



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, 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<sup>°</sup>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	<b>Point Range:</b> Not available <b>point:</b> Approx. 212 deg <b>nsity:</b> 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	<b>tronic Toxicity:</b> 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>		