



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

Hydro-Sonic Cleaning Solution Non-Ammoniated PCN: 110

Use: Ultrasonic Cleaning Solution.

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

Publication Date: 3/3/2015

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 within the United States. Or (01) 703-527-3887 (USA) for International collect calls.

2. HAZARDS IDENTIFICATION



WARNING! IRRITANT, HARMFUL IF SWALLOWED.

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 will cause irritation to the respiratory tract.

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

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
WATER	7732-18-5	40- 55
OLEIC ACID	112-80-1	2-8
TERPENE HYDROCARBONS	BLEND N/A	5-15
2- PROPOXYETHANOL	2807-30-9	20 – 25
QUATERNARY AMMONIUM CHLORIDE	68610-19-5	1 - 5
DODECYLTHIOETHOXYLATE	9004-83-5	1 - 5
MONOETHANOLAMINE	141-43-5	1 - 5
SODIUM DODECYLBENZENE SULFONATE	25155-30-0	1 – 5
ETHOXYLATED PROPOXYLATED ALCOHOLS	68603-25-8	1 - 5
PINE OIL	8002-09-3	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. DO NOT INDUCE VOMITING.

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 condition) Oxides of carbon and nitrogen 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.

Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 39 to 90⁰F. Protect from freezing. . **HANDLING:** AVOID CONTACT WITH SKIN, EYES OR CLOTHING. Keep away from children. Use with adequate ventilation. Keep away from heat, sparks and flame. This is a concentrate. Use care to dilute properly. Keep container closed. Do not mix with any other solution. Do not add any other ingredients to this solution.

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	Monoethanolamine	3 ppm OSHA/PEL
Oleic Acid	None established	Ethoxylated Propoxylated Alcohols	None established
2-Propoxyethanol	None established	Sodium Dodecylbenzene Sulfonate	None established
Quaternary Ammonium Chloride	400 ppm OSHA/TWA	Dodecylthioethoxylate	None established
Pine Oil	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

pH: 10 to 11 (as concentrate)

Water Solubility: Soluble

Freezing Point Range: 6°F

Vapor Pressure: Not established

Flash Point: 117 °F (47.2 °C) **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):** 3.14 lbs. / gal or 378.8 grams / l. **V.O.C. (calculated):** at recommended dilution 1 part to 7 parts of water 0.3925 lbs/gallon or 47.35 grams / l.

Color: Amber

Specific Gravity: 0.98

Melting Point Range: Not available

Boiling Point: Not established

Vapor Density: Not established

Odor: Mild pine odor

Odor Threshold: Not available

Evaporation Rate: Not Applicable

Partition Coefficient; n-octanol / water: Not available

Decomposition Temperature: Not available

Auto Ignition Temperature: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to be avoided: Heat and open flame

Materials/Chemicals to be avoided: Strong acids, strong oxidizing agents, aluminum, magnesium, zinc.

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: 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) = 1085 mg / .kg for monoethanolamine

LD50 (rat) = 3089 mg / /kg 2-Propoxy ethanol

LD50 (rat) = 438 mg / kg for Sodium Dodecylbenzene Sulfonate **LD50 (rat) = 2.4 ml/kg for Ethoxylated Propoxylated Alcohols**

LD50 (rat) = 3.0 gm / kg for Dodecylthioethoxylate

LD50 (rat) = 2.4 ml/kg for Ethoxylated Propoxylated Alcohols

LD50 (rat) = 74 gm/ kg for Oleic Acid

LD50 (rat) = Not available for Quaternary ammonium chloride

LD50 (rat) = 3200 mg/ kg for terpene

Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, and 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

Classification for ground and ocean shipments UN 1993, Flammable Liquid, N.O.S. (2-propoxyethanol) Limited Quantity. Not packed for air shipments. 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

2

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MSDS CHANGES

REV

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J

DATE

2/20/13

3/3/15

DESCRIPTION OF CHANGE

Update Transport information

SDS Format

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