

**SF40005**

**1. Identification of Substance:**

- **Other means of identification:** Catalog Number SF40005
- **GHS product identifier:** FluoMute Autofluorescence Reducing Reagent
- **Application of the substance / the preparation:** For Research Use Only
- **Manufacturer/Supplier:**  
Neuromics  
5325 West 74th Street  
Suite 8  
Edina, MN 55439  
1-866-350-1500
- **For product related questions call:** 1-866-350-1500. International call: 952-374-6161.
- **Emergency information:** 1-866-350-1500 or 612-801-1007 (M-F 8AM-6PM)

**2. Hazards Identification:**

- **Classification:** CAS No. 7758-98-7: non-viscous copper sulfate

HMIS Rating:  
Health hazard: 2  
Flammability: 0  
Physical Hazard: 0



NFPA Rating:  
Health hazard: 2  
Fire hazard: 0  
Reactivity hazard: 0

- **Signal Word:** Warning
- **Hazard Statement(s):** Copper sulfate is known to have acute toxicity properties. It can cause irritation of unprotected eyes and skin and is harmful if swallowed. It very toxic to aquatic life with long lasting adverse effects. Should never be discarded to contaminate the environment. Avoid contact with mouth and inhaling the vapors.
- **Precautionary Statement(s):** P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273: Avoid release to the environment. P280 Wear eye protection/ face protection. P280 Wear protective gloves. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P391 Collect spillage. P501 Dispose of contents/ container to an approved waste disposal plant

**3. Information on Ingredients:**

Contains	CAS No.	Content %
Copper Sulfate	7758-98-7	>0.5-<3%

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**4. First Aid Measures:**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for 15 or more minutes under running water. Then consult a doctor.
- **After swallowing:** Rinse mouth with water. Immediately seek medical attention and appropriate follow-up.

**5. Fire Fighting Measures:**

- **Suitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Specific hazards arising from the chemical:** Dangerous decomposition is not anticipated.
- **Protective equipment:** Wear appropriate protective clothing and a self-contained breathing apparatus if necessary.

**6. Accidental Release Measures:**

- **Person-related safety precautions:** Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
- **Measures for environmental protection:** Prevent further spillage or leakage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- **Measures for containment and cleaning:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Dispose contaminated material as waste according to item 13.

**7. Handling and Storage:**

- **Precautions for safe handling:** Store in a well ventilated place. Keep container tightly closed. Avoid contact with skin and eyes.
- **Information about protection against explosions and fires:** Normal measures for preventive fire protection.
- **Conditions for safe storage:** Keep locked up. Store in a cool place. Keep container tightly closed in a dry and well ventilated place.

**8. Exposure Controls and Personal Protection:**

- **Components:** Copper sulfate
- **Appropriate engineering controls:** Follow usual standard laboratory practices. The following personal protection is recommended:
  - **Respiratory Protection:** Respiratory Protection not required. For nuisance exposures use respirators and components approved under appropriate government standards.
  - **Hand Protection:** Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
  - **Eye Protection:** Use equipment for eye protection tested and approved under appropriate government standards.
  - **Skin and Body Protection:** Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
  - **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

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**9. Physical and Chemical Properties:**

- **Appearance:** blue-color
- **Odor:** orderless
- **Odor threshold:** Not available
- **pH:** Not available
- **Melting point/freezing point:** Not available.
  - **Boiling point/Boiling range:** Not available.
- **Flash point:** Not available.
- **Evaporation rate:** Undetermined.
- **Flammability:** Not available.

**Upper/lower flammability or explosive limits:** Not available.

**Vapor pressure/density:** Not available.

**Relative Density:** Not available.

**Solubility in/Miscibility with Water:** Not available.

**Partition coefficient: noctanol/water:** Not available

**Auto igniting:** Product is not self igniting.

**Decomposition temperature:** Not available.

**Viscosity:** Not available.

**10. Stability and Reactivity:**

- **Reactivity:** No data available
- **Chemical Stability:** Stable under normal ambient and storage and handling temperatures.
- **Thermal:** decomposition/conditions to be avoided: No decomposition if used according to specifications.
- **Incompatible materials to be avoided:** Should not be put in contact with strong oxidizing agents, powdered metals, hydroxylamine, magnesium.
- **Hazardous decomposition products:** Hazardous decompositions formed under fire conditions: hazardous oxides of sulfur and copper

**11. Toxicological Information:**

- **Acute toxicity:** LD50 Oral - Rat - 482 mg/kg Inhalation: No data available Dermal: No data available LD50 Intraperitoneal - Rat - 20 mg/kg LD50 Subcutaneous - Rat - 43 mg/kg LD50 Intravenous - Rat - 48.9 mg/kg
- **Skin corrosion / irritation:** May be harmful if absorbed through the skin. May cause skin irritation.
- **Serious eye damage / irritation:** May cause eye irritation.
- **Respiratory or skin sensitization:** No sensitizing effects known.
- **Germ cell mutagenicity:** Not known.
- **Carcinogenicity:** Carcinogenicity - Chicken - Parenteral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Endocrine: Tumors. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- **Reproductive toxicity:** No toxic effect known.
- **STOT-single exposure:** Data not available
- **STOT-repeated exposure:** Data not available.
- **Aspiration hazard:** May be harmful if inhaled. May cause respiratory tract irritation.
- **Additional Information:** RTECS: GL8800000

**12. Ecological Information:**

- **Ecotoxicity:** Harmful to aquatic life. LC50, 96 Hrs, Fish *Lepomis macrochirus* - 0.68 mg/L; EC50, 48 Hrs, *Daphnia pulex* - 4.2 mg/L
- **Persistence and degradability:** No data available
- **Bioaccumulative potential:** No data available
- **Mobility in soil:** No data available.
- **Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

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**13. Disposal Considerations:**

- **Disposal methods:** Dispose of waste in accordance to applicable national, regional, or local regulations.
- **Contaminated packaging:** Dispose in the same manner as unused product.
- **Special precautions:** Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilt material to soil, waterways, drains and sewers.

**14. Transport Information:**

- **DOT (US) UN number:** 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Copper sulphate) Reportable Quantity (RQ): 10 lbs Marine pollutant:yes Poison Inhalation Hazard: No
- **IMDG:** UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulphate) Marine pollutant:yes
- **IATA:** UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Copper sulfate)

**15. Regulations:****US Federal and State Regulations**

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Copper sulfate CAS-No. 7758-98-7 Revision Date 1993-04-24

SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components Copper sulfate CAS-No. 7758-98-7 Revision Date 1993-04-24 Pennsylvania

Right To Know Components Copper sulfate CAS-No. 7758-98-7 Revision Date 1993-04-24 New Jersey Right To Know

Components Copper sulphate CAS-No. 7758-98-7 Revision Date 1993-04-24 California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. Other Information:**

- **Notice to reader:** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.