

SAFETY DATA SHEETS

This SDS packet was issued with item:

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N/A



M A T E R I A L S A F E T Y D A T A S H E E T

24-Hour Emergency #: (U.S.) 1-800-535-5053 / (Outside U.S.) 352-323-3500

SECTION I: Product & Company Identification

Product Name: **BiozymeLT™**
Catalog Number: **BLT900**
Distributed by: Biotrol
13705 Shoreline Court East
Earth City, MO 63045
1.800.822.8550

SECTION II: Health Hazard Information

Appearance: Clear deep blue liquid with mint odor.

Routes of Entry: Skin contact, eye contact, inhalation, ingestion

Symptoms of Exposure:

Skin Absorption: Prolonged or repeated contact may cause irritation

Eye Contact: Contact may cause mild irritation

Ingestion: May cause upset to mouth, throat, and GI tract

Inhalation: Spray mists or dusts from dried residues may result in respiratory irritation, coughing, and/or difficulty breathing

HMIS Rating: Health (1); Flammability (0); Reactivity (0); Protection (B)

SECTION III: Hazardous Components

| Component | CAS # | OSHA PEL | ACGIH TVL | % by Weight |
|-----------------------------------|-----------|-----------------------|-----------|-------------|
| Subtilisins (Proteolytic Enzymes) | 9014-01-1 | 0.06µg/m ³ | N/A | 0.1 – 1.0 |
| Sodium Xylene Sulfonate | 1300-72-7 | N/A | N/A | 1 – 5 |
| Tetrasodium EDTA | 64-02-8 | N/A | N/A | 1 – 5 |

SECTION IV: First Aid Procedures

Skin Contact: Flush with large amounts of water. Remove grossly contaminated clothing, including shoes. If irritation develops, seek medical attention immediately

Ingestion: Do not induce vomiting. Rinse mouth and throat thoroughly with tap water. Drink large amounts of water. Do not give anything by mouth to an unconscious or convulsing person. Seek medical attention immediately.

Inhalation: Remove the affected victim from exposure. Administer artificial respiration if breathing stopped. Seek medical attention immediately.

Eye Contact: Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

SECTION V: Fire Fighting Measures

| | |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Flash Point | Not Determined |
| Flammable Limits in Air % by Volume | Not Determined |
| Auto-Ignition Temperature | Not Determined |
| Special Fire-Fighting Procedures; Unusual Fire and Explosion Hazards | Prevent human exposure to fire, fumes, smoke, and vapors. Evacuate non-essential personnel. Use extinguishing media suitable for surrounding fire. |

SECTION VI: Accidental Release Measures

In case of spill: Absorb spill with an absorbent material and place in a container for disposal. Wash the contaminated area with water.

SECTION VII: Handling and Storage

Wash hand thoroughly after use. Store in a cool, dry, well-ventilated place away from incompatible materials. Avoid long-term exposure to heat and humidity. Containers, even those that have been emptied, will retain product residue.

SECTION VIII: Personal Protection

Protective Wear: Goggles or safety glasses with side shields. Use nitrile or other protective chemical resistant gloves where contact may occur. Where contact may occur, wear protective clothing and/or chemical resistant apron. An eyewash station should be nearby and ready for use.

Ventilation: General room ventilation

Respiratory Protection: Use NIOSH approved respiratory if necessary

SECTION IX: Physical and Chemical Properties

| | |
|-------------------------------|-----------------------------------|
| Boiling Point | Not Determined |
| Solubility in Water | Complete |
| Specific Gravity | 1.078 |
| Vapor Pressure/Density | Not Determined |
| Evaporation Rate | Not Determined |
| Freezing Point | Not Determined |
| Appearance and Odor | Clear deep blue liquid, mint odor |
| pH | 7.5 |

SECTION X: Stability and Reactivity

| | |
|-----------------------------------------|------------------------------------------------|
| Stability | Stable |
| Hazardous Polymerization | Will not occur |
| Hazardous Decomposition Products | CO and CO ₂ |
| Conditions/Materials to Avoid | Heat and light, bleaching agents and oxidizers |

SECTION XI: Toxicological Information

Carcinogenicity: NTP: N/A **IARC Monographs:** N/A **OSHA Regulated:** N/A

Long term exposure: Repeat inhalation of subtilisin (dust) may result in allergic sensitization

SECTION XII: Ecological Information

N/A

SECTION XIII: Disposal Considerations

Waste solutions may be sewerred with copious amounts of water, if in accordance with state, local, and federal regulations. For additional guidance, contact the State Water Board or the Regional Office of the EPA.

SECTION XIV: Transport Information

DOT Regulations (Ground): Not regulated

IATA Regulations (Air): Not regulated

IMDG Regulations (Vessel): Not regulated

Proper Shipping Name: N/A

Hazard Class Number and Description: N/A

UN/NA Number: N/A

Packaging Group: N/A

SECTION XV: Regulatory Information

USA State Regulations: May contain trace levels of ethylene oxide, 1,4-dioxane and propylene oxide

WHMIS Classifications: D2 – Materials Causing Other Toxic Effects (Irritant)

SECTION XVI: Other Information

Read and observe all labeled precautions. Use as directed.

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Biotrol makes no recommendation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for particular purpose.

NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR TO THE PRODUCT TO WHICH THE INFORMATION REFERS.

BIOTROL™

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SECTION 1 – IDENTIFICATION

Product Identifier

Product Name: BiozymeLT™

Product Code: BLT900, BLT900cs

Recommended Use of the Chemical and Restrictions for Use

Recommended Use: Detergent

Restrictions for Use: Use only as directed.

Details of the Supplier

Manufactured for: Biotrol
13705 Shoreline Court East
Earth City, MO 63045
1.800.325.1881

Emergency Phone Number

24-Hour Number: (U.S.) 1-800-535-5053

International: 352-323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Classification

| Hazard Class | Category |
|---------------------------|----------|
| Respiratory sensitization | 1 |

Label Elements

Hazard Symbols(s):



Signal Word(s): Danger

Hazard Statement(s): May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statement(s): Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

5% of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Wt % |
|-----------------------------------|------------|-------|
| Glycerin | 56-81-5 | 5-10 |
| Subtilisins (proteolytic enzymes) | 9014-01-1 | 0.1-1 |

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4 – FIRST AID MEASURES

First Aid Measures

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Eye Contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

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Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Skin: If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.

Most Important Symptoms and Effects (Acute and Delayed)

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory tract irritation.

Eye Contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Skin: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physician: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Suitable: Treat for surrounding material.

Unsuitable: None known.

Specific Hazards Arising from Chemical

Products of combustion include but are not limited to: oxides of carbon.

Protective Equipment and Precautions for Firefighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Use personal protection recommended in Section 8. Isolate hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: See Section 12 for ecological information.

Methods and Material for Containment and Cleaning Up

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Scoop up material and place in a disposal container. Provide ventilation.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep out of the reach of children. Keep container tightly closed.

Incompatible Materials: None known.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines:

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-----------------------------------------------|---------------------------|---------------------|---------------|
| Glycerin (56-81-5) | Not available | 5 mg/m ³ | Not available |
| Subtilisins (proteolytic enzymes) (9014-01-1) | 0.00006 mg/m ³ | Not available | Not available |

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Appropriate Engineering Controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Individual Protection Measures

Respiratory Protection: None required under normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin and Body Protection: Wear suitable protective clothing.

Eye/Face Protection: Safety glasses or goggles are recommended when using this product.

General Work/Hygienic Practices: Handle in accordance with good industrial hygiene and safety practice. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid

Odor: Spearmint

Odor threshold: Not determined

pH: 8.7

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: Not determined

Evaporation rate: Not determined

Flammability (solid, gas): Not flammable

Upper/lower flammability or explosive limits: Not determined

Vapor pressure: Not determined

Vapor density: Not determined

Relative density: 1.11

Solubility(ies): Water

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None under normal use.

Conditions to avoid: None known.

Incompatible materials: None known.

Hazardous decomposition products: May include and are not limited to: oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Likely Routes of Exposure: Inhalation, skin contact, eye contact, ingestion

Information Related to Physical, Chemical, and Toxicological Effects

See section 4 of this SDS.

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Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: NTP: No IARC: No OSHA: No

Numerical Measures of Toxicity

| Product | |
|------------------|---------------------|
| ATE (oral) | >2000 mg/kg, rat |
| ATE (dermal) | >2000 mg/kg, rabbit |
| ATE (inhalation) | >20 mg/l/4h |

Component Information:

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------------------------|-------------------|------------------|-----------------|
| Glycerin (56-81-5) | 12600 mg/kg (rat) | >10g/kg (rabbit) | Not available |
| Subtilisins (proteolytic enzymes) (9014-01-1) | 1800 mg/kg (rat) | Not available | Not available |

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not established

Persistence and degradability: Not established

Bioaccumulative potential: Not established

Mobility in soil: No additional information available

Other adverse effects: No additional information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

See section 8 of this SDS for exposure controls and personal protection.

Dispose of the product and container in accordance with all applicable local, state, and federal regulations.

SECTION 14 – TRANSPORT INFORMATION

Note: Classification changes based on quantity, packaging, and method of shipment. See current shipping paper for most up to date shipping information.

DOT (Ground): Not Regulated

IATA (Air): Not Regulated

IMDG (Vessel): Not Regulated

SECTION 15 – REGULATORY INFORMATION

All ingredients in this product are listed or are excluded from listing on the US Toxic Substances Act (TSCA) Chemical Substance Inventory.

SECTION 16 – OTHER INFORMATION

Issue Date: 23 February 2015

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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 given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet