SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:
   Ultrasonic Weapon Lubricating Solution PCN: 276
   Use: Ultrasonic Cleaning Solution. This product is discontinued.
   Manufacturer: L&R Manufacturing Company, 577 Elm Street, P.O. Box 607 Kearny, NJ 07032-0607 USA.
   Publication Date: 3/4/2015
   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

   WARNING! FLAMMABLE LIQUID AND VAPOR. MAY BE HARMFUL IF SWALLOWED. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. PROLONG OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.
   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 may cause drowsiness.
   Acute Ingestion: Not known, but expected to cause nausea and diarrhea.
   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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Spirits</td>
<td>8052-41-3</td>
<td>65-80</td>
</tr>
<tr>
<td>Solvent Naphtha</td>
<td>64742-89-8</td>
<td>15-30</td>
</tr>
<tr>
<td>Light Aliphatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polydimethylsiloxanes</td>
<td>63148-62-9</td>
<td>0.5-4.0</td>
</tr>
<tr>
<td>Mineral Oil</td>
<td>8030-30-6</td>
<td>0.5-2.0</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-9</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

   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: If large quantities are ingested (more than 5 ounces in an adult), induce vomiting, preferably with syrup of Ipecac under the direction of a physician or poison center.

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

5. FIRE FIGHTING MEASURES

   FIRE HAZARD DATA: FLAMMABLE LIQUID
   Suitable Extinguishing Media: Extinguish with dry chemical, CO2 or a BC/ABC extinguisher.
   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: 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: Ventilate area of spill. Use non-reactive material to pick up spill. Dispose of in accordance with local, state and federal regulations.
   Environmental and Regulatory Reporting: Not required

7. HANDLING AND STORAGE

   Minimum/Maximum Storage Temperatures: 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:

**INGREDIENTS**

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Spirits</td>
<td>100 ppm OSHA/ TWA</td>
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<tr>
<td>Polydimethylsiloxane</td>
<td>None established</td>
</tr>
<tr>
<td>Xylene</td>
<td>100 ppm ACGIH TWA</td>
</tr>
</tbody>
</table>

**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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Clear Liquid

**pH:** Not Established

**Water Solubility:** Not Soluble

**Freezing Point Range:** Not Established

**Vapor Pressure:** Not available

**Flash Point:** 81 - 83 °F (27-28°C)

**Flammability limits (vol/vol %):**

- Lower: No Data
- Upper: No Data

**Percent volatile by volume:** Approx. 90% by volume

**V.O.C. (calculated):** 6.28 lbs/gal or 752.6 g/l

**Stability and Reactivity**

**Chemical Stability:** Stable

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

**Materials/Chemicals to be avoided:** Strong Acids.

**Hazardous Decomposition Products:** Thermal Oxides of carbon and nitrogen

**Possibility of Hazardous Reactions:** WILL NOT OCCUR

**10. TOXICOLOGICAL INFORMATION**

**Acute Eye Irritation:** 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 (rat):**

- Mineral Spirits > 5 gm/kg
- Polydimethylsiloxanes =2840 mg/kg
- Xylene = 4300 mg/kg
- Mineral Oil = 5000 mg/kg

**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.

**11. ECOLOGICAL INFORMATION**

**Ecotoxicological Information:** No data found.

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**12. DISPOSAL CONSIDERATIONS**

This material is a flammable liquid and must be disposed in accordance with all local, state and federal regulations.

IT CAN NOT BE DISPOSED OF IN A SANITARY SEWER SYSTEM.

**14. TRANSPORTATION INFORMATION**

This product is classified as a flammable liquid for domestic shipments per 49 CFR. For domestic ground shipments of containers of 1 gallon or less, it is listed as ORM-D. For all other containers: Flammable Liquid n.o.s. (Contains Naphtha, Petroleum), UN 1993, Packing Group III. 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**

<table>
<thead>
<tr>
<th>Hazard Rating, NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Special</th>
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<tbody>
<tr>
<td></td>
<td>2</td>
<td>3</td>
<td>0</td>
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**MSDS CHANGES**

<table>
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<tr>
<th>REV</th>
<th>DATE</th>
<th>DESCRIPTION OF CHANGE</th>
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</thead>
<tbody>
<tr>
<td>H</td>
<td>8/17/11</td>
<td>Reviewed/Updated</td>
</tr>
<tr>
<td>I</td>
<td>3/4/15</td>
<td>SDS Format</td>
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**Disclaimer:** The information herein is given in good faith but no warranty expressed or implied is made. This Ultrasonic Weapon Lubricating Solution was prepared by L&R Manufacturing.