



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: 9/17/2014 REV: I Product information call 201-991-5330 www.lrultrasonics.com

Frontier mitor mation can 201-991-5350 www.nutrasonics.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



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 sins of nervous depression

B: POTENTIAL HEALTH EFFECTS:

Chronic 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, CO₂ 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 THROUGHLY 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

| Re Ey Sk W 9. PHYSIC | Thiourea (particulates) Anionic Surfactant spineering Controls: Normal ro spiratory Controls: For reason re/Face Protection: Safety glass in Protection: Rubber or plastic ork Practice Control: Normal 1 | None esta oom ventilation. nable uses of this n sses to protect from | naterial, respiratory | Sulfuric A | | 1 mg/M3 AC | GIH TWA |
|---|---|---|--|---------------------------------|------------------------------|-------------------------------------|--|
| Re Ey Sk W 9. PHYSIC Physical Stat | espiratory Controls: For reason re/Face Protection: Safety glass in Protection: Rubber or plastic | nable uses of this n ses to protect from | | protection shou | ld not be new | NACCOTU | |
| Physical Stat | | | drying and irritation | | | - | uct. |
| | CAL AND CHEMICAL P | ROPERTIES | | | | | |
| | e: Clear liquid with white precipita Specific Gravity: 1.1 | | Vater White reshold: Not availabl | | Odor: Sulfur | like odor | |
| Water Solubi Freezing Poin Vapor Pressu | ility: Soluble nt Range: < 32°F Ire: Not established | Melting Po Boiling Po Vapor Der | Point Range: Not available point: Approx. 212 deg nsity: Not establishe | ailable E grees °F I ed D | Partition Co Decompositio | n Temperature: | ol / water: Not availat Not available |
| Flammabilit | None to boiling Method: T y limits (vol/vol %): Lower: N ile by volume: 90% by Volume | | | A | Auto Ignition Evaporation | n Temperature: : Very slow, simi | Not available llar to water |
| | LITY AND REACTIVIT | Y | | | | | |
| | nemical Stability: Stable | et from freezing an | A high temperatures | ~ | | | |
| Ma De | onditions to be avoided: Protect aterials/Chemicals to be avoid ecomposition Type: Thermal: ssibility of Hazardous Reactio | led: Strong bases, Oxides of carbon, | oxidizing agents, m , hydrogen and sulfu | nonel, steel, iron, | , aluminum, | porous surfaces a | and antiqued finish si |
| 11. TOXI(| COLOGICAL INFORMA | ATION | | | | | |
| Ac | cute Eye Irritation: Irritating to | o eyes. Thiourea: D | | ye: 14%, Sulfuri | ic Acid (90% |): Draize test, ra | bbit, eye: 250 ug Sev |
| | cute Skin Irritation: May cause cute Dermal Toxicity: No test d | | | | | | |
| Ac | cute Respiratory Irritation: No | o test data found fo | or product. | | | | |
| | cute Inhalation Toxicity: May c cute Oral Toxicity: LD50 (rat) | | | | | 2 hr Anionic Surfacta | ant |
| | LD50 (rat) | = 2140 mg/kg For | r Sulfuric Acid | | | | |
| strong inorga | tronic Toxicity: This product de nic acid mists, IARC (Sulfuric A d California (Thiourea) and (Sul | Acid) overexposur | re to strong inorgani | ic acid mists. AC | CGIH (Sulfu | ric Acid) overexp | posure to strong inor |
| 12 ECOL | | | | | | | |
| Ec | OGICAL INFORMATIO cotoxicological Information: Au iourea Fish Fathead Minnow: Lu | Aquatic toxicity: S | | slightly to mode | erately toxic | Bluegill Sunfish: | : LC50 48 Hours 49n |
| | SAL CONSIDERATION | | m, with dilution, w | here permitted b | y local, fede | ral and state regu | llations. |
| 14. TRAN | SPORTATION INFORM | IATION | | | | | |
| Fo Lie | r approved domestic shippers cl quid Inorganic n.o.s. (contains S an five high | lassified as ORM-l | | | | | |
| | LATORY INFORMATIC | | ted on the U.S. TSC | A, Canadian DSL | ., European E | INECS/ELINS ch | nemical listings |
| | R INFORMATION | | | | | | |
| N | sted Australian Inventory ATO Stock Number: 7930 ational Fire Protection As | 0013780297 | Substances (AIC | CS.) | | | |
| | azard Rating, NFPA | | Flammability 0 | Reactivity 0 | Spe | cial - | |
| | | | MODO OTLAN | CEC | | | |
| Ha | ~~ r | | MSDS CHAN | | 10E | | |
| | | <u>DATE</u> 13/13 | | FION OF CHAN | <u>NGE</u> | | |