

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: Bactozol™ Enzyme Solution

Cat. No: BZ 160

Molecular Research Center, Inc.
5645 Montgomery Rd.
Cincinnati, Ohio 45212
1-888-841-0900

Product Name: Bactozol Enzyme Solution (Enzymatic bacterial lysing solution and dilution buffer).

Chemical Formula: A formulation.

Molecular Weight: A formulation.

NFPA RATINGS: (scale=0-4) Health=2 Fire=0 Reactivity=0
HMIS RATINGS: (scale=0-4) Health=2 Fire=0 Reactivity=0 PPE=C

CHEMTREC EMERGENCY NUMBER: Only in the event of an emergency involving a spill, leak, fire exposure or accident. USA: 1-800-424-9300; International: 1-703-527-3887

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS No	Percent
Bactozol Enzyme Solution	N/A	Proprietary formulation

3. HEALTH HAZARD IDENTIFICATION

Irritant. Irritating to skin, eyes, mucus membranes and upper respiratory tract. Avoid contact, ingestion and inhalation.

ACUTE EFFECTS

EYE EXPOSURE: May cause reddening and irritation of the eye.

SKIN EXPOSURE: May cause irritation or reddening.

INHALATION: May cause irritation of the throat, coughing and respiratory tract irritation.

INGESTION: May be harmful if swallowed.

4. FIRST AID

FIRST AID FOR EYES: Check for and remove contact lenses. Flush with water in an eyewash for at least 15 minutes, holding eyelids open. Do not use eye ointment. Obtain medical attention if discomfort or medical symptoms persist.

FIRST AID FOR SKIN: Remove contaminated clothing. Flush area with water for 10-15 min. Decontaminate body surface with running water and nonabrasive soap. Obtain medical attention if discomfort or symptoms persist.

FIRST AID FOR INHALATION: Remove person to fresh air. Monitor for respiratory distress and start artificial respiration, if needed. Obtain medical attention if discomfort or symptoms persist.

FIRST AID FOR INGESTION: Remove dentures, if any. Have conscious person drink several glasses of water or milk. Induce vomiting by sticking finger in throat. Lower head so vomit will not reenter the mouth or throat. Never give an unconscious person anything to ingest. Obtain medical attention.

5. FIRE AND EXPLOSION HAZARD DATA

Flammable Properties: Flash Point and Ignition Temperature are not available.

EXTINGUISHING MEDIA: Use water spray, CO₂, dry chemical powder, alcohol or polymer foam.

FIREFIGHTING PROCEDURES: Wear positive pressure, self-contained breathing apparatus and protective clothing. Prevent contact with skin and eyes. May emit toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT FOR SPILL CONDITIONS: Use gloves or other impermeable clothing to avoid skin contact. Use chemical goggles, face shield, or other appropriate eye protection.

SPILL AND LEAK RESPONSE: Wear personal protective equipment as required. Absorb liquid with polypads or other appropriate material. Wash spill site after material pickup is complete. Place spill residue in sealed bag and hold for waste disposal.

7. HANDLING AND STORAGE

IRRITANT: Keep container tightly closed and refrigerate or freeze enzyme solution for long-term storage. Avoid repetitive freeze-thaw cycles and contact with acids. Avoid skin contact and inhalation. Wear eye protection and gloves when handling. Keep container tightly sealed to minimize evaporation. Avoid eating and smoking in work areas.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

GENERAL PROTECTION AND PRECAUTIONS: Ensure availability of eye wash station before using.

ROUTINE OPERATIONS: For routine use, latex gloves, chemical safety goggles, and lab coat are considered the minimum body protection. Avoid generation of aerosols. Wash hands before breaks and at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: Clear, viscous liquid with no odor.
Specific gravity: >1

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal temperature and pressure.

INCOMPATIBILITIES: Strong oxidizing agents and strong bases. Avoid heat and flames.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Carbon, nitrogen and sulfur oxides.

11. TOXICOLOGICAL INFORMATION

May be harmful by inhalation, ingestion or skin absorption. Causes eye and skin irritation. Material is an irritant to mucous membranes and upper respiratory tract. Only selected data is presented here. To the best of our knowledge, all the properties of this formulation have not been investigated thoroughly.

12. ECOLOGICAL INFORMATION

Data not available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL BY INCINERATION: Keep in sealed containers between use and final disposal. May be incinerated in a hazardous waste incinerator equipped with afterburner and scrubber. Waste disposal activities are subject to federal, state and local laws and regulations.

DISPOSAL IN WASTE WATER: Low concentrations are expected to degrade in biological wastewater treatment facilities.

14. TRANSPORT INFORMATION

DOT: This material is not a hazardous material as defined by 49CFR 172.101 by the U.S. DOT.

IATA: Non-hazardous for air transport.

15. REGULATORY INFORMATION

OSHA Hazards: Irritant

16. OTHER INFORMATION

Reviewed by	BW, MJ
Created date	11/01/99
Revision date	1/01/09

This information is believed to be accurate and represents the information currently available to us. However, we make no warranty expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Abbreviations:

N/A Not Applicable