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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 and methyl sulfoxide.

#### **Section II - Hazards Identification**

Overview: Corrosive to skin, eyes and mucous membranes.

#### **Safety Ratings**

Health: Hazardous Flammability: None Reactivity: None Contact: Hazardous

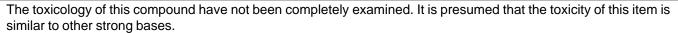
Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: General storage

NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 0

#### **Potential Health Effects**



*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. May cause 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 Methyl sulfoxide	1310-58-3 67-68-5	2 mg/m3 ceiling	2 mg/m3 ceiling	20% w/v 30% v/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.





### **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.

#### Section VI - Accidental Release Measures

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

# Section VII - Handling and Storage

Store in a closed container, protected from freezing.

### 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 required.

Eye Protection: Laboratory safety goggles or similar products are required..

### 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: 1.2 g/ml

Evaporation Rate (water = 1): 1

Solubility: Infinitely miscible with water

#### 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.

# Section XI - Toxicological Information

Corrosive to skin and eyes.

Cancer lists

<u>Ingredient</u> <u>Known Carcinogenicity?</u> <u>Anticipated?</u> <u>IARC Category</u>

Potassium Hydroxide no no none Dimethyl sulfoxide no no none

#### **Section XII - Ecological Information**

Environmental Fate: Biodegradable. Environmental Toxicity: None.

#### **Section XIII - Disposal considerations**

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

# **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)].

# Section XV - Regulatory Information

# **Chemical Inventory Status**

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

### Federal, State and International Regulations

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

### Section XVI - Other Information

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

Revision Date: Apr. 21, 2014