



# SAFETY DATA SHEET

## 1. Identification of Substance and Manufacturer:

**ELLANAR SILVER JEWELRY CLEANER PCN 077, 253, 258**

**Use: Silver cleaner. Use as is.**

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

**Publication Date: 05/07/2018 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 CHEMTEL 800-255-3924 within the United States. Or 1-813-248-0585 for International calls.**

## 2. HAZARDS IDENTIFICATION



**DANGER! CORROSIVE! CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY BE HARMFUL IF SWALLOWED.**

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:** Product is acidic and will cause irritation to the stomach, mucous membranes and signs of nervous depression

**B: POTENTIAL HEALTH EFFECTS:**

**Chronic Effects:** Contains materials (Thiourea and Sulfuric Acid (strong inorganic acid mists)) which may cause cancer.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Water	7732-18-5	88-92
Thiourea	062-56-6	4.5 – 7.5
Sulfuric Acid	7664-93-9	0.5 – 1.7
Anionic Surfactant	126-92-8	0.05 - 0.5

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, Give large quantities of water if conscious.

**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°F to 100°F, 4°C to 88°C. Protect from freezing.

**HANDLING:** AVOID CONTACT WITH SKIN, EYES OR CLOTHING. WASH THOROUGHLY AFTER HANDLING.

## 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**

Thiourea (particulates)  
Anionic Surfactant

**LIMITS**

10 mg/M3 ACGIH TWA  
None established

**INGREDIENTS**

Sulfuric Acid

**LIMITS**

1 mg/M3 ACGIH 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:** Clear liquid with white precipitate

**pH:** 1.4

**Specific Gravity:** 1.1

**Water Solubility:** Soluble

**Freezing Point Range:** < 32°F

**Vapor Pressure:** Not established

**Flash Point:** None to boiling **Method:** Tag Closed Cup

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

**Percent volatile by volume:** 90% by Volume **V.O.C. (calculated) :** < 5gm/l.

**Color:** Water White

**Odor Threshold:** Not available

**Melting Point Range:** Not available

**Boiling Point:** Approx. 212 degrees °F

**Vapor Density:** Not established

**Odor:** Sulfur like odor

**Evaporation Rate:** Not Applicable

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

**Decomposition Temperature:** Not available

**Auto Ignition Temperature:** Not available

**Evaporation:** Very slow, similar to water

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable

**Conditions to be avoided:** Protect from freezing and high temperatures

**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. Thiourea: Draize test, rabbit, eye: 14%, Sulfuric Acid (90%): Draize test, rabbit, eye: 250 ug Severe

**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. Sulfuric Acid LC 50 510 mg/m3 2 hr

**Acute Oral Toxicity:** LD50 (rat) = 1750 mg/kg For Thiourea LD50 (rat) = 4 gm/kg For Anionic Surfactant

LD50 (rat) = 2140 mg/kg For Sulfuric Acid

**Chronic Toxicity:** This product does contain substances that are considered by NTP (Thiourea) suspect carcinogen, (Sulfuric Acid) listed as strong inorganic acid mists, IARC (Sulfuric Acid) overexposure to strong inorganic acid mists. ACGIH (Sulfuric Acid) overexposure to strong inorganic acid mists and California (Thiourea) and (Sulfuric Acid) listed as strong inorganic acid mist containing sulfuric acid to be a probable or suspected human carcinogen.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicological Information: Aquatic toxicity:** Sulfuric Acid (77%) slightly to moderately toxic Bluegill Sunfish: LC50 48 Hours 49mg/l.

Thiourea Fish Fathead Minnow: LC50 > 600 mg/L: 96 Hr.

**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**

For approved domestic shippers classified as ORM-D for domestic ground transportation. For all other shippers and for export: Corrosive Liquid Inorganic n.o.s. (contains Sulfuric Acid), UN 3264, Class 8, PG III. This product cannot 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**

**Listed Australian Inventory of Chemical Substances (AICS.)**

**NATO Stock Number: 7930013780297**

**National Fire Protection Association**

Hazard Rating, NFPA

Health  
3

Flammability  
0

Reactivity  
0

Special  
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**SDS CHANGES**

REV  
J

DATE  
5/07/2018

DESCRIPTION OF CHANGE  
Change in Emergency Contact

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