



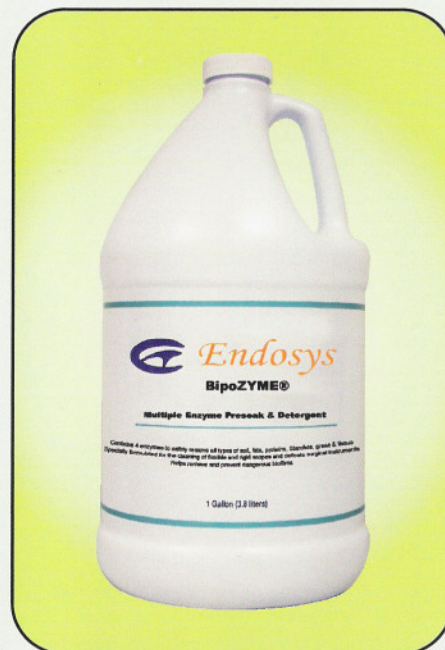
BipoZYME

Multiple Enzyme Presoak
and Detergent

Product Description

- Endosys BipoZYME Multiple Enzyme Detergent is designed to provide one- step cleaning of delicate fiber-optic equipment, such as endoscopes and cystoscopes, as well as other surgical instruments, including those used for orthopedic, bariatric, cardiovascular and general surgery.
- BipoZYME is designed to be used on instrumentation immediately following the surgical procedure to break down soils associated with blood, fats and bone.
- Multiple Enzyme Detergent minimizes instrument handling, thus reducing exposure to most organic contaminants. It ensures the thorough and complete cleaning of equipment and instruments, a prerequisite to the completion of the decontamination process.
- BipoZYME is a liquid enzymatic detergent, and hence disperses instantly and completely without mixing. It is easy to use and dissolves much more quickly than powders.
- BipoZYME Multiple Enzyme Detergent contains four enzymes-one that breaks down proteins, a second that breaks down carbohydrates, the third breaks down lipids or fats, and the fourth targets cellulose fibers.
- BipoZYME can be used as a manual cleaner, in ultrasonic washers or in other automated washing equipment.
- The four types of enzymes namely, Protease, Amylase, Cellulase and Lipase break down (actually digest) the organic soils and the detergent action removes them completely, holding them in suspension, thus avoiding the re-depositing of soil on the cleaned surfaces

The enzymes contained in the Multiple Enzyme Detergent have been proven to remove dangerous biofilms, and when used regularly it keep them from occurring in the first place. This is very important when processing laparoscopic and endoscopic equipment in order to help prevent cross contamination.



Product Features Consumer Benefits

Multiple enzyme detergent	Disintegrates organic soils and bio-films
Highly concentrated (1/8 – 2oz per gallon of water)	Low cost per use
pH near neutral	Safe on instruments
Biodegradable, no phosphates, no chlorides	Nonpolluting, ecologically minded
Quad-action presoak and detergent	Saves time and labor, COMPLETE CLEANING
Bacteriostatic	Shelf stable
Contains 4 types of enzymes	Effective on proteins, carbohydrates, lipids, and cellulose soils

Product Application

- ✓ Presoaking
- ✓ Manual washing
- ✓ Automatic washer
- ✓ Ultrasonic

Can be used in both cold and warm water

Directions of Use:

MANUAL CLEANING

1. Immerse soiled instruments in a basin containing a solution of 8-16 ml/L of water.
2. Amount of product used will vary depending on severity of soil conditions. BipoZYME can be used in cold and warm water. This product is most effective between the temperatures of 38°C-60°C. Use a soak time of 1-10 minutes. Lower water temperatures will require longer soak times.
3. After soaking, thoroughly rinse and transfer to manual, ultrasonic or washer/disinfector cleaning operation. Discard used solutions daily or when visibly soiled.

AUTOMATIC CLEANING

1. Use 2-16 ml/L of water in prewash cycle of washing equipment. Amount of product used will vary depending on severity of soil conditions and wash equipment cycle parameters.

Consult your service representative for appropriate chemical concentration and machine cycle information.

Physical and chemical properties

Clear, purple, thin liquid
Complete solubility in water
pH value: 6.0-8.0

Chemical Name C .A.S. Number

Protease #9014-01-0, Amylase #9000-90-2, Cellulase #9012-54-8, Lipase #9001-62-1, Surfactant, Propylene Glyco#57-55-6 and Water #7732-18-5

FREEZE/THAW

Product is freeze/thaw stable. If frozen, return to room temperature. If any clouding appears, agitate container to stir product to produce clarity.

Purifying Lives...

MATERIAL SAFETY DATA SHEET

UPDATED: OCTOBER 14, 2008

Comply with OSHA'S Hazard Communication Standard, 29 CFR 1910.1200.

HMIS RATING: HEALTH = 2 FLAMMABILITY = 0 REACTIVITY = 0 PROTECTION = B

NFPA RATING: HEALTH = 2 FLAMMABILITY = 1 REACTIVITY = 0

IDENTITY - As used on Label and List

BipoZYME MULTIPLE ENZYME DETERGENT

SECTION I - Contact Information

PRODUCT NAME: BipoZYME CHEMICAL FAMILY: Detergent

GENERIC NAME: Enzyme Detergent FORMULA: Proprietary Mixture

DISTRIBUTORS NAME: Endosys INDIA. DISTRIBUTORS ADDRESS: 572 Kaveri Complex, 96 MG Road, Nungambakkam Chennai: 600034

EMERGENCY PHONE NUMBER IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE OR ACCIDENT: CHEMTREC 800-424-9300

PROPER SHIPPING DESCRIPTION: Cleaning Compound, Not Regulated LABEL: None

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components % (optional)

Specific Chemical Identity; CAS Number

Protease; #9014-01-1 <5

Alpha-Amylase; #9000-90-2 <5

Lipase; #9001-62-1 <5

Cellulase; #9012-54-8 <5

Salts; Trade Secret <5

Nonionic surfactant; Trade Secret <5

Amphoteric Surfactant; Trade Secret <5

Borax; 1303-96-4 <10

Aliphatic Dihydric Alcohol; Trade Secret <30

Water; 7732-18-5 <50

DOT: Non-Hazardous

All ingredients in this product are on the TSCA list.

This product does not contain an amount of any chemical required to be reported under SARA 313.

SECTION III - Physical/Chemical Characteristics

Boiling Point: Approximately 220oF Specific Gravity (H2O = 1): 1.1

Vapor Pressure (mm Hg.): N/D Melting Point: N/A

Vapor Density (AIR = 1): N/D Evaporation Rate (Butyl Acetate = 1): N/D

Solubility in Water: Complete pH: 8.5-9.0

Appearance and Odor: Clear blue liquid with fresh fragrance.

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used): N/A

Flammable Limits: LEL: N/D UEL: N/D

Extinguishing Media: Dry chemical, carbon dioxide, water fog, and/or foam.

Special Fire Fighting Procedures: None.

Unusual Fire and Explosion Hazards: None.

SECTION V - Reactivity Data

Stability: Stable.

Incompatibility (Materials to Avoid): Strong oxidizing agents.

Hazardous Decomposition or By-products: May include and are not limited to oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None.

PRODUCT CODE: 43-21600

SECTION VI - Health Hazard Data

Route(s) of Entry:

Inhalation: No Skin: Yes Ingestion: Yes

Health Hazards (Acute and Chronic):

Inhalation: None expected under normal use conditions.

Eyes: May cause irritation.

Skin: Prolonged or repeated contact may cause irritation.

Ingestion: May cause irritation to mouth and throat.

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

Signs and Symptoms of Exposure:

Inhalation: None expected under normal use conditions.

Eyes: Irritation, redness, and/or blurred vision.

Skin: Irritation and/or redness.

Ingestion: Nausea.

Medical Conditions Generally Aggravated by Exposure: Preexisting skin conditions may be aggravated by exposure to this product.

Emergency and First Aid Procedures:

Inhalation: Remove to fresh air. If person is having difficulty breathing, give oxygen and call a physician immediately.

Eyes: Rinse with water for at least 15 minutes. If irritation persists, seek medical attention immediately.

Skin: Wash with water. If irritation persists, seek medical attention.

Ingestion: Rinse mouth and throat with water. Drink a quart of water. Call a physician immediately. Never give anything to an unconscious person.

SECTION VII - Precautions for Safe Handling and Uses

Contain spill area, rinse with water, and dispose of properly.

Waste Disposal Method: Dispose in accordance with all applicable local, state, and federal regulations.

Precautions to Be Taken in Handling and Storing: Keep in cool place. Keep out of reach of children. Avoid inappropriate handling that may result in mist generation.

Other Precautions: Avoid exposure to heat.

SECTION VIII - Control Measures

Respiratory Protection (Specific Type): None.

Ventilation: General ventilation normally adequate.

Protective Gloves: Vinyl or latex recommended.

Eye Protection: Safety glasses recommended.

Other Protective Clothing or Equipment: None.

Work/Hygienic Practices: None.

Note: N/A or N/D as an information entry means the data is not applicable or determined, respectively.

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ORDER INFORMATION

43-21600

43-21601

43-21603

BipoZYME-500 ml

BipoZYME-1 gallon

BipoZYME-4x1 gallon

Endosys

BipoZYME®

Enzyme Presoak & Detergent



Endosys

For more information, contact your Endosys sales representative

ENDOSYS TECHNOLOGIES

www.endosys.org

For product information call : 91-9381712055

1 Gallon (3.8 liters)