



# MATERIAL SAFETY DATA SHEET ELLANAR SILVER JEWELRY CLEANER

PCN(s) 077, 253, 258

Publication Date: 8/16/11

REV: G

## 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:** Clear liquid with white precipitate and sulfur like 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 nose and throat.

**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	Percentage
Water	7732-18-5	80-91
Thiourea	062-56-6	5 - 8
Sulfuric Acid	7664-93-9	1 - 2
Anionic Surfactant, Alcohol Sulfate	126-92-8	0.01 - 0.8

## 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, give large quantities of water.

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:** Skin contact may aggravate existing skin disease.

## 5. FIRE FIGHTING MEASURES

**FIRE HAZARD DATA:** NOT COMBUSTIBLE

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

**Special Fire Fighting Procedures:** None known

**Unusual Fire and Explosion Hazards:** Closed containers may burst due to build up of pressure when exposed to extreme heat.

**Hazardous Decomposition Materials:** (under fire conditions) None known..

## 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:** 40 to 100°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	LIMITS	INGREDIENTS	LIMITS
Thiourea	Ingestion may cause sensitization	Sulfuric Acid	1 mg/M3 ACGIH TWA
Anionic Surfactant	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:** Clear liquid with white precipitate      **Color:** Water white      **Odor:** Sulfur like odor  
**pH:** 1.4      **Specific Gravity:** 1.1      **Odor Threshold:** Not available  
**Water Solubility:** Soluble      **Melting Point Range:** Not available      **Evaporation Rate:** Not Applicable  
**Freezing Point Range:** < 32°F      **Boiling Point:** Approx. 212 degrees °F      **Partition Coefficient; n-octanol / water:** Not available  
**Vapor Pressure:** Not established      **Vapor Density:** Not established      **Decomposition Temperature:** Not available  
**Flash Point:** None to boiling      **Method:** Tag Closed Cup      **Auto Ignition Temperature:** Not available  
**Flammability limits (vol/vol %): Lower:** No Data **Upper:** No Data  
**Percent volatile by volume:** 90% by Volume      **V.O.C. (calculated):** < 5gm/l.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable  
**Conditions to be avoided:** Protect from freezing.  
**Materials/Chemicals to be avoided:** Strong bases, oxidizing agents, monel, steel, iron, aluminum, porous surfaces and antiqued finish silver.  
**Decomposition Type: Thermal:** Oxides of carbon, hydrogen and sulfur  
**Possibility of Hazardous Reactions: WILL NOT OCCUR**

## 11. TOXICOLOGICAL INFORMATION

**Acute Eye Irritation:** Irritating to eyes.  
**Acute Skin Irritation:** May cause irritation to the skin.  
**Acute Dermal Toxicity:** No test data found for product.  
**Acute Respiratory Irritation:** No test data found for product.  
**Acute Inhalation Toxicity:** May cause nose and throat irritation.  
**Acute Oral Toxicity:** LD50 (rat) = 1750 mg/kg For Thiourea  
LD50 (rat) = 2140 mg/kg For Sulfuric Acid  
LD50 (rat) = 4 gm/kg For Anionic Surfactant  
**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

Classified as ORM-D for domestic transportation. For export: Corrosive Liquid Inorganic n.o.s. (contains Sulfuric Acid), Un 3264, Class8, PG III. This product can not be shipped by air. 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
	3	0	0	--

### MSDS CHANGES

<u>REV</u>	<u>DATE</u>	<u>DESCRIPTION OF CHANGE</u>
F	8/9/07	Reviewed/ changed to ANSI Z400.1-2004 format
G	8/16/11	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  
Product Name: **ELLANAR SILVER JEWELRY CLEANER**

Date: 8/16/11