

MATERIAL SAFETY DATA SHEET

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EMERGENCY NO. 1-800-535-5053 (INFOTRAC)

SECTION 1. IDENTIFICATION OF PRODUCT

PRODUCT NAME: LIQUILIVE BACTERIA DRAINZYME

Date Issued: 13/03/99

Supersedes: 03/20/97

Unisource Item #: U17706, U17707, U17708, U17709, U17710

SECTION 2. INGREDIENTS

INGREDIENTS	CAS NUMBER	PERCENT	EXPOSURE LIMITS IN AIR	
			OSHA PEL	ACGIH TLV
VIBABLE BACTERIA CULTURE	NONE	17-19	N/D	N/D
SODIUM HYDROXIDE	1310-73-2	LT 1	2 MG/M3	2 MG/M3

* THIS (THESE) MATERIAL(S) ARE SUBJECT TO THE REPORTING REQUIREMENTS UNDER SARA TITLE II, SECTION 313 AND 40 CFR PART 372.
N/D = NOT DETERMINED N/E = NOT ESTABLISHED N/A = NOT APPLICABLE

SECTION 3. PHYSICAL DATA

BOILING POINT (F): APPROX. 212
SPECIFIC GRAVITY (CONCENTRATE)(WATER=1):
VAPOR PRESSURE (PSIG): N/E
GALLON WEIGHT: 8.365 LBS.
VAPOR DENSITY (AIR=1): N/E
EVAPORATION RATE (WATER=1): N/D
SOLUBILITY IN WATER: SOLUBLE
PERCENT SOLIDS (1 HR. @ 110 C)(BY VOLUME): 2-3
PH RANGE: 7.0-9.5
VISCOSITY BROOKFIELD SPIN. #3 @ 3 RPM: N/D
APPEARANCE/ODOR: MILKY WHITE LIQUID; SWEET SCENT.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

STABILITY:
FLASH POINT: N/D FLAMMABILITY: NON-FLAMMABLE
AUTO-IGNITION TEMP.: N/D FLAMMABLE LIMITS: LEL = N/A UEL = N/A
EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM, WATER FOG.
SPECIAL FIRE FIGHTING PROCEDURES: NORMAL FIRE FIGHTING PROCEDURES MAY BE USED. COOL AND USE CAUTION WHEN APPROACHING OR HANDLING FIRE-EXPOSED CONTAINERS. USE WATER SPRAY TO COOL CONTAINERS.
UNUSUAL FIRE & EXPLOSION HAZARDS: CONTAINERS MAY BURST IN HEAT.

SECTION 5. REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: FREEZING, EXCESSIVE HEAT.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
MATERIALS TO AVOID: DO NOT MIX WITH OTHER CHEMICALS.
HAZARDOUS DECOMPOSITION PRODUCTS: MAY CONSIST OF CO, CO2, AND ORGANIC VAPORS OF UNKNOWN COMPOSITION.

SECTION 6. SPILL, LEAK AND DISPOSAL PROCEDURES

SMALL SPILLS: DILUTE WITH WATER AND PICK UP WITH MOP AND PAIL OR WET PICK UP VACUUM.
LARGE SPILLS: DIKE AREA TO CONTAIN SPILL. CLEAN UP USING ABSORBENT MATERIAL. PLACE ALL CONTAMINATED MATERIAL IN A CLOSED CONTAINER FOR DISPOSAL.
DISPOSAL: DILUTED PRODUCT MAY BE FLUSHED TO SEWER. UNDILUTED (LIQUID CONCENTRATE) PRODUCT RECOVERED FROM SPILLS MAY BE SENT TO LICENSED DISPOSAL FACILITY TO BE DISPOSED OF IN ACCORDANCE WITH FEDERAL/STATE REGULATIONS AND LOCAL ORDINANCES.
CONTAINERS: LIQUID BULK CONCENTRATE CONTAINERS SHOULD BE TRIPLE RINSED.

SECTION 7. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: SKIN, INGESTION, EYES
OVEREXPOSURE SYMPTOMS:
EYE CONTACT: MILD EYE IRRITATION.
SKIN CONTACT: PROLONGED CONTACT MAY RESULT IN REDNESS AND DERMATITIS.
INHALATION: NONE KNOWN TO UNISOURCE.
INGESTION: POSSIBLE CHEMICAL PNEUMONITIS IF ASPIRATED INTO LUNGS. MAY CAUSE STOMACH PAIN/CRAMPS, VOMITING AND NAUSEA.
CHRONIC HEALTH HAZARDS: NONE KNOWN TO UNISOURCE.

SECTION 8. EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: IMMEDIATELY FLUSH THE EYE WITH LARGE QUANTITIES OF FRESH RUNNING WATER FOR A MINIMUM OF 15 MINUTES. HOLD THE EYELIDS APART DURING THE IRRIGATION TO ENSURE FLUSHING OF THE ENTIRE SURFACE OF THE EYE LID WITH WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
SKIN CONTACT: RINSE WITH WARM WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
INHALATION: MOVE PERSON TO FRESH AIR IF OVEREXPOSED TO SPRAY OR RESPIRATORY IRRITATION OCCURS.
INGESTION: REQUIRES IMMEDIATE MEDICAL MANAGEMENT. DRINK LARGE AMOUNTS OF MILK OR WATER. VOMITING SHOULD BE INDUCED ONLY ON RECOMMENDATION OF MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 9. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: N/A. NONE REQUIRED WHEN USED AS DIRECTED.
VENTILATION: NORMAL ROOM VENTILATION SHOULD BE ADEQUATE.
PROTECTION GLOVES: NEOPRENE (RUBBER) GLOVES RECOMMENDED WHEN HANDLING CONCENTRATE FOR PROLONGED PERIODS OR IF SKIN IS ESPECIALLY SENSITIVE.
EYE PROTECTION: CHEMICAL GOGGLES/EYE PROTECTION WHEN HANDLING CONCENTRATE.
OTHER MEASURES: APPROPRIATE PROTECTIVE EQUIPMENT WHEN GROSS EYE/SKIN CONTACT MAY OCCUR. AVOID FOOD CONTAMINATION.

SECTION 10. ADDITIONAL INFORMATION AND PRECAUTIONS

HANDLING AND STORAGE: STORE IN COOL, DRY PLACE. FOLLOW LABEL DIRECTIONS. KEEP CONTAINER CLOSED WHEN NOT IN USE.
SARA TITLE III RATINGS:
ACUTE: YES
CHRONIC: NO
FIRE: NO
REACTIVITY: NO
CARCINOGENIC: NONE OF THE COMPOUNDS LISTED IN SECTION 2 OF THIS MSDS ARE LISTED ON THE IARC CARCINOGEN LIST, OR THE NTP OR OSHA TOXIC SUBSTANCES LIST.
TSCA: ALL CHEMICALS USED IN THE MANUFACTURE OF THIS MATERIAL ARE LISTED ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY.
HMIS RATINGS: HEALTH-1 FIRE-0 REACTIVITY-0 PROTECTION-A
NFPA RATINGS: HEALTH-1 FIRE-0 REACTIVITY-0 SPECIAL-

SECTION 11. REGULATORY (OPTIONAL)

HM-181 PROPER SHIPPING NAME (DOT): NONE
HM-181 DESCRIPTION (DOT): PROPER SHIPPING NAME CODE: UN/N/A
NUMBER PG#: OTHER: OC CONTENT: THEORETICAL = % () LB/GAL. TYPICAL
ANALYTICAL = % () LBS./GAL.
PHOSPHOROUS: % CONCENTRATE = NONE DILUTION: N/A = N/A GMS./GAL.

THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET REPRESENTS THE LATEST DATA AND BEST OPINION AS TO PROPER USE/HANDLING OF THIS PRODUCT UNDER NORMAL CONDITIONS. ANY USE OF THIS PRODUCT OR METHOD OF APPLICATION WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET AND THE PRODUCT LABEL DIRECTIONS IS THE RESPONSIBILITY OF THE USER. THIS MATERIAL SAFETY DATA SHEET WAS PREPARED IN ACCORDANCE WITH OSHA HAZARD COMMUNICATION REGULATIONS.