

M S D S**Material Safety Data Sheet**

24 HOUR EMERGENCY
TELEPHONE NUMBER
CALL CHEMTREC
1-800-424-9300

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Potassium Hydroxide, 20%

Section I: IDENTIFICATION

Product Name: **Potassium Hydroxide 20%**
Azer Scientific Catalog Number(s): ES666-16

Section II: INGREDIENTS

<i>Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL</i>	NFPA
Potassium Hydroxide 10%	1310-58-3	NR	Health 3 Flammability 0 Reactivity 2

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	212°F	<i>Specific Gravity (H₂O = 1):</i>	~1.1
<i>Vapor Pressure mm Hg/20 °C:</i>	NR	<i>Percent Volatile by Vol:</i>	Minimal
<i>Vapor Density (Air 1:1):</i>	NR	<i>Evaporation Rate (ether = 1):</i>	<1
<i>Solubility in H₂O:</i>	Complete	<i>Appearance & Odor:</i>	Clear liquid/odorless

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: NA *Flammable Limits:* LEL, NA UEL, NA
Extinguishing Media: Water spray, dry chemical, CO₂ and foam
Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.
Unusual Fire & Explosion Hazards: None known.

Section V: REACTIVITY

Stability: Stable *Material to Avoid:* Strong acids etc.
Hazardous Decomposition or Byproducts: Water/corrosive vapor
Hazardous Polymerization: Does not occur *Conditions to Avoid:* Excessive heat

Section VI: HEALTH HAZARDS

NOTE: Product as offered in liquid form, is not expected to present unusual health hazards when following good laboratory practices, however, product is corrosive.

Routes of Entry: Inhalation, Skin and Ingestion

Acute: Vapors will cause eyes, skin and respiratory irritation or burning.

Chronic: May cause burning to eyes, skin and intestinal tract, gastrointestinal disturbances, convulsions, circulatory problems, respiratory system and damage kidneys .

Carcinogenicity: Not classified as a human carcinogen.

Signs/Symptoms of Exposure: Skin and respiratory irritation.

*******Emergency First Aid*******

Skin: Remove contaminated clothing. Wash affected area with soap and water.
Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persists.
Ingestion: Rinse mouth thoroughly with water, provided person is conscious and contact a physician.
Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Isolate the spill area with sand, or other absorbent material. Place all contaminated material in a closed container for disposal. Neutralize with dilute acetic acid

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Use normal precautions for corrosive liquids. Avoid excessive heat.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not normally required if used in a ventilated area.

Ventilation: In ventilated areas, mechanical exhaust is sufficient.

Protective Gloves: Chemical resistant *Eye Protection:* Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

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