

## 1. IDENTIFICATION

**Product Name** Potassium Hydroxide  
**Recommended use** Fertilizer  
**Supplier** Valudor Products, LLC  
 179 Calle Magdalena Suite 100  
 Encinitas CA 92024  
 (760)-635-8500  
**Emergency Telephone** 800-535-5053 (Infotrac)

## 2. HAZARD IDENTIFICATION

### Classification

This product is considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Acute Tox. (Oral)	Category 4
Skin Corrosion/Irritation	Category 1
Eye Damage/Irritation	Category 1
Corrosive to metals	Category 1

### Label Elements

#### GHS Pictograms



#### Signal Word Hazard Statements

**Danger**  
 May be corrosive to metals  
 Harmful if swallowed  
 Causes severe skin burns and eye damage

#### Precautionary Statements -Prevention

Keep only in original container  
 Wash thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dusts or mists  
 Wear protective gloves/protective clothing/eye protection/face protection

#### -Response

Absorb spillage to prevent material damage  
 Wash contaminated clothing before reuse.  
 Immediately call a poison center/doctor  
**Skin** If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.  
**Inhalation** If inhaled: Remove person to fresh air and keep comfortable for breathing  
**Ingestion** If swallowed: Rinse mouth. Do NOT induce vomiting  
 If swallowed: Call a poison center/doctor if you feel unwell

Eye	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
-Storage	Store in corrosive resistant container with a resistant inner liner
-Disposal	Store locked up Dispose of contents in accordance with local/regional/national regulations
Hazards not other classified	None

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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**Substance**

Chemical Name	Potassium Hydroxide
Formula	KOH
Molecular weight	56.11 g/mol
Cas No.	1310-58-3
Concentration	>= 95 %

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### 4. FIRST-AID MEASURES

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**First Aid Measures**

General Advice	If exposed or concerned get medical advice. Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Seek immediate medical attention
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediately remove all contaminated clothes and shoes. Wash clothing and shoes before reuse. Seek immediate medical attention
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	<b>Do not induce vomiting.</b> Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention

**Most important symptoms/effects, acute and delayed**

Symptoms	No information available
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### 5. FIRE-FIGHTING MEASURES

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**Suitable extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable Extinguishing Media No information available

**Specific Hazards Arising from the chemical**

Can react with metals to produce hydrogen gas.

**Hazardous combustion products** Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to:  
Potassium oxides

**Protective equipment and precautions for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures**

**Personal precautions** Avoid contact with eyes, skin and clothing. Do not breathe dust/fume/vapor/spray. Evacuate personnel to safe areas. Use personal protection recommended in Section 8. Ensure adequate ventilation.

**Methods and materials for containment and cleanup**

**Methods for clean-up** Collect spillage. Keep unauthorized personnel away. Keep in suitable closed containers for disposal

**Environmental Precautions** Prevent entry into waterways or sewers. Avoid release to the environment.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Handle in a well-ventilated environment. Do not breathe vapors / spray / mist / fume. Avoid contact with skin, eyes or clothing. Wear personal protective equipment in section 8. Wash contaminated clothing before reuse. Wash thoroughly after handling. Wash before breaks and at the end of the workday. Do not eat, drink or smoke when using this product. Clean equipment and work area regularly.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Keep containers closed and labeled when not in use. Store locked up. Store in corrosive resistant container. Store under inert gas. Air sensitive.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH	NIOSH	OSHA
Potassium Hydroxide 1310-58-3	2 mg/m3	2 mg/m3	-

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

**Personal Protective Equipment**

<b>Eye/face protection</b>	Tightly fitting safety goggles. If dusting or splashing is possible wear face shield.
<b>Skin protection</b>	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls. Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin.
<b>Respiratory protection</b>	If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

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## 9. PHYSICAL and CHEMICAL PROPERTIES

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<b>Appearance</b>	White
<b>Physical state</b>	Solid
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No information available
<b>pH</b>	13.5 (5.611 g/l @ 25C)
<b>Melting point / freezing point</b>	No Information available
<b>Boiling point / Boiling range</b>	No Information available
<b>Flash point</b>	No information available
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	No information available
<b>Flammability or explosive limits</b>	
<b>Upper</b>	No information available
<b>Lower</b>	No information available
<b>Vapor pressure</b>	No Information available
<b>Vapor density</b>	No information available
<b>Specific Gravity</b>	2.04 g/cm <sup>3</sup> at 20C
<b>Solubility in water</b>	Soluble
<b>Partition coefficient</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	No information available

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## 10. STABILITY AND REACTIVITY

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<b>Reactivity</b>	None known under normal conditions. Exothermic dissolution process.
<b>Chemical stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of hazardous reactions</b>	None known under normal processing.
<b>Conditions to avoid</b>	Exposure to moisture, incompatible materials.
<b>Incompatible materials</b>	Contact with water, acids, flammable liquids and organic

halogen compounds, especially trichloroethylene, may cause fire or explosion. Contact with nitromethane and other similar nitro compounds cause formation of shock sensitive salts. Contact with metals such as aluminum, tin and zinc causes formation of flammable hydrogen gas.

**Hazardous decomposition products** Hazardous combustion can lead to the release of irritating gases and vapors.

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## 11. TOXICOLOGICAL INFORMATION

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### Information on likely routes of exposure

<b>Skin contact</b>	Causes serious skin damage
<b>Eye contact</b>	Causes serious eye damage
<b>Inhalation</b>	Harmful if inhaled
<b>Ingestion</b>	Harmful if swallowed

### Symptoms related to the physical chemical and toxicological characteristics

No information available

### Delayed and immediate effects and also chronic effects form short and long-term exposure

<b>Skin damage/irritation</b>	Causes severe skin burns
<b>Eye damage/irritation</b>	Causes serious eye damage
<b>Sensitization</b>	Not classified
<b>Mutagenic effects</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive toxicity</b>	Not classified
<b>STOT – single exposure</b>	Not classified
<b>STOT – repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	Not classified

### Acute Toxicity

### Component information

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium Hydroxide	1310-58-3	273 mg/kg	-	-

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** Should not be released to environment

Component	Freshwater Fish	Freshwater Algae	Water Flea
Potassium Hydroxide 1310-58-3	LC50: 80 mg/L/96 h (Gambusia affinis)	-	-

**Persistence and degradability** No information available

**Bioaccumulative potential** No information available

**Mobility in soil** No information available

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** Processing, use, or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

**14. TRANSPORT INFORMATION**

<b>DOT</b>	Regulated
<b>UN-No</b>	1813
<b>Proper Shipping Name</b>	Potassium Hydroxide, Solid
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>IATA</b>	Regulated
<b>UN-No</b>	1813
<b>Proper Shipping Name</b>	Potassium Hydroxide, Solid
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>IMDG</b>	Regulated
<b>UN-No</b>	1813
<b>Proper Shipping Name</b>	Potassium Hydroxide, Solid
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Listed
<b>DSL</b>	Listed

**US Federal Regulations**

**TSCA section 12(b) Export Notification**

Not regulated

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Not applicable

**SARA 311/312 Hazard Categorization**

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Pressure	No

**Product name:** Potassium Hydroxide

**Date of Issue:** 2/2/2021

Reactivity No

**SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Not Applicable

**CWA (Clean Water Act)**

Not Applicable

**US State Regulations**

**California Proposition 65**

This product does not contain any proposition 65 chemicals

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**16. OTHER INFORMATION**

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**NFPA Ratings**      Health: 3      Flammability: 0      Reactivity: 1

Creation Date: 2/2/2021

Revision Date:

Revision Number: 2

Revision Information: Creation

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text