



# MATERIAL SAFETY DATA SHEET

## EXTRA HEAVY STAIN REMOVER

PCN(s): 237

Publication Date: 11 /28/ 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 703-527-388 for international collect calls

### 2. COMPOSITION/INFORMATION ON INGREDIENT

Component	CAS Number	Percentage
Lithium Hypochlorite Mixture	13840-33-0	100

### 3. HAZARDS IDENTIFICATION

**Physical appearance and odor:** White granular powder with chlorine 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.

**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 drowsiness.

#### B: POTENTIAL HEALTH EFFECTS:

**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 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. Rinse mouth with water and dilute by giving 1 or 2 glasses of water.

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

### 5. FIRE FIGHTING MEASURES

#### FIRE HAZARD DATA:

**FLASH POINT:** Not Applicable

**METHOD USED:** Tag Closed Cup

**Flammability limits ( vol/vol% ):** Lower: No Data Upper: No Data

**Extinguishing Media:** Water only: No dry chemical, CO<sub>2</sub>, or Halon

**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) Chlorine gas

### 6. ACCIDENTAL RELEASE MEASURES

**Cleanup and Disposal of Spill:** Sweep up spilled material in a plastic container and then wash area to remove any residuals.

**Environmental and Regulatory Reporting:** Not required

### 7. HANDLING AND STORAGE

**Minimum/Maximum Storage Temperatures:** Ambient room temperature. Store away from oxidizable materials, strong acids and flammable liquids. Keep container tightly closed.

**HANDLING:** AVOID CONTACT WITH SKIN, EYES OR CLOTHING. Avoid breathing dust.

### 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

Lithium Hypochlorite mixture

#### LIMITS

No Data Available

**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:** White granular solid

**Odor:** Chlorine like odor.

**pH:** 11 at 1% solution

**Specific Gravity:** 0.9 -1.0

**Water Solubility:** 43 %

**Melting Point Range:** Not applicable

**Freezing Point Range:** Not established

**Boiling Point:** Not applicable

**Vapor Pressure:** Not applicable

**Vapor Density:** Not applicable

**Percent Volatile:** Not applicable

**V.O.C. (Calculated):** None

## 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:** Contact with combustible materials. Contamination with moisture.

**Materials/Chemicals to be avoided:** Acids, oxidizable materials, combustible materials.

**Decomposition type:** Thermal Toxic chlorine gases.

**Hazardous Polymerization:** WILL NOT OCCUR

**Avoid the following to inhibit hazardous polymerization:** NOT APPLICABLE.

## 11. TOXICOLOGICAL INFORMATION

**Acute Eye Irritation:** Causes severe irritation to the eye.

**Acute Skin Irritation:** Can be corrosive to the skin.

**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:** For the product, the LD50( rat ) = 555 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 carcinogens. No additional test data was found for this product.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:** Hazardous to fish and Daphnia. This product is toxic to fish and maybe slightly toxic to birds.

Rainbow Trout: 96 Hour LC50 ( static ) = 0.2 mg / L.

Mallard Duck: Acute Oral LD50 = 567 mg/kg.

Daphnia: 48 Hour LC50 (static) = 23 microgram/L

## 13. 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 an Oxidizer per 49 CFR 171.101. For domestic ground shipments of container of 1 kilogram or less, this material is listed as ORM-D. For all other containers : Lithium Hypochlorite, Dry, 5.1 Oxidizing Agent, UN 1471, Packing Group II. 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

3

Flammability

0

Reactivity

1

Special

OXY

### MSDS CHANGES

REV

F

DATE

11/28/05

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: 03/05/99

Product Name: **EXTRA HEAVY STAIN REMOVER**