



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

Prezyme Concentrate PCN: 242

Use: Enzymatic presoak. Dilute as directed.

Manufacturer : L&R Manufacturing Company, 577 Elm Street, P.O. Box 607 Kearny, NJ 07032-0607

USA. Publication Date: 05/04/2018

REV: L

Product information call 201-991-5330 www.lrultrasonics.com

For emergencies involving a spill, leak fire or accident contact CHEMTEL 800-255-3924 within the United States. Or 1-813-248-0585 for International calls.

2. HAZARDS IDENTIFICATION



WARNING! IRRITANT. MAY BE HARMFUL IF SWALLOWED.

Physical appearance and odor: Yellow liquid with mild enzyme odor.

A: WARNING STATEMENT: Good industrial hygiene practices should be used when handling this material.

Acute Eyes: Direct contact causes irritation, redness and possible tearing.

Acute Skin: Prolonged or repeated contact causes redness, and drying of the skin.

Acute Inhalation: Breathing high concentrations of vapors or mists may cause irritation to the nose and throat.

Acute Ingestion: Acute Ingestion: Will cause irritation to the digestive tract and signs of nervous system depression.

B: POTENTIAL HEALTH EFFECTS:

Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogen.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage	Component	CAS Number	Percentage
Water	7732-18-5	60 – 70	Mixed C8 Amphocarboxylates	68610-44-6	15 - 30
Nonylphenol, ethoxylated	9016-45-9	1- 10	1,2 Propanediol	57-55-6	1 – 10
Bacterial Protease	9014-01-1	1 – 10	Sodium Tetraborate	1303-96 - 4	1 – 5

The exact concentration of composition has been withheld as a trade secret

4. FIRST AID MEASURES

Eye Exposure: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Exposure: Wash thoroughly with water. If irritation or redness develops, seek medical attention.

Inhalation: If respiratory irritation or distress occurs, move victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion: Seek immediate medical attention. INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA: NOT COMMBUSTIBLE

Suitable Extinguishing Media: Extinguish with dry chemical, CO2 or a BC/ABC extinguisher.

Special Fire Fighting Procedures: None known

Unusual Fire and Explosion Hazards: Closed containers may explode due to build up of pressure when exposed to extreme heat.

Hazardous Decomposition Materials: (under fire conditions) None known

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Mop up spill and dispose of by dilution to a sanitary sewer system as permitted by local, state and federal regulations.

Environmental and Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 40 to 100°F. Protect from freezing

HANDLING: AVOID CONTACT WITH SKIN, EYES OR CLOTHING

8. EXPOSURE CONTROL/PERSONAL PROTECTION

General: These recommendations provide general guidance for handling of this product. Because specific work environments and material handling

practices vary, safety procedures should be developed for each intended application. When developing safe handling procedures, do not overlook the need to clean and dispose of the material. Waste resulting from the use of this product should be handled in accordance with Section 13: Disposal Considerations.

Exposure Guidelines: Exposure limits are recommended worker breathing limits. The following limits apply to this material:

<u>INGREDIENTS</u>	<u>LIMITS</u>	<u>INGREDIENTS</u>	<u>LIMITS</u>
Mixed C8 Amphocarboxylates	None established	Nonylphenol, ethoxylated	10 mg/m3 TWA AIHA
1,2 Propanediol	TWA:10 mg/m3 AIHA	Sodium Tetraborate	5 mg/m3 TWA
Bacterial Protease	0.1. x 106Au/ m3		

Engineering Controls: Normal room ventilation. AIHA WEEL: TWA 10 mg/m3, aerosol.

Respiratory Controls: For reasonable uses of this material, respiratory protection should not be necessary.

Eye/Face Protection: Safety glasses to protect from splashing.

Skin Protection: Rubber or plastic gloves to avoid drying and irritation to the skin.

Work Practice Control: Normal hygiene in the work area should be taken when working with or handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid.	Color: Yellow	Odor: Mild enzyme odor.
pH: 9 to 10 as concentrate	Specific Gravity: 1.08	Odor Threshold: Not available
Water Solubility: Soluble, may haze slightly	Melting Point Range: Not available	Evaporation Rate: Not available
Freezing Point Range: Approx. 24 ° F	Boiling Point: approx. 210 ° F.	Partition Coefficient; n-octanol / water: Not available
Vapor Pressure: Not established	Vapor Density: Not established	Decomposition Temperature: Not available
Flash Point: None to boiling	Method: Tag Closed Cup	Auto Ignition Temperature: Not available
Flammability limits (vol/vol %): Lower: No Data Upper: No Data		
Percent volatile by volume: Approx. 75 % by volume	V.O.C. (calculated): For Concentrate 0.7 lb/gal = 91.8 g/l, for used as directed: 0.005 lb/gal = 0.72 g/l.	

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to be avoided: Protect from freezing.
Materials/Chemicals to be avoided: None known
Decomposition Type: Thermal None known
Possibility of Hazardous Reactions: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: Irritating to eyes.
Acute Skin Irritation: No test data found for product.
Acute Dermal Toxicity: No test data found for product.
Acute Respiratory Irritation: No test data found for product.
Acute Inhalation Toxicity: No test data found for product.
Acute Oral Toxicity:
LD50(rat) =24 g/kg for C8 Amphocarboxylates LD50 (rat) = 20 gm/kg for 1,2 Propanediol
LD50 (rat) = 1600 mg/kg for Nonylphenol, ethoxylated LD50 (rat) = 2660mg/kg for Sodium Tetraborate
LD50 (rat) = 983 mg/kg For Bacterial
Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC OR ACGIH to be a probable or suspected human carcinogen. No additional test data was found for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found.

13. DISPOSAL CONSIDERATIONS

This product can be disposed in sanitary sewer system, with dilution, where permitted by local, federal and state regulations.

14. TRANSPORTATION INFORMATION

This product is not regulated for D.O.T. shipping. Do not stack cartons more than five high.

15. REGULATORY INFORMATION

Inventory Issues: All components of this product are listed on the U.S. TSCA, Canadian DSL, European EINECS/ELINS chemical listings

16. OTHER INFORMATION

National Fire Protection Association

Hazard Rating, NFPA	Health	Flammability	Reactivity	Special
	2	0	0	--

SDS CHANGES

<u>REV</u>	<u>DATE</u>	<u>DESCRIPTION OF CHANGE</u>
L	05/04/2018	Change in Emergency Contact

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made. This Safety Data Sheet was prepared by L&R Manufacturing Company.