

## MATERIAL SAFETY DATA SHEET

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### Section I: IDENTIFICATION

*Product Name:* **COPPER SULFATE**  
**Specific Gravity 1.053**

*Date Prepared:* 09/01  
*Item Number(s):* 5597, 5598, 5599  
*Emergency Phone:* 800-424-9300

### Section II: HAZARDOUS INGREDIENTS

| <i>Hazardous Component(s):</i> | <i>CAS Number</i> | <i>OHSA PEL, ACGIH TLV/STEL</i> | <i>NFPA</i>                                |
|--------------------------------|-------------------|---------------------------------|--|
| <b>Copper Sulfate ~8%</b>      | 7740-50-8         | 1mg/m3                          | Health 1<br>Flammability 0<br>Reactivity 0 |

### Section III: PHYSICAL DATA

|                                      |          |   |                      |
|--------------------------------------|----------|---|----------------------|
| <i>Boiling Point:</i>                | ~212°F   | <i>Specific Gravity (H<sub>2</sub>O = 1):</i> | ~1.053               |
| <i>Vapor Pressure mm Hg/20°C:</i>    | NE       | <i>Percent Volatile by Vol:</i>               | NA                   |
| <i>Vapor Density (Air 1:1):</i>      | NE       | <i>Evaporation Rate (ether = 1):</i>          | >1                   |
| <i>Solubility in H<sub>2</sub>O:</i> | Complete | <i>Appearance &amp; Odor:</i>                 | Blue liquid/odorless |

### Section IV: FIRE/EXPLOSION HAZARD

*Flash Point:* Non-Flammable      *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:* May give-off toxic fumes under fire conditions.

### Section V: REACTIVITY

*Stability:* Stable      *Material to Avoid:* Some metallic oxides/metals (not in the concentration present)

*Hazardous Decomposition or Byproducts:* Oxides of carbon, nitrogen

*Hazardous Polymerization:* Does not occur      *Conditions to Avoid:* Normal laboratory care

### Section VI: HEALTH HAZARDS

*Routes of Entry:* Inhalation, Skin and Ingestion

*Acute/Chronic:* In given concentration, product is not expected to cause health hazards when utilizing good laboratory practices. Slightly corrosive to the eyes and skin. Poisonous if swallowed.

*Carcinogenicity:* Not classified as a human carcinogen.

*Signs/Symptoms of Exposure:* Irritation to the mucous membrane, nose/throat, drowsiness and headache etc.

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### **Section VI: HEALTH HAZARDS**

*Emergency First Aid:*

**Skin:** Remove contaminated clothing and change. Wash affected skin area with soap and water.

**Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persist.

**Ingestion:** Rinse mouth thoroughly 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.

*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:* Normal laboratory care

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### **Section VIII: CONTROL MEASURES**

*Respiratory Protection:* Not normally required.

*Ventilation:* 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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