

MATERIAL SAFETY DATA SHEET

Section I: IDENTIFICATION

Product Name: Potassium Hydroxide 5 to 20%

Date Prepared: 02/15/02 *Date Revised*:* 08/09/06
Item Number: 400504, 400511, 400520, 400530,
400531, 400534, 400535, 400536, 1815, 400510,
400648
Emergency Phone Infotrac: 800-535-5053

Section II: INGREDIENTS

| <i>Component(s):</i> | <i>CAS#</i> | <i>OSHA PEL, ACGIH TLV/STEL</i> | <i>NFPA</i> | |
|-------------------------------|-------------|---------------------------------|---------------------|---|
| Potassium Hydroxide 5% to 20% | 1310-58-3 | NR | <i>Health</i> | 3 |
| | | | <i>Flammability</i> | 0 |
| | | | <i>Reactivity</i> | 0 |

Section III: PHYSICAL DATA

Boiling Point: ~212°F *Specific Gravity (H₂O = 1):* ~1 to 1.1
Vapor Pressure mm Hg/20 °C: NR *Percent Volatile by Vol:* Minimal
Vapor Density (Air 1:1): NR *Evaporation Rate (ether = 1):* <1
Solubility in H₂O: Complete *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, 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
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, however 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: 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 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.

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.

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

*Changed due to customer request. No substantial changes since prepared date.

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