



MATERIAL SAFETY DATA SHEET

HANDGUN CLEANING SOLUTION

PCN(s) 278

Publication Date: 8/16/11

REV: A

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 to hazy pale amber solution with virtually no odor.

A: WARNING STATEMENT: Good industrial hygiene practices should be used when handling this material.

Acute Eyes: Direct contact may cause mild irritation, redness and possible tearing.

Acute Skin: Prolonged or repeated contact may cause drying and 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.

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	40 - 70
Tetrapotassiumpyrophosphate	7320-34-5	1 - 10
NJ TRADE SECRET REGISTRY NUMBER	12777-5009	1 - 10
Surfactant blend	Blend N/a	5 - 15
Potassium Metasilicate	1312-76-1	1 - 10
Tetrasodium EDTA hydrate	64-02-8	1 - 12

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:

INGREDIENTS

Tetrapotassium pyrophosphate
Potassium Metasilicate
NJTSR # 12777-5009

LIMITS

None established
None established
None established

INGREDIENTS

Tetrasodium EDTA hydrate
Surfactant Blend

LIMITS

None established
No data found

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.

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

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: No test data found for product.

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.

International (I.M.O.) Proper shipping Name, NOT REGULATED

Air (I.A.T.A.) Proper Shipping Name, NOT REGULATED

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

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MSDS CHANGES

REV

DATE

DESCRIPTION OF CHANGE

Initial

3/26/08

A

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

Date: 8/16/11

Product Name: **HANDGUN CLEANING SOLUTION**