

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

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N/A



**MATERIAL SAFETY DATA SHEET**  
**GENERAL PURPOSE CLEANER CONCENTRATE AMMONIATED**  
**PCN(s) 226**

Publication Date: 4/23/2013

REV: I

**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:** Hazy pink liquid with strong ammonia 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 mist causes irritation to the nose and drowsiness.

**Acute Ingestion:** Not known, but would be expected to cause nausea and diarrhea.

**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  | 10 - 25    |
| ISOPROPYL ALCOHOL  | 67-63-0    | 20 - 25    |
| OLEIC ACID         | 112-80-1   | 5 - 10     |
| PINE OIL           | 8002-09-3  | 5 - 10     |
| AMMONIUM HYDROXIDE | 1336-21-6  | 30 - 40    |
| SODIUM BICARBONATE | 144-55-8   | 0.5-2.0    |

**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°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**

Isopropyl Alcohol  
Pine oil  
Water

**LIMITS**

400 PPM OSHA/ AACGIH TWA  
100 PPM ACGIH TWA  
None established

**INGREDIENTS**

Oleic Acid  
Ammonium hydroxide  
Sodium bicarbonate

**LIMITS**

None Established  
50 PPM ( as ammonia ) OSHA/PEL  
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:** Hazy Liquid

**pH:** Approximately 11.5 (as concentrate)

**Water Solubility:** Soluble

**Freezing Point Range:** Not established

**Vapor Pressure:** Not established

**Flash Point:** 93 °F ( 33.9° C)      **Method:** Tag Closed Cup

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

**Percent volatile by volume:** Approximately 85% as water and alcohol  
directed 0.26 lbs./gal or 31.2 grams/l.

**Color:** Pink

**Specific Gravity:** 0.915

**Melting Point Range:** Not available

**Boiling Point:** 210- 212 ° F

**Vapor Density:** Not established

**Odor:** Strong Ammonia 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

**V.O.C. (calculated):** Concentrate 2.08 lbs./ gal or 249.3 grams / l, when used as

**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.

**Decomposition Type: Thermal:** Oxides of Carbon and Nitrogen

**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

3200 mg/kg for pine oil

350 mg/kg for ammonium hydroxide

5045 mg/kg for isopropyl alcohol

4220 mg/kg for sodium bicarbonate

**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**

For approved domestic ground shippers of gallons or less, transport classified as ORM-D. For all other others, containers, air or export, it is classified as Flammable liquid n.o.s. (Contains Isopropyl Alcohol), 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**

2

**Flammability**

3

**Reactivity**

0

**Special**

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**MSDS CHANGES**

**REV**

H

I

**DATE**

8/16/11

4/23/13

**DESCRIPTION OF CHANGE**

Reviewed / Updated

Reviewed/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: 4/23/2013

Product Name: **GENERAL PURPOSE CLEANER CONCENTRATE AMMONIATED**



## SAFETY DATA SHEET

### 1. Identification of Substance and Manufacturer:

**L&R GENERAL PURPOSE CLEANER CONCENTRATE AMMONIATED PCN 226**

**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:** 3/17/2014

**REV:** J

**Product information call** 201-991-5330 [www.lrultrasonics.com](http://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! Flammable liquid. Irritant. Harmful if swallowed.**

**Direct contact causes eye irritation. Prolonged skin contact causes redness and drying of the skin.**

**Breathing high concentrations of vapors or mist causes irritation to the nose and drowsiness.**

**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 mist causes irritation to the nose and drowsiness.

**Acute Ingestion:** Not known, but would be expected to cause nausea and diarrhea.

**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  | 10 - 25    |
| ISOPROPYL ALCOHOL           | 67-63-0    | 20 - 25    |
| OLEIC ACID                  | 112-80-1   | 5 - 10     |
| PINE OIL                    | 8002-09-3  | 5 - 10     |
| AMMONIUM HYDROXIDE SOLUTION | 1336-21-6  | 30 - 40    |
| SODIUM BICARBONATE          | 144-55-8   | 0.5-2.0    |

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. 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:** Ventilate area. 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°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 bicarbonate | OEL-Australia TWA 0.1 ppm (.3 mg/m3) |

**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:** Hazy Liquid

**pH:** Approximately 11.5 (as concentrate)

**Water Solubility:** Soluble

**Freezing Point Range:** Not established

**Vapor Pressure:** Not established

**Flash Point:** 93 °F ( 33.9° C)      **Method:** Tag Closed Cup

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

**Viscosity:** Same as water

**Percent volatile by volume:** Approximately 85% as water and alcohol      **V.O.C. (calculated):** Concentrate 2.08 lbs./ gal or 249.3 grams /l, when used as directed 0.26 lbs./gal or 31.2 grams/l.

**Color:** Pink

**Specific Gravity:** 0.915

**Melting Point Range:** Not available

**Boiling Point:** 210- 212 ° F

**Vapor Density:** Not established

**Odor:** Strong Ammonia Odor

**Odor Threshold:** 5 ppm

**Evaporation Rate:** Not Applicable

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

**Decomposition Temperature:** Not available

**Auto Ignition Temperature:** Not available

**Evaporation rate:** NA

## 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.

**Decomposition Type: Thermal:** Oxides of Carbon and Nitrogen

**Possibility of Hazardous Reactions: WILL NOT OCCUR**

## 11. TOXICOLOGICAL INFORMATION

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## 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

For containers over one gallon and for export or air: Flammable liquid n.o.s. (Contains Isopropyl Alcohol), 3 UN 1993, Packing groups III. Limited Quantities for containers of one gallon or less shipped by domestic ground 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**

2

**Flammability**

3

**Reactivity**

0

**Special**

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### MSDS CHANGES

REV

J

DATE

3/17/2014

DESCRIPTION OF CHANGE

SDS Format

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