



## 2. HAZARDS IDENTIFICATION

**Appearance:** Clear    **Physical State**    Liquid    **Odor**    Non-specific, no fragrance added

### Classification

Skin Corrosion/Irritation	Category 1
Eye Damage	Category 1
-	-
-	-
-	-

### Signal Word

**DANGER**



### Hazard Statements

Causes severe skin burns and eye damage.

### Precautionary Statements – Prevention

Wear chemical-splash goggles, chemical-resistant protective gloves, and footwear. Avoid contact with eyes, skin and clothing. Do not breathe vapors or mist. Do not eat, drink or smoke when using this product.  
KEEP OUT OF THE REACH OF CHILDREN.

### Precautionary Statements Response

**IF IN EYES:** Rinse continuously with copious amounts of water for several minutes. Contact physician immediately.

**IF ON SKIN:** Take off contaminated clothing immediately. Rinse skin with water for several minutes. Seek medical attention if needed.

**IF INGESTED:** Rinse mouth. DO NOT INDUCE VOMITING. If conscious drink milk or water to dilute if tolerated. Seek medical attention.

**IF INHALED:** Remove person from contaminated area, and move to fresh air. Seek medical attention.

### Precautionary Statements – Storage

Store in the original corrosive resistant container. Store in a well ventilated storage area. Keep locked up.  
KEEP OUT OF REACH OF CHILDREN

### Precautionary Statements – Disposal

Dispose of contents and container in accordance with federal, state, and local laws.

### Other Hazards

KEEP OUT OF REACH OF CHILDREN.

Harmful to marine life.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight%
POTASSIUM HYDROXIDE	1310-58-3	< 25%
-	-	-
-	-	-
-	-	-

**4. FIRST-AID MEASURES****First Aid Measures**

**IF IN EYES:** Rinse cautiously with water for several minutes. Contact a physician immediately.

**IF ON SKIN:** Take off contaminated clothing immediately. Rinse skin with water for several minutes. Seek medical attention if needed.

**IF INGESTED:** Rinse mouth. DO NOT INDUCE VOMITING. If conscious drink milk or water to dilute if tolerated. Seek medical attention.

**IF INHALED:** Remove person from contaminated area, and move to fresh air. Seek medical attention.

**Most Important Symptoms and Effects**

**Symptoms** Can cause severe burns to skin and eyes. May cause blindness without immediate first aid. May cause irritation to respiratory system if concentrated vapors are inhaled. Harmful if swallowed. Can cause serious burns to mouth, throat, and stomach.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

CO<sub>2</sub> or foam. Select an extinguisher suitable to fire size.

### Unsuitable Extinguishing Media

No restrictions based on chemical hazards

### Specific Hazards Arising from the Chemical

No known hazards.

### **Hazardous Products Arising from Combustion:**

Oxides of carbon and other fumes.

### Protective equipment and precautions for firefighters

Wear a Self-Contained Breathing Apparatus and full protective gear as conditions warrant.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

<b>Personal Precautions</b>	Avoid contact with eyes and skin, spill may cause surface to become slippery. Clean up immediately using best management practices guide.
<b>Eye/Face Protection:</b>	Anti-splash safety goggles.
<b>Skin and Body Protection:</b>	Chemical resistant rubber gloves, apron, or lab coat
<b>Respiratory Protection:</b>	Wear a suitable respirator, when mist or vapors are present.

<b>Environmental Precautions</b>	Prevent spill from entering into drains, sewers, or surface water ways.
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### Methods and Material for containment and cleaning up

<b>Methods for Containment</b>	Dike area to contain spill
<b>Methods for Clean-up</b>	Pump spilled product into a properly labeled container. Absorb remaining products with approved absorbent or sand. Place in an approved container for proper disposal. Always dispose of waste in accordance with all federal, state, and local laws.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practices. Use personal protection as recommended in Section 8. Avoid contact with skin, and eyes. Avoid inhalation of concentrated vapors.
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep away from incompatible materials. Store in original corrosive resistant container. Store in a well ventilated storage area. Keep locked up. KEEP OUT OF THE REACH OF CHILDREN.
<b>Incompatible Materials</b>	Strong acids, amphoteric metals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Appropriate Engineering Controls

**Engineering Controls**                      None required. General room ventilation is typically adequate.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection**                      Anti-splash safety goggles.

**Skin and Body Protection**                Chemical resistant rubber gloves, apron, or lab coat.

**Respiratory Protection**                  Wear a suitable respirator, when concentrated mist or vapors are present.

**General Hygiene Considerations**      Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Non-specific, no fragrance added
<b>Appearance</b>	Clear Liquid	<b>Odor Threshold</b>	Not Determined
<b>Color</b>	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks - Method</u>
pH	12-13	
Melting Point/ Freezing Point	N/A	
Boiling Point/ Boiling Range	Approx. 212°F	
Flash Point	>200°F	
Evaporation Rate	N/A	
Upper Flammability Limits	N/A	
Lower Flammability Limit	N/A	
Vapor Pressure	N/A	(mm GHZ)
Vapor Density	N/A	
Specific Gravity	1.3	(H <sub>2</sub> O = 1)
Water Solubility	Complete	
Solubility in other solvents	N/A	
Partition Coefficient	N/A	
Auto-ignition Temperature	N/A	
Decomposition Temperature	N/A	
Kinematic Viscosity	N/A	
Dynamic Viscosity	N/A	
Explosive Properties	N/A	
Oxidizing Properties	N/A	

## 10. STABILITY AND REACTIVITY

### **Reactivity**

Mixing with incompatibles can release heat.

### **Chemical Stability**

Stable under normal conditions.

### **Possibility of Hazardous Reactions**

Stable under normal conditions

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### **Conditions to Avoid**

Contact with strong acids, amphoteric metals, mineral acids, excessive heat, and direct sunlight.

### **Incompatible Materials**

Strong mineral acids. Strong acids. Amphoteric metals.

### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Corrosive Liquid
<b>Eye Contact</b>	Can cause severe burns to eyes and surrounding tissue.
<b>Skin Contact</b>	Can cause severe burns to skin.
<b>Inhalation</b>	Can cause severe burns to nose, throat, and respiratory system.
<b>Ingestion</b>	Can cause serious damage to mouth, throat, and stomach.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
POTASSIUM HYDROXIDE 1310-58-3	273 mg/kg (Rat)	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

### Information on physical, chemical and toxicological effects

<b>Symptoms</b>	Can cause severe burns to skin and eyes. May cause blindness without immediate first aid. May cause irritation to respiratory system if concentrated vapors are inhaled. Harmful if swallowed. Can cause serious burns to mouth, throat, and stomach.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Carcinogenicity</b>	The table below indicated whether each agency has listed any ingredient as a carcinogen. However, the product as whole has not been tested. Group 3 IARC components are "not classifiable as human carcinogens".
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Chemical Name	ACGIH	IARC	OSHA
NONE	N/A	N/A	N/A

*IARC (International Agency for Research on Cancer)*  
N/A

### Numerical Measures of toxicity

N/A

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to marine life.

**Component Information**

Chemical Name	Algae/ Aquatic Plants	Fish	Toxicity to microorganisms	Crustacea
POTASSIUM HYDROXIDE 1310-58-3	N/A	LC50 = 80mg/L	N/A	N/A

**Persistence/Degradability**

N/A

**Bioaccumulation**

N/A

**Mobility**

N/A

**Other Adverse Effects**

N/A



### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

**Disposal of Wastes** Dispose of contents in accordance with federal, state, and local laws.

**Contaminated Packaging** Dispose of container in accordance with federal, state, and local laws.

### 14. TRANSPORT INFORMATION

#### DOT / IMDG / TDG:

UN1814, CORROSIVE LIQUIDS, N.O.S., 8, PG II  
(POTASSIUM HYDROXIDE SOLUTION)

### 15. REGULATORY INFORMATION

#### International Inventories

Not Determined

#### US Federal Regulations

This material, as supplied, contains one or more substances regulated as a hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
POTASSIUM HYDROXIDE 1310-58-3	N/R	N/R	1,000 lbs.
-	-	-	-
-	-	-	-

**EPA CERCLA RQ:** NO

**EPA REGISTERED:** NO

**OSHA HAZARDOUS:** YES

**SARA 311/312 HAZARDS:** ACUTE

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal regulations, Part 372

#### US State Regulations

##### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**16. OTHER INFORMATION**

<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	1	0	0	B

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 Revision Date                5/24/2015  
 Revision Note                Pre-pared by RD

**Disclaimer**

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**End of Safety Data Sheet**