



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

Identification of Substance and Manufacturer: UltraDose Ultrasonic Cleaning Solution PCN: 012
Use: Ultrasonic Cleaning Solution, diluted as per instructions Manufacturer : L&R Manufacturing Company, 577 Elm Street, P.O. Box 607 Kearny, NJ 07032-0607 USA. Publication Date: 6/13/2017
REV: J Product information call 201-991-5330 www.lrultrasonics.com For emergencies involving a spill, leak fire or accident contact CHEMTREC 800-424-9300 with the United States. Or (01) 703-527-3887 (USA) for International collect calls.

1. HAZARDS IDENTIFICATION



WARNING! IRRITANT! MAY BE HARMFUL IF SWALLOWED.

Good industrial hygiene practices should be used when handling this material.

Acute Eyes: Direct contact causes irritation, redness and possible tearing. Use good ventilation to minimize exposure.

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: 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	35 – 45	Sodium Tetraborate	1303-96-4	1- 2
Dodecyl mercaptan, ethoxylated	9004-83-5	1 – 5	Dipropylene Glycol Methyl Ether	34590-94-8	10 – 20
Nonyl Phenoxy Ethyleneoxy Ethanol	9016-45-9	1 – 10	Ethoxylated, Propoxylated C8- C10 Alcohols	68603-25-8	1 – 2
Surfactant	68608-65-1	25 – 35	Sodium Hydroxide	1310-73-2	0.4-1.0
Isopropyl Alcohol	67-63-0	0.2-1.0			

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:

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 up of 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.

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

Water
 Dipropylene Glycol Methyl Ether
 Nonyl Phenoxy Ethyleneoxy Ethanol
 Ethoxylated Propoxylated C8-10 Alcohol
 Sodium Hydroxide

LIMITS

None established
 100 ppm PEL OSHA
 None established
 None established
 2 mg/m3 PEL OSHA

INGREDIENTS

Sodium Tetraboarte
 Dodecyl mercaptan, ethoxylated
 "Surfactant"
 Isopropyl Alcohol

LIMITS

10 mg/ m3 PEL (powder)
 None established
 None established
 NIOSH REL: 400 ppm

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

pH: 9.6

Water Solubility: Soluble

Freezing Point Range: 6°F

Vapor Pressure: Not established

Flash Point: None **Method:** Tag Closed Cup

Flammability limits (vol/vol %): Lower: No Data **Upper:** No Data

Percent volatile by volume: Approximately 60% by volume **V.O.C. (calculated):** Concentrate: 1.71 lbs./ gal or 204.9 grams /l. Diluted as directed: 0.015 lbs/gal or .6 g/l

Color: Honey

Specific Gravity: 1.06

Melting Point Range: Not available

Boiling Point: Approx. 210 degrees

Vapor Density: Not established

Auto Ignition Temperature: Not available

Odor: Characteristic odor.

Odor Threshold: Not available

Evaporation Rate: Not available

F Partition Coefficient; n-octanol / water: Not available

Decomposition Temperature: Not available

Viscosity: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to be avoided: Heat, open flame.

Materials/Chemicals to be avoided: Strong acids and strong 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 Dodecyl mercaptan, ethoxylated, LD50 (rat) > 5000mg/ kg for "Surfactant"

LD50 (rat) = 2660 mg / .kg for sodium tetraborate LD50 (rat) = 4 gm / kg for Nonyl Phenoxy Ethyleneoxy Ethanol

LD50(rat) = 2400 mg/kg Ethoxylated C8-10 alcohols Dipropylene Glycol Methyl Ether LD50= 5130 mg/kg

LD50 (rat) = 5045 00 mg/kg Isopropyl Alcohol LD50 (rat) = 4090 mg/kg for Sodium Hydroxide

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 or international sir shipments (IATA). 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

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SDS CHANGES

REV

DATE

DESCRIPTION OF CHANGE

I

3/21/2014

SDS Format

J

6/13/2017

Update

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made. This UltraDose Ultrasonic Cleaning Solution has been prepared by L&R Manufacturing Company.