



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

ELLANAR JEWELRY CLEANER CONCENTRATE AMMONIATED PCN 094, 169, 170

Use: Ultrasonic jewelry 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: 9/16/2014

REV: I

Product information call 201-991-5330 www.lrultrasonics.com

For emergencies involving a spill, leak fire or accident contact CHEMTREC 800-424-9300 with 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	0.1-2.0
SODIUM TETRABORATE	1303-96-4	0.1-0.4

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, CO₂ 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)
Sodium Tetraborate	5 mg/m3 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: Hazy Liquid	Color: Pink	Odor: Strong Ammonia Odor
pH: Approximately 11.5 (as concentrate)	Specific Gravity: 0.915	Odor Threshold: 5 ppm
Water Solubility: Soluble	Melting Point Range: Not available	Evaporation Rate: Not Applicable
Freezing Point Range: Not established	Boiling Point: 210- 212 ° F	Partition Coefficient; n-octanol / water: Not available
Vapor Pressure: Not established	Vapor Density: Not established	Decomposition Temperature: Not available
Flash Point: 93 °F (33.9° C)	Method: Tag Closed Cup	Auto Ignition Temperature: Not available
Flammability limits (vol/vol %): Lower: No Data Upper: No Data		Evaporation rate: NA
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 /1, when used as directed 0.26 lbs./gal or 31.2 grams/l.	

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 2660mg/kg for Sodium Tetraborate

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	Flammability	Reactivity	Special
	2	3	0	--

MSDS CHANGES

<u>REV</u>	<u>DATE</u>	<u>DESCRIPTION OF CHANGE</u>
H	2/19/13	Transportation updated
I	9/16/14	Safety Data Format

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