

MATERIAL SAFETY DATA SHEET

LABORATORIES

320 37th Avenue • St. Charles, Illinois 60174 • To Reorder, Call 800-323-2594

PRODUCT IDENTIFICATION
UNITED 455

LIQUI-ZYME and SUNSHINE LIQUI-ZYME

USE / DESCRIPTION Odor Eliminator REVISION DATE June 26, 2003

REACTIVITY (0 = Maximum Safety)

FOR MEDICAL AND TRANSPORTATION EMERGENCIES: INFOTRAC: 800-535-5053

HEALTH (0 = Maximum Safety)

See Health Hazard Data Section of this M.S.D.S.

Always follow Label Directions and Cautions.

4 Extreme. 3 High. 2 Moderate. 1 Slight.

0 Minimal

0

N

Susceptible to Release of Energy.

4 May detonate-vacate area if

2

Materials are exposed to fire.

Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.

2 Violent chemical change possible-use hose stream from distance

Unstable if heated-use precaution.

Normally stable.

FLAMMABILITY (0 = Maximum Safety) Susceptibility of Material to Burning.

Extremely flammable.

- 1 Must be preheated to burn.
- 3 Ignites at normal temperature. 0
 - Will not burn.
- Ignites when moderately heated.

for more detailed information.

PERSONAL PROTECTION



HAZARDOUS COMPONENTS IDENTITY, EXPOSURE LIMITS AND S.A.R.A. TITLE III INFORMATION

HAZARDOUS CAS ACGIH ACGIH OSHA OTHER S.A.R.A. TITLE III
COMPONENTS NUMBER TWA STEL PEL RECOMMENDED LIMITS QUANTITIES

In accordance with Federal Regulation 29 CFR 1910.1200, all materials in this product are considered non-hazardous.

This product does not contain materials reportable under SARA Title III Section 313.

This product does not contain materials regulated by California's Proposition 65.

This product is not controlled under Canada's WHMIS.

PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT SPECIFIC GRAVITY (H20 = 1) 212° F 0.990 VAPOR PRESSURE (mm Hg.) **MELTING POINT** (At 77° F.) Approximately 17.5 mmHg Not determined VAPOR DENSITY (Air = 1) **EVAPORATION RATE** Not determined (Water = 1)Approximately 1.0 **SOLUBILITY IN WATER VOLATILE ORGANIC COMPOUNDS (V.O.C.)** (Pounds Per Gallon Of Product) None 100% soluble

APPEARANCE AND ODOR LIQUI-ZYME: Light green color with strong cimarron (cinnamon-like) scent. pH: and 455 SUNSHINE LIQUI-ZYME: Dark orange liquid with light fresh botanical scent. pH: 7 - 8

FIRE AND EXPLOSION HAZARD DATA

 FLASH POINT (Method Used)
 FLAMMABLE LIMITS
 LEL
 UEL

 None (Tag Closed Cup)
 None
 None

EXTINGUISHING MEDIA

Dry chemical, dry foam, carbon dioxide, or water may be used.

SPECIAL FIRE FIGHTING PROCEDURES

Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS

None known

REACTIVITY DATA STABLE X CONDITIONS TO AVOID STABILITY: UNSTABLE | **INCOMPATIBILITY (Materials To Avoid)** Strong oxidizing agents HAZARDOUS DECOMPOSITION OR BYPRODUCTS When heated strongly, as in a fire, this product may produce, nitrous oxides and ammoniacal vapors HAZARDOUS POLYMERIZATION: WILL NOT OCCUR X CONDITIONS TO AVOID MAY OCCUR None known **HEALTH HAZARD DATA HEALTH HAZARDS** EYES: May cause irritation. SKIN: Prolonged or repeated contact may cause irritation. INHALATION: Mists of this product may irritate nasal passages. IF SWALLOWED: Swallowing large amounts (more than a few ounces) may cause nausea, upset stomach and vomiting. CARCINOGENICITY: NTP? No No OSHA REGULATED? IARC MONOGRAPHS? This product contains a chemical known to the state of California to cause cancer or reproductive toxicity? No SIGNS AND SYMPTOMS OF OVEREXPOSURE EYES AND SKIN: May cause irritation or rash after prolonged contact. INHALATION: Coughing and irritation of nasal passages. IF SWALLOWED: Nausea, upset stomach and vomiting. TARGET ORGANS: Eves MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE Pre-existing skin disorders and acute or chronic asthma. **EMERGENCY AND FIRST AID PROCEDURES** EYES: Flush with tepid water for at least 15 minutes and call a physician or control poison center. SKIN: Wash with soap and water. If irritation persists, call a physician or poison control center. IF MIST IS INHALED: Remove patient to fresh air. If irritation persists call a physician or poison control center. IF SWALLOWED: Induce vomiting only under the direction of a physician. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. PRECAUTIONS FOR SAFE HANDLING AND USE STEPS TO BE TAKEN IN CASE MATERIAL IS BELEASED OR SPILLED If this material is released or spilled, flush it with water to the nearest sewer to drain. This product, when spilled on the floor, may also cause slippery conditions. Remove with a wet vac or scrub area with scrubber or floor machine if available. WASTE DISPOSAL METHOD Consult your local, state and federal officials for proper disposal guidelines. Small amounts (several gallons) may usually be poured down sanitary sewers. This is a non-toxic, biodegradable material. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Keep this product in a properly labeled, tightly closed container. Do not allow this product to freeze. Keep out of reach of children. CONTROL MEASURES FOR USE WHERE SIGNIFICANT EYE, SKIN OR INHALATION EXPOSURE IS LIKELY RESPIRATORY PROTECTION (Specify Type) Not normally required **VENTILATION:** MECHANICAL (General) LOCAL EXHAUST Not normally required Normal ventilation is usually adequate EYE PROTECTION PROTECTIVE GLOVES Recommended only for prolonged or repeated exposure to the concentrated product. Safety glasses are suggested when handling the concentrated product. OTHER PROTECTIVE CLOTHING OR EQUIPMENT Shirts with long sleeves are recommended. Remove contaminated clothing; wash thoroughly with soap and water before reusing. Wash hands and face with soap and water after using this product.