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CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

### Section I - Product Identification

An aqueous solution of potassium hydroxide.

### Section II - Hazards Identification

Danger: Causes severe skin burns and eye damage. Wash thoroughly after handling. Wear protective clothing, eye and face protection. If swallowed, rinse mouth with water but do not induce vomiting. Immediately contact a poison control center. Remove contaminated clothing and wash before reuse. Rinse skin with water.

#### Safety Ratings

*Health:* Hazardous *Flammability:* None *Reactivity:* None *Contact:* Hazardous  
Recommended safety equipment: safety goggles, lab coat and proper gloves  
*Storage:* General storage

#### NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 0



#### Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other strong bases.

*Inhalation:* Irritating to mucous membranes. Can cause burns and pulmonary edema.

*Ingestion:* Ingestion can cause burns to throat esophagus and stomach.

*Skin contact:* Irritating. Prolonged contact can cause yellowing and burning of skin.

*Eye contact:* Corrosive. Causes permanent eye injury.

*Chronic Exposure:* Unknown

*Aggravation of preexisting conditions:* Unknown

### Section III- Composition/Information on Components

Ingredients	CAS#	OSHA Pel	ACGIH TLV	%
Potassium hydroxide	1310-58-3	2 mg/m3 ceiling	2 mg/m3 ceiling	20% w/v

### Section IV - First Aid Measures

*Inhalation:* Because of the low vapor pressure, inhalation is unlikely to be a problem.

*Ingestion:* Do not induce vomiting. If the victim is conscious administer large amounts of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get immediate medical advice.

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## Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Flammable:* Not applicable.

*Explosion:* Not Normally an explosion hazards.

*Fire Extinguishing Media:* Any means suitable for surrounding fire.

*Special information:* Pyrolysis will release corrosive oxides.

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## Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

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## Section VII - Handling and Storage

Store in a closed container, protected from freezing.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are recommended as part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 101 °C

*Vapor pressure (mm Hg):* 18 @ 20 °C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* A clear colorless liquid.

*Density:* 1.138 g/ml @ 22.5 °C

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Excessive cold/heat and light.

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## Section XI - Toxicological Information

Potassium hydroxide is corrosive to skin.

Cancer lists

Ingredient

Known Carcinogenicity?

Anticipated?

IARC Category

Potassium Hydroxide

no

no

none

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## Section XII - Ecological Information

Environmental Fate: Biodegradable

Environmental Toxicity: None

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## Section - XIII Disposal Considerations

Usually not restricted. Typically the pH of the sewage outflow from a building is restricted to Between 4 and 10. However, local governments have wide latitude to restrict the amounts of anything that may be flushed down the drain. Dispose of contents and container in accordance with all government regulations

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**Section - XIV Transportation Information**

DOT Shipping name: Potassium hydroxide solution.

Hazard Class: 8

Packing Group: II

DOT Hazard label: Corrosive

UN Identification Number: UN1814

Bottles smaller than 32 Fl. Oz. are eligible to be shipped under ORM-D or limited quantity exemptions [49 CFR section 173.154(b) and 173.154(C)].

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**Section - XV Regulatory Information****Chemical Inventory Status**

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<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Potassium Hydroxide	Yes	<u>Yes</u>

**Federal, State and International Regulations**

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<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Potassium Hydroxide	No	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes, Chronic: Yes, Flammable: No

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**Section - XVI Other Information**

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Revision Date: Jan. 12, 2018