



**MATERIAL SAFETY DATA SHEET**  
**SF - 1 SOLVENT FREE DEGREASER CONCENTRATE**  
**PCN(s) 140, 221**      Publication Date: 8/17/2011

REV: I

**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:** Green, clear material with mild odor.

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

**Acute Eyes:** Direct contact causes irritation, redness and possible tearing. Use good ventilation to minimize exposure.

**Acute Skin:** Prolonged or repeated contact causes redness, and drying of the skin.

**Acute Inhalation:** Breathing high concentrations of vapors or mists will cause irritation to the respiratory tract.

**Acute Ingestion:** Acute Ingestion: Will cause irritation to the digestive tract and signs of nervous system depression.

**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	70 - 90
Sodium Metasilicate	6834-92-0	1 - 5
Sodium Xylene sulfonate, solution	1300 -72 -7	1 - 10
Quaternary Ammonium Compound	68610-19-5	1 - 5
Ethoxylated Propoxylated Alcohols	68603-25- 8	1 - 5

**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:** Seek immediate medical attention. DO NOT 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, CO<sub>2</sub> 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<sup>o</sup>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:

**INGREDIENTS**

**LIMITS**

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**LIMITS**

Water	None established	Ethoxylated Propoxylated Alcohol	None established
Quaternary Ammonium Compound	400 ppm OSHA/TWA	Sodium Xylene Sulfonate, solution	None established
Sodium Metasilicate	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 liquid.

**pH:** 12.4 as concentrate, 11.9 at 20% by volume

**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. 84 % by volume **V.O.C. (calculated):** Less than 5.0 grams / l.

**Color:** Green

**Specific Gravity:** 1.05

**Melting Point Range:** Not available

**Boiling Point:** approx. 212 ° F.

**Vapor Density:** Not established

**Odor:** Mild odor.

**Odor Threshold:** Not available

**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, strong oxidizing agents, aluminum magnesium, zinc

**Decomposition Type:** Thermal Oxides of carbon and ammonia vapor

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

**11. 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) = 800 mg / kg for Sodium Metasilicate** **LD50 (rat) = Unknown for Quaternary Ammonium Compound**

**LD50 (rat) = 2500 mg / kg for Ethoxylated Propoxylated Alcohol** **LD50 (rat) = Unknown for Sodium Xylene Sulfonate solution**

**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**

This product can be disposed in sanitary sewer system, with dilution, where permitted by local, federal and state regulations.

**14. TRANSPORTATION INFORMATION**

This product is not regulated for D.O.T. shipping. 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
	1	0	0	--

**MSDS CHANGES**

<b>REV</b>	<b>DATE</b>	<b>DESCRIPTION OF CHANGE</b>
H	2/26/09	Reviewed / deleted PCN#
I	8/17/11	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: 08/17/11

Product Name: **SF - 1 SOLVENT FREE DEGREASER CONCENTRATE**