipment:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  
**Fire-Fighter Special Precautions:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

**Section 6. Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures**

Refer to protective equipment and precautions listed in Sections 7 and 8.

**Methods and Materials for Containment and Cleaning Up**

- Small spill** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. See Section 13 for additional disposal information.

**Environmental Precautions**

Do not allow contact with soil, surface or ground water.

**Section 7. Handling and Storage**

**Precautions for Safe Handling**

- Protective Measures:** Put on appropriate personal protective equipment (see Section 8).
- Advice on Safe Handling:** Wash hands thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.
- Conditions for Safe Storage:** Keep out of reach of children. Keep container tightly closed. Store in suitably labelled original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.

**Section 8. Exposure Controls / Personal Protection**

**Components with Workplace Control Parameters**

Contains no substances with occupational exposure limit values.

**Appropriate Engineering Controls**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal Protective Equipment**

- Eye Protection:** No special protective equipment required under normal use conditions.
- Hand Protection:** No special protective equipment required under normal use conditions.
- Skin Protection:** No special protective equipment required under normal use conditions.
- Respiratory Protection:** No special protective equipment required under normal use conditions.
- Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. See Section 7.

**Section 9. Physical and Chemical Properties**

|   |  |
|---|--|
| <b>Appearance:</b>                              |  |
| <b>Physical State:</b>                          | Liquid   |
| <b>Colour :</b>                                 | Translucent white                                      |
| <b>Odour:</b>                                   | Floral   |
| <b>Odour Threshold:</b>                         | No data available                                      |
| <b>pH:</b>                                      | 7.5 – 8.5  |
| <b>Melting Point/Freezing Point :</b>           | No data available                                      |
| <b>Initial Boiling Point/Boiling Range:</b>     | >100°C   |
| <b>Flash Point (Closed Cup):</b>                | Not applicable. (Product does not sustain combustion.) |
| <b>Evaporation Rate:</b>                        | No data available                                      |
| <b>Flammability (Solid, Gas):</b>               | Not applicable (liquid)                                |
| <b>Upper Explosive (Flammable) Limit :</b>      | No data available                                      |
| <b>Lower Explosive (Flammable) Limit :</b>      | No data available                                      |
| <b>Vapour Pressure:</b>                         | No data available                                      |
| <b>Vapour Density:</b>                          | No data available                                      |
| <b>Relative Density:</b>                        | 1.01   |
| <b>Solubility:</b>                              | Soluble in water                                       |
| <b>Partition Coefficient (n-octanol/water):</b> | No data available                                      |
| <b>Auto-Ignition Temperature:</b>               | No data available                                      |
| <b>Decomposition Temperature:</b>               | No data available                                      |
| <b>Viscosity:</b>                               | <25 cps  |

**Section 10. Stability and Reactivity**

|  |   |
|--|---|
| <b>Reactivity:</b>                         | No specific test data related to reactivity available for this product or its ingredients   |
| <b>Chemical stability:</b>                 | Stable under normal conditions  |
| <b>Possibility of Hazardous Reactions:</b> | Under normal storage and use conditions, hazardous reactions will not occur   |
| <b>Conditions to Avoid:</b>                | None known  |
| <b>Incompatible Materials:</b>             | None known  |
| <b>Hazardous Decomposition Products:</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. Decomposition products during combustion may include carbon oxides, nitrogen oxides. |

**Section 11. Toxicological Information**

**Information on Likely Routes of Exposure:** Eye contact, Skin contact, Ingestion, Inhalation

**Potential Acute Health Effects**

|                      |   |
|----------------------|---|
| <b>Eye Contact:</b>  | Causes eye irritation.                            |
| <b>Skin Contact:</b> | No known significant effects or critical hazards. |
| <b>Ingestion:</b>    | No known significant effects or critical hazards. |
| <b>Inhalation:</b>   | No known significant effects or critical hazards. |

**Symptoms Related to the Physical, Chemical and Toxicological Characteristics**

|                      |                                |
|----------------------|--------------------------------|
| <b>Eye Contact:</b>  | Redness / irritation.          |
| <b>Skin Contact:</b> | No symptoms known or expected. |
| <b>Ingestion:</b>    | No symptoms known or expected. |
| <b>Inhalation:</b>   | No symptoms known or expected. |

**Delayed and Chronic Effects from Short and Long Term Exposure:** No known significant effects or critical hazards.

**Toxicity**

Product Acute Oral Toxicity Estimate: > 5,000 mg/kg  
 Product Acute Dermal Toxicity Estimate: > 5,000 mg/kg  
 Product Acute Inhalation Toxicity Estimate: No data available  
 Aspiration Toxicity: No data available  
 Respiratory or Skin Sensitization: No data available  
 Carcinogenicity: No known significant effects or critical hazards  
 Reproductive Toxicity: No known significant effects or critical hazards  
 Mutagenicity: No known significant effects or critical hazards  
 Teratogenicity: No known significant effects or critical hazards  
 Developmental Effects: No known significant effects or critical hazards  
 Specific Target Organ Toxicity (single exposure): No known significant effects or critical hazards  
 Specific Target Organ Toxicity (repeated exposure): No known significant effects or critical hazards

**Toxicity Data for Ingredients**

| <b>Ingredient</b>         | <b>Test</b>      | <b>Route</b> | <b>Result</b> | <b>Species</b> |
|---------------------------|------------------|--------------|---------------|----------------|
| Alcohols, C9, ethoxylated | LD <sub>50</sub> | Dermal       | 72000 mg/kg   | Rabbit         |
|                           | LD <sub>50</sub> | Oral         | 4150 mg/kg    | Rat            |
|                           | LD <sub>50</sub> | Oral         | 8600 mg/kg    | Rat            |

***Section 12. Ecological Information***

**Ecotoxicity**

| <b>Product/Ingredient Name</b> | <b>Result</b>                         | <b>Species</b>                   | <b>Exposure</b> |
|--------------------------------|---------------------------------------|----------------------------------|-----------------|
| Ethoxylated lauryl alcohol     | Acute LC50 10000 to 25000 µg/l        | Crustaceans – Sphaeroma serratum | 48 hours        |
|                                | Acute LC50 6460-7580 µg/l Fresh Water | Daphnia - Daphnia magna          | 48 hours        |
|                                | Acute LC50 1.4 mg/l                   | Fish                             | 96 hours        |
|                                | Acute LC50 1400 µg/l Fresh Water      | Fish - Cyprinus carpio           | 96 hours        |
|                                | Acute LC50 1500 µg/l Fresh Water      | Fish - Salmo salar               | 96 hours        |

**Persistence and Degradability**

| <b>Product/Ingredient Name</b> | <b>Aquatic Half-Life</b> | <b>Photolysis</b> | <b>Biodegradability</b> |
|--------------------------------|--------------------------|-------------------|-------------------------|
| Ethoxylated lauryl alcohol     | No data available        | No data available | Readily biodegradable   |

**Bioaccumulative Potential**

No data available

**Mobility in Soil**

No data available

**Other Adverse Effects**

No known significant effects or critical hazards

**Section 13. Disposal Considerations**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and any local, provincial/state and federal regulations. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Empty containers may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport Information**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land Transport (TDG)**

Not classified as dangerous goods

**Sea Transport (IMDG/IMO)**

Not classified as dangerous goods

**Section 15. Regulatory Information**

**Canadian Domestic Substances List (DSL)**

All components of this product are listed or exempted.

**United States TSCA Inventory**

All components of this product are listed or exempted.

|   |                  |                        |                            |                          |
|---|------------------|------------------------|----------------------------|--------------------------|
| <b>Hazardous Material Information System:</b> | <b>Health: 1</b> | <b>Flammability: 0</b> | <b>Physical Hazards: 0</b> |                          |
| <b>National Fire Protection Association:</b>  | <b>Health: 1</b> | <b>Flammability: 0</b> | <b>Instability: 0</b>      | <b>Special Hazard: -</b> |

**Section 16. Other Information**

**Prepared By:** Regulatory Affairs      **Telephone:** (416) 744-0040      **Date:** August 8, 2016

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate at the date of its publication. However, neither the above-named manufacturer or supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.