



MATERIAL SAFETY DATA SHEET

222 NON-AMMONIATED ULTRASONIC INSTRUMENT CLEANING SOLUTION

PCN(s): 032, 191, 193

Publication Date: 11 / 17 /05

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1. SUPPLIER AND EMERGENCY INFORMATION

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

Product Information
Call: 201-991-5330

Emergency Phone Numbers:

For emergencies involving a spill, leak,
fire or accident contact:
CHEMTREC - 800-424-9300
within the United States or 703-527-3887
for international collect calls.

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS Number | Percentage |
|------------------|------------|------------|
| Stoddard Solvent | 8052-41-3 | 60-70 |
| VM&P Naphtha | 8032-32-4 | 15-20 |
| Oleic Acid | 112-80-1 | 5 -10 |
| Monoethanolamine | 141-43-5 | 1 - 5 |
| 2 Propoxyethanol | 2807-30-9 | 1 - 5 |
| n-Propanol | 71-23-8 | 1 - 5 |

3. HAZARDS IDENTIFICATION

Physical appearance and odor: Clear pale amber with characteristic odor

A: WARNING STATEMENT:

Good industrial hygiene practices should be used when handling it.

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 mists may cause irritation to the nose and drowsiness.

Acute Ingestion: May 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 carcinogens.

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:

FLASH POINT: 75 °F (23.9°C)

METHOD USED: Tag Closed Cup

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

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 and carbon.

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Ventilate area of spill, use non-reactive material to pick up spill. Dispose of in accordance with local, state and federal regulations.

Environmental and Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 39 to 100 °F. Keep away from flames or sparks.

HANDLING: AVOID CONTACT WITH SKIN, EYES OR CLOTHING. DO NOT STACK MORE THAN 5 CARTONS HIGH.

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

Stoddard Solvent
VM&P Naphtha
Oleic acid

LIMITS

100 ppm OSHA/ TWA
300 ppm OSHA/ ACGIH TWA
None established

INGREDIENTS

2 Propoxyethanol
Monoethanolamine
N-Propanol

LIMITS

200 ppm OSHA/ ACGIH TWA
3 ppm OSHA/ PEL
200 ppm OSHA / PEL

8. EXPOSURE CONTROL/PERSONAL PROTECTION, CONTINUED

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 Appearance: Clear pale amber

Odor: Characteristic

pH: 11.2

Specific Gravity: 0.795

Water Solubility: Forms an emulsion

Melting Point Range: N/A

Freezing Point Range: N/E

Boiling Point: > 212°F

Vapor Pressure: N/E

Vapor Density: N/E

Percent Volatile: Approx. 85-90%

V.O.C. (Calculated): 5.79 lbs/gal or 693.6 g/l

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal handling and storage conditions as described in Section 7.

Conditions to be avoided: Heat, open flame.

Materials/Chemicals to be avoided: Strong acids.

Decomposition type: Thermal Oxides of carbon and nitrogen

Hazardous Polymerization: WILL NOT OCCUR

Avoid the following to inhibit hazardous polymerization: NOT APPLICABLE.

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: LD 50 , Oral, Rat

Stoddard Solvent => 5gm/kg

N- propanol = 1870 mg/kg

VM&P Naphtha => 5 gm/kg

2 Propoxyethanol = 3089 mg/kg

Oleic Acid =>21.5 ml/kg or > 5 gm/kg

Monoethanolamine = 1080 mg/kg

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 carcinogens. No additional test data was found for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found

13. DISPOSAL CONSIDERATIONS

This material is a flammable liquid and must be disposed in accordance with all local, state and federal regulations.

IT CAN NOT BE DISPOSED OF IN A SANITARY SEWER SYSTEM.

14. TRANSPORTATION INFORMATION

This product is classified as a flammable liquid for domestic shipments per 49 CFR . For domestic ground shipments of container of 1 gallon or less, this material is listed as ORM-D. For all other containers : Flammable Liquid n.o.s. (Contains Naphtha, Petroleum), 3, UN1993, Packing group III Do not stack cartons more than five cartons 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

General

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DATE

MSDS CHANGES

DESCRIPTION OF CHANGE

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11/17/05

Reissued

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

Prepared By: L&R Manufacturing Company

Date: 03/01/99

**Product Name: # 222 NON-AMMONIATED ULTRASONIC INSTRUMENT
CLEANING SOLUTION**