

MATERIAL SAFETY DATA SHEET

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Section I: IDENTIFICATION

Product Name: Potassium Hydroxide 50%
(Corrosive)

Date Prepared: 10/13/10

Item Number: 400731

Emergency Phone Infotrac: 800-535-5053

Section II: INGREDIENTS

<i>Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL</i>	NFPA	
Potassium Hydroxide 50%	1310-58-3	NR	Health	3
			Flammability	0
			Reactivity	0

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~216°F	<i>Specific Gravity (H₂O = 1):</i>	~1.5
<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, aluminum
Hazardous Decomposition or Byproducts: Oxides
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. Product is very corrosive.

Routes of Entry: Inhalation, Skin and Ingestion
Acute: Vapors will cause eyes, skin and respiratory burning.
Chronic: Will 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: Burning eyes, skin 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 immediately.

Ingestion: Rinse mouth with water thoroughly, 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.

Section IX: Transportation

US DOT 49 CFR 172.101: Proper Shipping Name: Potassium Hydroxide, solution; UN No: UN1814; Hazard Class: 8;
Packing Group: II; Labeling: 8; DOT RQ (lbs): 1000 lbs;

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Astraldiagnosics shall not be held liable for any damage resulting from handling or contact with this product.

HealthLink
3611 St. Johns Bluff Road South, Suite 1, Jacksonville, FL 32224
904-996-7758