



## SAFETY DATA SHEET

### 1. Identification of Substance and Manufacturer:

**Potassium Hydroxide Pellets PCN: 90077**

**Use: To be used only with Aqua Torch as per directions.**

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

**Publication Date: 9/17/2014**

**REV: H**

**Product information call 201-991-5330 [www.lrultrasonics.com](http://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



**WARNINGS! CORROSIVE! HARMFUL IF SWALLOWED! CAUSES SEVERE BURNS!**

#### B: POTENTIAL HEALTH EFFECTS:

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

**Acute Skin:** Causes skin burns.

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

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

**Chronic Effects:** This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogen. Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis

### 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. Remove grossly contaminated clothing. 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. If conscious rinse mouth with plenty of water and give plenty of water to drink.

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

### 5. FIRE FIGHTING MEASURES

#### FIRE HAZARD DATA:

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

**Unsuitable Extinguishing Media:** Do not use a solid stream of water, since the stream will scatter and spread the fire. Water spray may be used to keep fire exposed containers cool.

**Special Fire Fighting Procedures:** Wear full protective clothing and self-contained breathing apparatus (SCBA) approved for fire fighting.

**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:** Ventilate area of spill. Use non-reactive material to pick up spill. Dispose of in accordance with 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 HEAT, SPARKS AND FLAMES

**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:** 360 ° C

**Boiling Point:** 1320 ° C

**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. Readily absorbs carbon dioxide and moisture from air.

**Conditions to be avoided:** Keep away from heat. Avoid Excess moisture.

**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:** Fish: Mosquito Fish: LD50 80.0 mg/L; 24 Hr.

## 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 approved domestic ground shippers this product is classified ORM-D for domestic ground shipments. For any other shippers or transportation the proper designation is: Corrosive (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

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### MSDS CHANGES

REV

G

H

DATE

2/19/13

9/17/14

DESCRIPTION OF CHANGE

Update

SDS Format

**Disclaimer:** The information herein is given in good faith but no warranty expressed or implied is made. This Potassium Hydroxide SDS has been prepared by L&R Manufacturing Company.