MATERIAL SAFETY DATA SHEET

INSTRUMENT CLEANING DETERGENT CONCENTRATE NON-AMMONIATED

PCN(s) 149 Publication Date: 8-17-11 REV: G

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**
www.lrultrasonics.com

Emergency Phone Numbers:

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: Pale amber liquid with very mild 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 mists may cause irritation to the respiratory tract.
Acute Ingestion: Not known, but 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	50 - 70
Disodium Cocoamphodiacetate	68650-39-5	15 - 25
Propylene Glycol	57-55-6	10 - 20
Disodium Cocoamphodipropionate	68604-71-7	1 - 10
Sodium Hydroxide	1310-73-2	<1

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, CO_2 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: 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 120°F. Protect from freezing. Freezing will NOT damage the product.
Product may be thawed in warm water and then mixed to assure homogeneity. .
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	INGREDIENTS	LIMITS
Disodium Cocoamphodipropionate	None established	Disodium Cocoamphodiacetate	None established
Sodium Hydroxide	2 mg/ M3 OSHA/PEL	Propylene Glycol TWA: 10 (mg/m3) from AIHA	

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
Color: Pale Amber
Odor: Detergent Like Odor
pH: 11.9 t0 12.5 (as concentrate)
Specific Gravity: 1.02
Odor Threshold: Not available
Water Solubility: Soluble
Melting Point Range: Not available
Evaporation Rate: Not Applicable
Freezing Point Range: < 32o F
Boiling Point: > 212 ° F
Partition Coefficient; n-octanol / water: Not available
Vapor Pressure: Not established
Vapor Density: Not established
Decomposition Temperature: Not available
Flash Point: >142°F (60°C) **Method:** Tag Closed Cup
Auto Ignition Temperature: Not available
Flammability limits (vol/vol %): Lower: No Data **Upper**: No Data

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) = Disodium Cocoamphodiacetate > 5 g/kg
Propylene Glycol = 20 g/kg
LD50(mouse) = 40 mg/kg. For sodium hydroxide
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 disposed in sanitary sewer system, with dilution, where permitted by local, federal and state regulations.

14. TRANSPORTATION INFORMATION

This product is classified as a combustible liquid for domestic shipments per 49 CFR 173.150 3 (f). 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
	1	2	0	--

MSDS CHANGES

REV	DATE	DESCRIPTION OF CHANGE
F	8/21/07	**Reviewed/ changed to ANSI Z400.1-2004 format**
G	8/17/11	**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: 8-17-11
Product Name: **INSTRUMENT CLEANING DETERGENT CONCENTRATE NON-AMMONIATED**