

## MATERIAL SAFETY DATA SHEET

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### Section I: IDENTIFICATION

*Product Name:* Chlorazol Black E

*Date Prepared:* 06/23/03 *Date Revised\*:* 09/26/06  
*Item Number:* 400308  
*Emergency Phone Infotrac:* 800-535-5053

### Section II: INGREDIENTS

<i>Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL</i>	<i>NFPA</i>	
Methyl Sulfoxide <12%	67-68-5	NA	<b>Health</b>	3
Potassium Hydroxide 5%	1310-58-3	NR	<b>Flammability</b>	0
Chlorazol Black E < 1%	1937-37-7	NA	<b>Reactivity</b>	0

### Section III: PHYSICAL DATA

*Boiling Point:* ~200°F *Specific Gravity (H<sub>2</sub>O = 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 H<sub>2</sub>O:* Complete *Appearance & Odor:* Dark blue liquid/slight bitter odor

### 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:* Product contains a combustible liquid.

### Section V: REACTIVITY

*Stability:* Stable *Material to Avoid:* Strong acids  
*Hazardous Decomposition or Byproducts:* Oxides of carbon, nitrogen, sulfur  
*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 slightly 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 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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\*Change due to customer request. No substantial changes since prepared date.

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