

## MATERIAL SAFETY DATA SHEET

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### Section I: IDENTIFICATION

*Product Name:* **Sodium Hydroxide 50 - 88%, V/V**  
(10 Molar ~56%)

*Date Prepared:* 03/19/03  
*Item Number:* 400549, 400711  
*Emergency Phone Infotrac:* 800-535-5053

### Section II: INGREDIENTS

<i>Component(s):</i>	<i>CAS#</i>	<i>OSHA PEL, ACGIH TLV/STEL</i>	<b>NFPA</b>
Sodium Hydroxide 50%W/V (Corrosive Liquid)	1310-73-2	NR	<b>Health</b> 3 <b>Flammability</b> 0 <b>Reactivity</b> 0

### Section III: PHYSICAL DATA

*Boiling Point:* ~212°F  
*Vapor Pressure mm Hg/20 °C:* NR  
*Vapor Density (Air 1:1):* NR  
*Solubility in H<sub>2</sub>O:* Complete

*Specific Gravity (H<sub>2</sub>O = 1):* >1  
*Percent Volatile by Vol:* Minimal  
*Evaporation Rate (ether = 1):* <1  
*Appearance & Odor:* 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

### 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. Solution will burn 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 persist.

**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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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.

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