1. Identification of Substance and Manufacturer:
SAFETY ULTRASONIC WEAPON CLEANING SOLUTION PCN: 215
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: G
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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>40 – 70</td>
</tr>
<tr>
<td>Tetra Potassium Pyrophosphate</td>
<td>7320-34-5</td>
<td>1 - 10</td>
</tr>
<tr>
<td>NJ TRADE SECRET REGISTRY NUMBER</td>
<td>12777-5009</td>
<td>1 – 10</td>
</tr>
<tr>
<td>PEG-15 Cocononium Chloride</td>
<td>61791-10-4</td>
<td>1-10</td>
</tr>
<tr>
<td>Sodium Alkyl Diphenyl Oxide Sulfonate</td>
<td>119345-04-9</td>
<td>4-11</td>
</tr>
<tr>
<td>Potassium Metasilicate</td>
<td>1312-76-1</td>
<td>1 – 10</td>
</tr>
<tr>
<td>Tetrasodium EDTA hydrate</td>
<td>64-02-8</td>
<td>1 – 12</td>
</tr>
</tbody>
</table>

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°F. 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:

<table>
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<tr>
<th>INGREDIENTS</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Tetra potassium pyrophosphate</td>
<td>None established</td>
<td>Tetrosodium EDTA hydrate</td>
<td>None established</td>
</tr>
<tr>
<td>Potassium Metasilicate</td>
<td>None established</td>
<td>PEG-15 Cocomonium Chloride</td>
<td>None established</td>
</tr>
<tr>
<td>NJTSR # 12777-5009</td>
<td>None established</td>
<td>Sodium Alkyl Diphenyl Oxide Sulfonate</td>
<td>None established</td>
</tr>
</tbody>
</table>

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.
Color: Pale amber
Odor: virtually none
pH: approximately 11.7 as concentrate
Specific Gravity: 1.08 to 1.09
Odor Threshold: Not established
Water Solubility: Soluble
Not available
Melting Point: Not available
Partition Coefficient: n-octanol / water: Not available
Freezing Point Range: Approx. 30 °F
Boiling Point: approx. 212 °F
Evaporation Rate: Not established
Auto Ignition Temperature: Not available
Vapor Pressure: Not established
Vapor Density: Not established
Flash Point: None to boiling
Method: Tag Closed Cup
Decomposition Temperature: Not available
Flammability limits (vol/vol %): Lower: No Data, Upper: No Data
Evaporation: Slow, similar to water
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.

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 Tetrosodium EDTA Hydrate, LD 50 > 5000 mg/kg for PEG-15 Cocomonium Chloride. LD 50 > 2000 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

<table>
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<tr>
<th>REV</th>
<th>DATE</th>
<th>DESCRIPTION OF CHANGE</th>
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<tbody>
<tr>
<td>F</td>
<td>4/19/2013</td>
<td>Updated</td>
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<tr>
<td>G</td>
<td>9/17/2014</td>
<td>SDS format</td>
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