



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

Handgun Lubricating Solution PCN: 244

Use: Ultrasonic Lubricant for Weapons. To be used only for lubricating applications as specified. Product is not intended to be heated. In no case should the solution be heated above 50 ° C.

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.

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL IF INHALED.

MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

A: WARNING STATEMENT:

Good industrial hygiene practices should be used when handling this material.

Eye Contact: Direct contact may cause mild irritation. Symptoms include stinging, tearing and redness.

Skin Contact: May cause mild skin irritation. Symptoms may include redness and burning of skin.

Inhalation: Breathing this material may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits.

Ingestion: Swallowing this material may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

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
Distillates (petroleum), hydrotreated light	64742-47-8	93-98
Solvent naphtha (petroleum), medium aliph.	64742-88-7	93-98
Polydimethylsiloxane	63148-62-9	1-2
White Oil	8042-47-5	1-5
Blue dye mixture	N/A	0.01-.06

The exact concentration of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General Information: Consult a physician. Show this safety data sheet to the doctor.

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. Contact a physician, medical facility, or Poison control center for advice whether to induce vomiting. If possible do not leave individual unattended.

Note to physician: This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity.

Inhalation of high concentrations of this material may be associated with cardiac arrhythmias. Sympathomimetic drugs may imitate cardiac arrhythmias in the person exposed to this material.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Suitable Extinguishing Media: Extinguish with dry chemical, CO₂, Water Spray

Unsuitable Extinguishing Media: Do not use a solid stream of water, since the stream will scatter and spread the fire. Water spray may be used to keep fire exposed containers cool.

Special Fire Fighting Procedures: Wear full protective clothing and self-contained breathing apparatus (SCBA) approved for fire fighting.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground. Closed containers may explode due to build up of pressure when exposed to extreme heat.

Hazardous Decomposition Materials: (under fire conditions) Aldehydes, Carbon Dioxide, Carbon Monoxide, Hydrocarbons

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Ventilate area of spill. Use non-reactive material to pick up spill. Dispose of in accordance with local, state and federal regulations. Do not let product enter drains.

Environmental and Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: Store in a cool, dry ventilated area between 39 to 100° F.

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>
Distillates	500 ppm OSHA TWA 8HR	Solvent naphtha	500 ppm OSHA TWA 8HR
White oil	5 mg/m3 OSHA PEL 8HR	Polydimethylsiloxane	None established

Engineering Controls: Provide adequate 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: Wear 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

pH: Not Established

Water Solubility: Slightly Soluble

Freezing Point Range: Not Established

Vapor Pressure: 0.500 mm HG @68°F/20°C

Flash Point: 142-151 ° F (61- 66°C) **Method:** Tag Closed

Flammability limits (vol/vol %): Lower: 0.6% Upper: 6.0%

Percent volatile by volume: Approx. 90 % **V.O.C. (calculated):** 6.0 lbs./ gal or 720 grams / l.

Color: Blue

Specific Gravity: 0.79 to 0.80

Melting Point Range: Pour Pint -13 -124°F

Boiling Point Range : 354-417 °F

Relative Vapor Density: (>) 1

Odor: Mild.

Odor Threshold: Not available

Evaporation Rate: 0.04 m-Butyl Acetate

Partition Coefficient; n-octanol / water: Not available

Decomposition Temperature: Not available

Auto Ignition Temperature: 455-599°F/235-315°C

Viscosity, kinematic 1.34 mm2/s@40°C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to be avoided: Keep away from heat and open flames

Materials/Chemicals to be avoided: Strong Acids, Alkalis, Oxidizing Agents

Hazardous Decomposition Products: Aldehydes, Oxides of Carbon Dioxide, Carbon Monoxides, Oxides of nitrogen, Hydrocarbons

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: LD50 rabbit, fixed dose procedure: Distillates >2,000 mg/kg, Solvent naphtha=2,000 mg/kg

Acute Respiratory Irritation: No test data found for product.

Acute Inhalation Toxicity: LC50: 4 hours exposure rat Distillates >5.28 mg/l, Solvent naphtha 4.3mg/l

Acute Oral Toxicity: LD50 (rat) > 5,000 mg/kg Distillates, LD50 (rat) = 2,000 mg/kg Solvent naphtha, medium aliph.

LD50 (rat) = 2840 mg /kg for polydiethylsiloxane, TD lo (rat) = 5,000 mg/kg for white oil

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: Distillates: aerobic 61% Remarks: Readily biodegradable

13. DISPOSAL CONSIDERATIONS

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

THIS PRODUCT SHOULD NOT BE DISPOSED OF IN A SANITARY SEWER SYSTEM.

14. TRANSPORTATION INFORMATION

This product is not regulated per 49 CFR 172.101.

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, South Korea ECL and Australian ACOIN chemical listings.

CERLA RQ - 40 CFR 302.4 (a): NONE LISTED

OSHA PROCESS SAFETY MANAGEMENT 29 CFR 1910: NONE LISTED

EPA HAZARD CATEGORIES; NONE

SARA 313 COMPONENTS 40 CFR 372.65: NONE LISTED

EPA Accidental Release Prevention 40 CFR 68 : NONE LISTED

SARA 311/312 Fire Hazard, Acute Health Hazard

16. OTHER INFORMATION

National Fire Protection Association

Hazard Rating, NFPA

Health

Flammability

Reactivity

Special

2

2

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MSDS CHANGES

REV

B

C

DATE

5/17/13

9/17/14

DESCRIPTION OF CHANGE

Reviewed/Updated

SDS Format

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