



# SAFETY DATA SHEET

## 1. Identification of Substance and Manufacturer:

**L&R HYDRO-SONIC CONCENTRATE PCN: 201**

**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:** 05/04/2018

**REV:** L

**Product information call 201-991-5330 [www.lrultrasonics.com](http://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! FLAMMABLE! IRRITANT! MAY BE HARMFUL IF SWALLOWED!**

**A.** 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 mist 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	Percentag
WATER	7732-18-5	15-40
OLEIC ACID	112-80-1	1 – 10
PINE OIL	8002-09-3	1 – 10
2- PROPOXYETHANOL	2807-30-9	17-22
2-PROPANOL	67-63-0	10 – 15
AMMONIUM HYDROXIDE	1336-21-6	20 – 30
SODIUM DODECYLBENZENE SULFONATE	25155-30-0	15 – 25

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:** Flammable Liquid

**Suitable Extinguishing Media:** Extinguish with dry chemical, CO<sub>2</sub> or a BC/ABC extinguisher.

**Special Fire Fighting Procedures:** Wear full protective clothing and self-contained breathing apparatus (SCBA) approved for fire fighting.

**Unusual Fire and Explosion Hazards:** May be ignited by excess heat, sparks or flames. 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 ammonia vapor.

## 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 90<sup>o</sup>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>
Isopropyl Alcohol	400 PPM OSHA/ AACGIH TWA	Oleic Acid	None established
Pine oil	100 PPM ACGIH TWA	Ammonium hydroxide	50 PPM ( as ammonia ) OSHA/PEL
Water	None established	Sodium Dodecylbenzene Sulfonate	None established
2-Propoxyethanol	None established, Recommended ACGIH TLV 25 PPM TWA		

**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:** Approximately 12.0 (as concentrate)

**Water Solubility:** Soluble

**Freezing Point Range:** < 32° F

**Vapor Pressure:** Not established

**Flash Point:** 87-89°F ( 31° C)    **Method:** Tag Closed Cup

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

**Percent volatile by volume:** Approximately 35% by volume

**Color:** Amber

**Specific Gravity:** 0.95

**Melting Point Range:** Not available

**Boiling Point:** Not established

**Vapor Density:** Not established

**Odor:** Strong Ammonia Odor

**Odor Threshold:** 5 ppm as ammonia

**Evaporation Rate:** Not Applicable

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

**Decomposition Temperature:** Not available

**Auto Ignition Temperature:** Not available

**VISCOSITY:** Similar to water

**V.O.C. (calculated):** 3.20 lbs. / gal or 380 grams / l. For recommended dilution (1 part to 7

parts of water: VOC (calculated) 0.4 lbs. /gallon or 47.5 grams / liter

## 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 and ammonia vapor.

**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) =** 74 gm/kg .for oleic acid

350 mg/kg for ammonium hydroxide

3089 gm/kg 2-propoxyethanol

3200 mg/kg for pine oil

5045 mg/kg for isopropyl alcohol

438 mg/kg for sodium Dodecylbenzene sulfonate

**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, with dilution, disposed in sanitary sewer system where permitted by local, federal and state regulations.

## 14. TRANSPORTATION INFORMATION

This product is classified as a flammable liquid for domestic shipments per 49 CFR. For approved domestic ground shippers, product is classified as ORM-D for containers of one (1) gallon or less shipped by domestic ground transportation. For all other containers, shippers, containers, export and air the classification is FLAMMABLE LIQUID N.O.S. (Contains Isopropyl Alcohol), class 3, Un1993, 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

2

3

0

--

### SDS CHANGES

REV

L

DATE

05/04/2018

DESCRIPTION OF CHANGE

Emergency Contact Change

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