



MATERIAL SAFETY DATA SHEET
HYDRO-SONIC CLEANING SOLUTION NON-AMMONIATED
PCN(s) 110

Publication Date: 2/25/09

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: Clear amber liquid with mild pine 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. 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

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
WATER	7732-18-5	45- 55
OLEIC ACID	112-80-0	1 - 5
TERPENE HYDROCARBONS	BLEND N/A	10-20
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
NONYLPHENOXYPOLYETHANOI	9016-45-9	1 - 5

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: Biodegradable product. 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 90^oF. 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	Monoethanolamine	3 ppm OSHA/PEL
Oleic Acid	None established	Nonylphenoxypolyethanol	None established
2-Propoxyethanol	None established	Sodium Dodecylbenzene Sulfonate	None established
Quaternary Ammonium Chloride	400 ppm OSHA/TWA	Dodecylthioethoxylate	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)

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.

Color: Amber

Specific Gravity: 0.98

Melting Point Range: Not available

Boiling Point: Not established

Vapor Density: Not established

Method: Tag Closed Cup

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) = 74 gm/ kg for Oleic Acid

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

LD50(rat) = Not available for Quaternary ammonium chloride

LD50 (rat) = 438 mg / kg for Sodium Dodecylbenzene Sulfonate

LD50 (rat) = 4 gm / kg for Nonylphenoxypolyethanol

LD50(rat) = 3.0 gm / kg for Dodecylthioethoxylate

LD50 (rat) = 3200 mg/ kg for terpene

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 is biodegradable and can be disposed in sanitary sewer system where permitted by local, federal and state regulations.

14. TRANSPORTATION INFORMATION

For domestic ground transport this is classified as ORM-D, for containers of 1 gallon or smaller. For larger containers the classification is Compounds, Cleaning Liquid.(Contains 2-Propoxyethanol), class 3, NA 1993, PG III. 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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MSDS CHANGES

REV

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DATE

8/15/07

2/25/09

DESCRIPTION OF CHANGE

Reviewed/ changed to ANSI Z400.1-2004 format

Reviewed / deleted PCN#

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

Prepared By: L&R Manufacturing Company

Date: 02/25/09

Product Name: **HYDRO-SONIC CLEANING SOLUTION NON-AMMONIATED**