



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	BIO-ZYME II
Product number	201037
Company information	Brulin & Company, Inc. P.O. Box 270 Indianapolis, IN 46206 US www.Brulin.com
Emergency	CHEMTREC 1-800-424-9300
General information	Phone: 317-923-3211 Fax: 317-925-4596

2. Hazards Identification

Emergency overview	Health injuries are not known or expected under normal use. No hazards resulting from the material as supplied. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Potential health effects	
Eyes	Contact with eyes may cause irritation.
Skin	Health injuries are not known or expected under normal use. Prolonged and/or repeated skin contact may result in mild irritation or redness.
Inhalation	Health injuries are not known or expected under normal use.
Ingestion	Do not ingest. Harmful if swallowed.

3. Composition / Information on Ingredients

No hazardous ingredients.

Composition comments	No dangerous ingredients according to Directive 2001/58/EC The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.
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4. First Aid Measures

First aid procedures	
Eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develops or persists.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops or persists.
Ingestion	Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention.
Inhalation	Call a physician if symptoms develop or persist.
General advice	If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Extinguishing media	
Suitable extinguishing media	Small Fires: Dry chemical, CO2, water spray or regular foam. Large Fires: Water spray, fog or regular foam.

6. Accidental Release Measures

Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

BIO-ZYME II

Product number: 201037

Methods for cleaning up

Never return spills in original containers for re-use.

Large Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dike far ahead of liquid spill for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

7. Handling and Storage

Handling

Handle and open container with care.

Storage

Store in cool place. Keep in a well-ventilated place. Use care in handling/storage. Keep from freezing. Keep at temperatures between 4 and 49°C.

8. Exposure Controls / Personal Protection

Personal protective equipment

Eye / face protection

Avoid contact with eyes. Goggles.

Skin protection

Not normally needed. Wear impervious gloves for prolonged contact.

Respiratory protection

No personal respiratory protective equipment normally required.

General hygiene considerations

When using do not smoke. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.

9. Physical & Chemical Properties

Appearance

milky opaque

Color

White to off-white

Odor

light citrus

Odor threshold

Not available.

Form

Liquid.

pH

8.65

Freezing point

Not available.

Boiling point

Not available.

Flash point

> 212 °F (> 100 °C) Pensky-Martens Closed Cup

Evaporation rate

Not available.

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air, lower, % by volume

Not available.

Vapor density

Not available.

Specific gravity

1.006

Solubility (water)

100 %

VOC

0.1 %

Viscosity

water thin

10. Chemical Stability & Reactivity Information

Chemical stability

Stable at normal conditions.

Conditions to avoid

Direct sources of heat. Do not freeze.

Incompatible materials

None known.

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Possibility of hazardous reactions

Will not occur.

BIO-ZYME II

Product number: 201037

11. Toxicological Information

Further information This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns. This material is not expected to be harmful to aquatic life.

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

14. Transport Information

DOT

Not regulated as hazardous goods.

IATA

Not regulated as hazardous goods.

IMDG

Not regulated as hazardous goods.

ICAO

Not regulated as hazardous goods.

15. Regulatory Information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

BIO-ZYME II

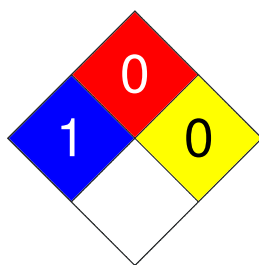
Product number: 201037

16. Other Information

HMIS rating

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	A

NFPA codes



Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

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