



MATERIAL SAFETY DATA SHEET

SF - 1 SOLVENT FREE DEGREASER CONCENTRATE

PCN (S) : 113,140, 221

Publication Date: 11/ 18 /05

REV F

1. SUPPLIER AND EMERGENCY INFORMATION

L&R Manufacturing Company
577 Elm Street, P.O. Box 607
Kearny, NJ 07032 - 0607 USA

Product Information
Call: **201-991-5330**

Emergency Phone Numbers:
For emergencies involving a spill, leak,
fire or accident contact:
CHEMTREC - 800-424-9300
within the United States or **703-527-3887**
for international collect calls.

2. 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	68444- 16 - 6	1 - 5
Ethoxylated Propoxylated C 8 -10 Alcohols	68603-25- 8	1 - 5

3. 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 and of the skin.

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

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 carcinogens.

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

Extinguishing Media: Extinguish with dry chemical, CO₂ or a BC/ABC extinguisher.

Special Fire Fighting Procedures: None known

Unusual Fire and Explosion Hazards: Product will burn under fire conditions. 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: Biodegradable product. 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: 39 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:

INGREDIENTS

LIMITS

Water	None established
Quaternary Ammonium Compound	400 ppm OSHA/TWA
Sodium Metasilicate	None established
Ethoxylated Propoxylated c8-10 Alcohol	None established
Sodium Xylene Sulfonate, solution	None established

8. EXPOSURE CONTROL/PERSONAL PROTECTION, CONTINUED

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 Appearance: Clear green 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

Percent volatile by volume: Approx. 84 % by volume

Odor: Mild odor.

Specific Gravity: 1.05

Melting Point Range: Not available

Boiling Point : approx. 212 ° F.

Vapor Density: Not established

V.O.C. (calculated) : less than 5.0 g / l.

10. STABILITY AND REACTIVITY

Chemical Stability:

This material is stable under normal handling and storage conditions as described in Section 7.

Conditions to be avoided: Heat, open flame.

Materials/Chemicals to be avoided: Strong acids, strong oxidizing agents, aluminum magnesium, zinc

Decomposition type: Thermal Oxides of carbon and ammonia vapor

Hazardous Polymerization: WILL NOT OCCUR

Avoid the following to inhibit hazardous polymerization: NOT APPLICABLE.

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) = 2400 mg / kg for Ethoxylated Propoxylated C8-10 Alcohol

LD50 (rat) = Unknown for Quaternary Ammonium Compound

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 carcinogens. No additional test data was found for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found.

13. DISPOSAL CONSIDERATIONS

This product is biodegradable and can be disposed in sanitary sewer system 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	General
1	0	0	--

MSDS CHANGES

REV

F

DATE

11/18/05

DESCRIPTION OF CHANGE

Reissued

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made

Prepared By: L&R Manufacturing Company

Date: 02/02/99

Product Name: SF-1 SOLVENT FREE DEGREASER CONCENTRATE