MSDS For KOH, 20% w/v with DMSO
Catalog # 765A

Medical Chemical Corp.
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Customer Service: Phone (310)787-6800
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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

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. 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	1310-58-3	2 mg/m3 ceiling	2 mg/m3 ceiling	20% w/v
Methyl sulfoxide	67-68-5	----------	----------	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^{o}C
Vapor pressure (mm Hg): 18 @ 20^{o}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

Ingredient	*Known Carcinogenicity?*	*Anticipated?*	*IARC Category*
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

Ingredient	TSCA	EC
Potassium Hydroxide	Yes	Yes
Dimethyl Sulfoxide	Yes	Yes

Federal, State and International Regulations

	SARA 302		SARA 313		RCRA	TSCA	
Ingredient	RQ	TPQ	List	Category	261.33	8(D)	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.

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