



MATERIAL SAFETY DATA SHEET

ULTRADOSE ULTRASONIC CLEANING SOLUTION

PCN(s): 012

Publication Date: 8/17/11

REV: G

1. SUPPLIER AND EMERGENCY INFORMATION Emergency Phone Numbers:

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

Product Information
Call: 201-991-5330
www.lrultrasonics.com

For emergencies involving a spill, leak, fire or accident contact:
CHEMTREC - 800-424-9300
within the United States or (01)703-527-3887 [USA] for International collect calls

2. HAZARDS IDENTIFICATION

Physical appearance and odor: Honey color, clear solution, with characteristic detergent 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 drowsiness.

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 carcinogens.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Water	7732-18-5	35 - 45
Sodium Tetraborate	1303-96-4	1 - 2
Dodecylthioethoxylate	9004-83-5	1 - 5
Propanol, (2-Methoxy Methylethoxy)	39590-94-0	10 - 20
Nonylphenoxypolyethanol	9016-45-9	1 - 10
Ethoxylated, Propoxylated C8- C10 Alcohols	68603-25-8	1 - 2
Surfactant	68608-65-1	25 - 35

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:

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

Special Fire Fighting Procedures: None known

Unusual Fire and Explosion Hazards: Product will burn under fire conditions. Closed containers may explode due to build pressure when exposed to extreme heat.

Hazardous Decomposition Materials: (under fire conditions) Oxides of nitrogen, carbon and sulfur.

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: 39 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:

INGREDIENTS

LIMITS

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LIMITS

Water	None established	Sodium Tetraborate	10 mg/m ³
Propanol, (2 Methoxy Methylethoxy)	100 ppm TWA, OSHA	Dodecylthioethoxylate	None established
Nonyl Phenoxy Ethyleneoxy Ethanol	None established	"Surfactant"	None established
Ethoxylated Propoxylated C8-10 Alcohol	None established		

Engineering Controls: Normal room ventilation.
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: Clear Liquid	Color: Honey	Odor: Characteristic odor.
pH: 10.2	Specific Gravity: 1.026	Odor Threshold: Not available
Water Solubility: Soluble	Melting Point Range: Not available	Evaporation Rate: Not available
Freezing Point Range: 6°F	Boiling Point: Approx. 210 degrees F	Partition Coefficient; n-octanol / water: Not available
Vapor Pressure: Not established	Vapor Density: Not established	Decomposition Temperature: Not available
Flash Point: None Method: Tag Closed Cup	Auto Ignition Temperature: Not available	
Flammability limits (vol/vol %): Lower: No Data Upper: No Data		
Percent volatile by volume: Approximately 60% by volume V.O.C. (calculated): 1.71 lbs./ gal or 204.9 grams /l.		

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to be avoided: Heat open flame
Materials/Chemicals to be avoided: Strong acids and oxidizing agents.
Decomposition Type: Thermal Oxides of carbon, nitrogen and sulfur.
Possibility of Hazardous Reactions: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: Irritating to eyes.
Acute Skin Irritation: Irritating to Skin.
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) LD50(rat) = 3.0 gm / kg for Dodecylthioethoxylate LD50 (rat) > 5000mg/ kg for "Surfactant"
LD50 (rat) = 2660 mg / .kg for sodium tetraborate LD50 (rat) = 4 gm / kg for Nonylphenoxypolyethanol
LD50 (rat) = 3089 mg / /kg 2-Propoxy ethanol LD50(rat) = 2400 mg/kg Ethoxylated C8-10 alcohols
LD50 (rat) = 5400 uL for Propanol. (2 Methoxy Methylethoxy
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, where permitted by local, federal and state regulations.

14. TRANSPORTATION INFORMATION

This product is not regulated for transportation. 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	1	0	--

MSDS CHANGES

<u>REV</u>	<u>DATE</u>	<u>DESCRIPTION OF CHANGE</u>
F	8/23/07	Reviewed/ changed to ANSI Z400.1-2004 format
G	8/17/11	Revised/Updated

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made.

Prepared By: L&R Manufacturing Company

Date: 8/17/11

Product Name: **ULTRADOSE ULTRASONIC CLEANING SOLUTION**