



MATERIAL SAFETY DATA SHEET

Revised/ Reviewed: September 14, 2004

EZ-Zyme® Enzymatic Cleaner REF 3-750 and 3-755

A phosphate-free, neutral pH, multiple enzymes formula used for ultrasonic cleaning and soaking of surgical and dental instruments.

Section 1- Product and Company Information

Manufacturer: Miltex, Inc; 589 Davies Drive, York, PA 17402

Information: 717-840-9335, 717-840-9347 (fax)

Chemical Name & Synonyms: --

Chemical Formula: --

Section 2 – Composition/ Information on Ingredients

Subtilisins (proteolytic enzyme); CAS 9014-01-1; <5-percent; OSHA PEL (TWA) = N/A, ACGIH (TLV) = 0.06 ppb.

All other components are not considered hazardous according to the U.S. Federal Hazard Communication Standard (29 CFR 1910.1200).

Section 3 - Health Identification

Primary Route(s) of Entry: Inhalation, skin, and ingestion.

Health Hazards (Acute and Chronic): Not expected to be toxic via inhalation, skin, or ingestion. Repeated inhalation of enzyme spray or mist may cause allergic reaction in susceptible individuals. The product can be an eye and skin irritant in concentrate form. Do not inhale vapors or ingest.

Carcinogen: No known carcinogenic effects.

Signs and Symptoms of Exposure: Dermatitis, irritation and reddening of the eyes, asthma like symptoms from inhalation, and may cause mild nausea or diarrhea if ingested.

Medical Conditions Aggravated by Exposure: Asthma and dermatitis.

Section 4 - First Aid Measures

Eyes: Flush with tepid water for at least 15 minutes. Treat as any mild irritant. As needed, seek medical attention.

Skin: Wash affected area with copious of water. Treat as any mild irritant.

Ingestion: *Do not* induce vomiting. As needed, seek medical attention.

Inhalation: Remove person to fresh air. As needed, seek medical attention.

Section 5 – Fire Fighting Measures

The Product is non-flammable.

Section 6 - Physical and Chemical Properties

Physical State: Liquid at ambient temperature.

Appearance and Odor: Brown, clear liquid with a characteristic odor.

Boiling Point (°C): 100

Specific Gravity (H₂O=1): 1.00 – 1.08

Vapor Pressure (mm Hg): As water

Vapor Density (Air=1): 1

Evaporation Rate (butyl acetate=1): As water

Solubility in Water: Infinite

pH: 4.2 to 5.2

Section 7 – Stability and Reactivity

Stability: Stable

Conditions to Avoid: None known.

Incompatibility/ Materials to Avoid: Oxidizing and reducing agents

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: None known.

Section 8 – Accidental Release, Disposal, and Ecological Information

Spill Response: Flush to sewage or any disposal system.

Waste Disposal Method: Dispose of in accordance with all applicable federal, state, and local regulations. Generally, the material can be flushed to any disposal system.

Ecological, General: This material is not expected to be harmful to the environment.

Section 9 – Exposure Controls/ Personal Protection

Eye Protection: Goggles or lab safety glasses are recommended when working with concentrate.

Respiratory Protection: NIOSH-approved mask if mist likely.

Ventilation Recommendations: Normal

Skin Protection: Impervious gloves are recommended when working with concentrate.

Other: Apron

Section 10 – Storage and Handling

Storage: Enzymatic activity may be lost if temperature exceeds 130°F (55°C) or if pH exposure is below 2.5 or above 9.5.

Handling: Observe general good housekeeping practices

Section 11 – Miscellaneous

Toxicological Information: --

Transportation Information: Not a DOT hazardous material.

Other: --

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