

1-2 Item # 31137

MANUFACTURED FOR: UNISOURCE WORLDWIDE, INC.  
1100 CASSATT ROAD  
BERAWN, PA 19312-0935  
24 HR. EMERGENCY NO.: (800)535-5053

PRODUCT NAME: #1047 LIQUID ENZYME II  
UNISOURCE ITEM #: 934712  
DATE ISSUED: 01/01/99  
SUPERSEDES:

NEPA RATING: HEALTH 1 FLAMMABILITY 0 REACTIVITY 0  
HMIS RATING: HEALTH 1 FLAMMABILITY 0 REACTIVITY 0

SECTION I  
THIS MSDS COMPLETES WITH OSHA'S HAZARD COMM. STANDARD 29 CFR 1910.1200 AND OSHA FORM 174

DOT HAZARD CLASSIFICATION \*: CONSUMER COMMODITY, ORM-D  
IDENTITY (TRADE NAME): #1047 LIQUID ENZYME II  
MSDS NUMBER \*: 1047-99-1  
DATE PREPARED: 01/01/99

PREPARED BY: REGULATORY DEPT.  
SECTION II - INGREDIENTS/IDENTITY INFORMATION

COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED (OPT.)
SOLVENT NAPHTHA	64742-88-7	5 MG/M3 (MIST)	5 MG/M3 (MIST)	5 MG/M3 (MIST)
VN & P NAPHTHA	64742-89-8	5 MG/M3 (MIST)	5 MG/M3 (MIST)	5 MG/M3 (MIST)
*METHANOL	67-56-1	200 PPM (MIST)	200 PPM (MIST)	250 PPM (STEL) 1-5
ISOBUTANE	75-28-5	800 PPM (SKIN)	800 PPM (SKIN)	
PROPANE	74-98-6	1000 PPM	ASPHYXIAN	
WATER	7732-18-5	NONE	NONE	

\* THIS PRODUCT CONTAINS METHANOL WHICH IS LISTED AND MAY REQUIRE REPORTING UNDER SARA TITLE III SEC. 313 IF USED OVER THE THRESHOLD REPORTING QUANTITY. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: CONCENTRATE 148 F  
SPECIFIC GRAVITY (H2O=1): CONCENTRATE 0.99  
PRESSURE (PSIG. @ 70 F): 50 +/- 5  
MELTING POINT: NO DATA  
VAPOR DENSITY (AIR=1): GREATER THAN ONE (1)  
EVAPORATION RATE (ETHYL ETHER=1): 1.62  
SOLUBILITY IN WATER: EMULSIFIES COMPLETELY INTO WATER.  
PH: 9.5 + 0.5  
APPEARANCE AND ODOR: THIN WHITE OPAQUE LIQUID WITH A PLEASANT SCENT. FOAM OUT OF AEROSOL CONTAINER.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

USA FLAME PROJECTION TEST  
6\*-8\*, NO FLASHBACK (NON-FLAMMABLE)  
FLAMMABLE LIMITS: NO DATA  
LEL - NO DATA  
UEL - NO DATA

EXTINGUISHING MEDIA -  
NOT USUALLY NECESSARY. CARBON DIOXIDE, DRY CHEMICAL, FOAM OR WATER FOG ACCEPTABLE.

SPECIAL FIRE FIGHTING PROCEDURES -  
USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARDS -  
AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 F. FOAM MAY RETAIN PROPELLANT.

SECTION V - REACTIVITY DATA

STABILITY: UNSTABLE - CONDITIONS TO AVOID: EXTREME HEAT, DIRECT SUNLIGHT  
STABLE - X

INCOMPATIBILITY (MATERIALS TO AVOID):  
STRONG ACIDS AND OXIDIZERS, SELECTED AMINES.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR - X  
MAY OCCUR - CONDITIONS TO AVOID: NONE KNOWN

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SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: EYES? YES INHALATION? YES SKIN? YES INGESTION? YES

HEALTH HAZARDS (ACUTE AND CHRONIC) - WARNING. HARMFUL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTENTS UNDER PRESSURE. TOXIC BY INGESTION. ASPIRATION HAZARD.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO NONE KNOWN

SIGNS AND SYMPTOMS OF EXPOSURE - REDNESS, TEARING, BURNING IN EYES, DEFFATTING OR DRYING OF SKIN, CRACKING. MARCOTIC EFFECTS POSSIBLE WITH INADEQUATE VENTILATION. IRRITATION OF NOSE AND THROAT. ASPIRATION HAZARD. CONTAINS METHANOL (LESS THAN 2.5%).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE PRE-EXISTING SKIN AND LUNG DISORDERS. FOLLOW GOOD CHEMICAL HYGIENE PROCEDURES TO AVOID THIS HAZARD.

EMERGENCY AND FIRST AID PROCEDURES: - EYES - FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION. INGESTION - DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. INHALATION - GET TO FRESH AIR. IF BREATHING HAS STOPPED. QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION. SKIN - FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - CAUTION. SLIP HAZARD. Wipe up small spills promptly with a towel other absorbent material. For large spills, isolate traffic and ventilate area. Eliminate all ignition sources. Wear protective gear as necessary. Dike to prevent spread. Pick-up on absorbent material. Put in suitable container. Dispose of properly.

WASTE DISPOSAL METHOD - CONSULT LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT PUNCTURE OR INCINERATE CONTAINER. REPLACE CAP ON EMPTY CAN, WRAP, THEN DISCARD CONTAINER IF ALLOWED BY APPLICABLE STATUTES.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING - DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. DO NOT SWALLOW. WASH THOROUGHLY AFTER HANDLING. CONTAINS PETROLEUM DISTILLATES. ASPIRATION HAZARD. STORE IN A COOL (UNDER 120 F.) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME, DIRECT SUNLIGHT, ETC. DO NOT PUNCTURE OR INCINERATE CONTAINER. DIRECT SPRAY AWAY FROM FACE. USE WITH ADEQUATE VENTILATION. REPLACE CAP WHEN NOT IN USE. AVOID INHALING MIST OR VAPORS.

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OTHER PRECAUTIONS - FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, ETC. DO NOT CONTAMINATE FOOD, WATER OR FEED BY USE OR STORAGE.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE) - NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. IF PELS OR TLVS ARE EXCEEDED (SEE SECTION II), USE AN APPROVED NIOSH/MSHA RESPIRATOR.

VENTILATION: LOCAL EXHAUST - NOT NECESSARY SPECIAL - NONE  
MECHANICAL (GENERAL) - YES OTHER - NONE

PROTECTIVE GLOVES YES (IMPERMEABLE, I.E. RUBBER, NEOPRENE, ETC.)

EYE PROTECTION YES (SAFETY GLASSES W/SIDE SHIELDS, OR GOGGLES)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT - IF NEEDED TO PREVENT BODY CONTACT. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

WORK/HYGIENIC PRACTICES - NORMAL. WASH THOROUGHLY BEFORE EATING, DRINKING, SMOKING, USING RESTROOMS, ETC.

DISCLAIMER OF WARRANTIES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS MATERIAL SAFETY DATA SHEET ARE SUPPLIED PURSUANT TO 29 CFR 1910.1200 OF THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS HAZARD COMMUNICATION RULE. ALL INFORMATION CONTAINED HEREIN IS PRESENTED IN GOOD FAITH AND IS BELIEVED TO BE APPROPRIATE AND ACCURATE.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.