



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

HANDGUN CLEANING SOLUTION PCN: 278

Use: Ultrasonic weapon cleaning solution, dilute per instructions.

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

Publication Date: 9/17/2014

REV: C

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! IRRITANT! 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 small amounts of this material during normal handling is not likely to cause harmful effects

Acute Ingestion: Swallowing small amounts of this material during normal Handling is not likely to cause harmful effects.

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	40 – 70
Tetra Potassium Pyrophosphate	7320-34-5	1 - 10
NJ TRADE SECRET REGISTRY NUMBER	12777-5009	1 – 10
PEG-15 Cocomonium Chloride	61791-10-4	1-10
Sodium Alkyl Diphenyl Oxide Sulfonate	119345-04-9	4-11
Potassium Metasilicate	1312-76-1	1 – 10
Tetrasodium EDTA hydrate	64-02-8	1 – 12

The exact composition and concentrations 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: Give 1 to 2 glasses of water if conscious and seek Immediate medical attention. Contact a physician, medical facility, or Poison control center for advice whether to induce vomiting.

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

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

FLASH POINT: None to boiling **METHOD USED:** Tag Closed Cup

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

Suitable Extinguishing Media: Extinguish with dry chemical, CO₂ or a BC/ABC extinguisher.

Special Fire Fighting Procedures: None known

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

Hazardous Decomposition Materials: (under fire conditions) Oxides of nitrogen and carbon.

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.

Environmental and Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 40 to 100^oF. 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>
Tetra potassium pyrophosphate	None established	Tetrasodium EDTA hydrate	None established
Potassium Metasilicate	None established	PEG-15 Cocomonium Chloride	None established
NJTSR # 12777-5009	None established	Sodium Alkyl Diphenyl Oxide Sulfonate	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 to hazy liquid.

pH: approximately 11.7 as concentrate

Water Solubility: Soluble

Freezing Point Range: Approx. 30 ° 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: Approx. 75 % by volume **V.O.C. (calculated):** Less than 5.0 grams / l., when used as directed less than 0.5 grams / l.

Color: Pale amber

Specific Gravity: 1.08 to 1.09

Melting Point Range: Not available

Boiling Point: approx. 212 ° F.

Vapor Density: Not established

Odor: virtually none

Odor Threshold: Not established

Evaporation Rate: Not available

Partition Coefficient; n-octanol / water: Not available

Decomposition Temperature: Not available

Auto Ignition Temperature: Not available

Evaporation: Slow, similar to water

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to be avoided: Keep away from heat

Materials/Chemicals to be avoided: Strong acids

Decomposition Type: Thermal Oxides of carbon and nitrogen

Possibility of Hazardous Reactions: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: May be 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): 2980 mg/kg [Rat.] for Tetra potassium pyrophosphate, Oral LD50 [rats] > 1350 mg/kg for 1359 NJ TRADE SECRET REGISTRY NUMBER 12777-5009, 847 mg/ KG For Potassium metasilicate, LD50 (rat) = 3030 mg/kg for Tetrasodium EDTA Hydrate, LD 50 > 5,000 mg /kg for PEG-15 Cocomonium Chloride, LD 50 > 2,000 mg/kg for Sodium Alkyl Diphenyl Oxide Sulfonate

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

Dispose of in accordance with all applicable local, federal and state regulations.

14. TRANSPORTATION INFORMATION

This product is **NON HAZARDOUS** and **NOT REGULATED** per 49 CFR 172.101. Do not stack cartons more than five high.
International (I.M.O.) Proper shipping Name, **NOT REGULATED**, Air (I.A.T.A.) Proper Shipping Name, **NOT REGULATED**

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
	1	0	0	--

MSDS CHANGES

<u>REV</u>	<u>DATE</u>	<u>DESCRIPTION OF CHANGE</u>
B	4/19/13	Reviewed/Updated
C	9/17/14	SDS format

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.