

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

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

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**Sodium Hydroxide 10%****Section I: IDENTIFICATION**

*Product Name:* **Sodium Hydroxide 10%**  
*Azer Scientific Catalog Number:* ES672-32

**Section II: INGREDIENTS**

<i>Component(s):</i>	<i>CAS#</i>	<i>OSHA PEL, ACGIH TLV/STEL</i>	<b>NFPA</b>
Sodium Hydroxide 10%	1310-73-2	NR	Health 3 Flammability 0 Reactivity 0

**Section III: PHYSICAL DATA**

<i>Boiling Point:</i>	~212°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~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 H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; 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, CO<sub>2</sub> 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  
*Hazardous Decomposition or Byproducts:* Oxides, carbonates, water  
*Hazardous Polymerization:* Does not occur

*Conditions to Avoid:* Excessive heat

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## **Section VI: HEALTH HAZARDS**

**NOTE: Product is corrosive.**

**Target Organs: eyes, skin, respiratory and gastrointestinal tracts.**

*Routes of Entry:* Inhalation, Skin and Ingestion

*Acute:* Vapors will cause eyes, skin and respiratory irritation and burning. Will cause burning to eyes, skin and intestinal tract, gastrointestinal disturbances, convulsions, circulatory problems, and respiratory system.

*Chronic:* None Known

*Carcinogenicity:* Not classified as a human carcinogen.

*Signs/Symptoms of Exposure:* Burning eyes, skin/tissue destruction and respiratory irritation.

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## **Section VI: HEALTH HAZARDS**

*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 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.

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## **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.

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## **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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