



# MATERIAL SAFETY DATA SHEET

## POTASSIUM HYDROXIDE PELLETS

PCN (s): 90077

Publication Date: 2/26/09

REV: E

### 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:** White Pellets

#### A: Warning Statement:

Good industrial hygiene practices should be used when handling this material.

**Acute Eyes:** Direct contact causes moderate to severe damage to the eyes.

**Acute Skin:** Irritating to the skin, may cause skin sensitivity.

**Acute Inhalation:** Will cause irritation to the respiratory system.

**Acute Ingestion:** Will cause damage to mucus membranes, and other tissue. Ingestion of large quantities may be fatal.

#### 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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Potassium Hydroxide	1310-58-3	85 - 100

### 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 will cause irritation and burning.

### 5. FIRE FIGHTING MEASURES

**FIRE HAZARD DATA:**

**NOT COMBUSTIBLE**

**Suitable Extinguishing Media:** Extinguish surrounding area with dry chemical, CO<sub>2</sub> or a BC/ABC extinguisher.

**Special Fire Fighting Procedures:** None known

**Unusual Fire and Explosion Hazards:** None Known

**Hazardous Decomposition Materials:** under fire conditions, oxides of nitrogen and carbon

### 6. ACCIDENTAL RELEASE MEASURES:

**Cleanup and Disposal of Spill:** Sweep up, avoid breathing dust. Residual material may be washed with water. Dispose of in accord with Federal, State and Local regulations.

**Environmental and Regulatory Reporting:** Not required

### 7. HANDLING AND STORAGE

**Minimum/Maximum Storage Temperatures:** 32 to 100<sup>o</sup>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**

Potassium hydroxide

**LIMITS**

2 mg/M<sup>3</sup> TLV/TWA

**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:** Pellets

**pH:** > 13 (1% Solution in water )

**Water Solubility:** Soluble

**Freezing Point Range:** Not applicable

**Vapor Pressure:** 96 mm Hg

**Flash Point:** Not Combustible **Method:** Tag Closed Cup

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

**Percent volatile by volume:** Less than 1% by volume **V.O.C. (calculated):** Less than 5 grams / l.

**Color:** White

**Specific Gravity:** 2.04

**Melting Point Range:** Not available

**Boiling Point:** Not Established.

**Vapor Density:** Not Available

**Odor:** no 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 nitrogen

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

## 11. TOXICOLOGICAL INFORMATION

**Acute Eye Irritation:** Causes severe Irritation to eyes.

**Acute Skin Irritation:** May cause severe irritation to Skin.

**Acute Dermal Toxicity:** Causes severe burning of mouth and stomach

**Acute Respiratory Irritation:** Excessive inhalation of the dust is irritating and may be severely damaging to the respiratory tract..

**Acute Inhalation Toxicity:** No test data found for product.

**Acute Oral Toxicity:**

**LD50 (rat) = 273 mg/kg for Potassium Hydroxide**

**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

For domestic ground shipments this product is classified ORM-D. For any other transportation the proper designation is

POTASSIUM HYDROXIDE Class 8 UN 1813, 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

Flammability

Reactivity

Special

3

0

0

--

### MSDS CHANGES

REV

DATE

DESCRIPTION OF CHANGE

E

1/11/08

Reviewed/ changed to ANSI Z400.1-2004 format

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

Prepared By: L&R Manufacturing Company

Date: 2/26/09

Product Name: **POTASSIUM HYDROXIDE PELLETS**