

H101404; H47006

#470

# MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 0 Flammability = 0 Reactivity = 0

HMIS RATING: Health = 0 Flammability = 0 Reactivity = 0

## SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0732A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: LIQUID ENZYME II

Address: 302 North Fourth Street

Date Prepared: December 17, 2008 (version 2)

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)

<http://www.hillyard.com>

## SECTION II -- INGREDIENTS/IDENTITY INFORMATION

### Components

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
*Mixture of Bacterial Spores	68920-42-3	not established	not established	N/A	---

## SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 207°F Specific Gravity (H<sub>2</sub>O = 1): 25°C = 0.99 & 39°C = 0.99  
Vapor Pressure (mm Hg.): 17.8 Percent Volatile by Volume (%): 99.8%  
Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): slower than 1  
Solubility in Water: complete Appearance and Odor: Milky white emulsion, floral/mint odor  
pH (concentrate) = 6.5-7.5

## SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None to Boiling (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A

Extinguishing Media: N/A

Special Fire Fighting Procedures: None known to manufacturer.

Unusual Fire and Explosion Hazards: None known to manufacturer.

## SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: Excessive hot or cold temperatures may kill microorganisms.

Incompatibility (Materials to Avoid): Strong acids, alkalis or disinfectants may kill these microorganisms.

Hazardous Decomposition Products or Byproducts: None known to manufacturer.

Hazardous Polymerization: Will not occur. Conditions to Avoid: None known to Hillyard.

## SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? no Skin? no Ingestion? no

### HEALTH HAZARDS (1. Acute and 2. Chronic)

1. According to Primary Skin Irritation Test (FHSA), product concentrate is not an irritant; prolonged exposure may produce slight irritation in sensitive individuals; Eye Irritation Test (FHSA) = not irritant. When tested as specified this product was not considered to be a UN/DOT corrosive at 4 hours.

2. No data is available at this time.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.