

Material Safety Data Sheet (MSDS)

Product Name: Copper Sulfate 24% Powder Feed Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Product Identification

- **Product Name:** Copper Sulfate 24% Powder Feed Grade
- **Synonyms:** Cupric Sulfate, Blue Vitriol
- **CAS Number:** 7758-99-8
- **EINECS Number:** 231-847-6
- **Recommended Use:** Feed additive for livestock nutrition
- **Restrictions:** Not for human consumption

2. Hazard Identification

- **GHS Classification:**
 - Acute Toxicity (Oral) – Category 4
 - Eye Damage/Irritation – Category 2A

- Skin Irritation – Category 2
 - Aquatic Toxicity (Chronic) – Category 1
 - **Signal Word:** Warning
 - **Hazard Statements:**
 - Harmful if swallowed
 - Causes skin and eye irritation
 - Very toxic to aquatic life with long-lasting effects
 - **Precautionary Statements:**
 - Avoid ingestion, inhalation, and contact with skin or eyes
 - Wear protective gloves, clothing, and eye/face protection
 - Wash hands thoroughly after handling
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3. Composition / Information on Ingredients

- **Active Ingredient:** Copper Sulfate – 24%
 - **Other Ingredients:** Inert fillers – 76%
 - **Chemical Formula:** $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
 - **Impurities / Additives:** None of significance
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4. First Aid Measures

- **Ingestion:** Rinse mouth; do **not** induce vomiting. Seek medical attention immediately.
 - **Inhalation:** Move to fresh air; keep at rest. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse cautiously with water for 15 minutes. Seek medical attention.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂
 - **Unsuitable Extinguishing Media:** None known
 - **Specific Hazards:** May release toxic fumes of copper oxides if heated to decomposition
 - **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing
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6. Accidental Release Measures

- **Personal Precautions:** Use protective equipment, avoid dust formation
 - **Environmental Precautions:** Prevent contamination of water sources
 - **Methods for Cleanup:** Sweep up carefully, place in suitable container for disposal; avoid creating dust
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7. Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing; do not inhale dust
 - **Storage:** Store in a cool, dry, ventilated area away from incompatible materials
 - **Packaging Material:** Original sealed containers
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8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established for feed grade
 - **Engineering Controls:** Adequate ventilation, dust control measures
 - **Personal Protective Equipment:**
 - Gloves: Chemical-resistant
 - Eye Protection: Safety goggles
 - Respiratory Protection: Dust mask or respirator
 - Protective Clothing: Long-sleeved, impervious clothing
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9. Physical and Chemical Properties

- **Appearance:** Blue crystalline powder
 - **Odor:** Odorless
 - **pH:** 4–6 (1% aqueous solution)
 - **Melting Point:** Decomposes >110°C
 - **Solubility:** Soluble in water, insoluble in alcohol
 - **Specific Gravity:** 2.284 g/cm³
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10. Stability and Reactivity

- **Chemical Stability:** Stable under recommended storage conditions
 - **Conditions to Avoid:** Moisture, excessive heat
 - **Incompatible Materials:** Strong bases, strong reducing agents, combustible materials
 - **Hazardous Decomposition Products:** Copper oxides, sulfur oxides
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11. Toxicological Information

- **Acute Toxicity:** Harmful if swallowed
 - **Skin Irritation:** Causes irritation
 - **Eye Irritation:** Causes serious eye irritation
 - **Chronic Effects:** Prolonged exposure may affect liver and kidneys
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12. Ecological Information

- **Ecotoxicity:** Very toxic to aquatic life
 - **Persistence and Degradability:** Non-biodegradable
 - **Bioaccumulative Potential:** Low
 - **Mobility:** Soluble in water, can contaminate water bodies
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13. Disposal Considerations

- **Waste Disposal Methods:** Dispose of in accordance with local, regional, and national regulations
 - **Contaminated Packaging:** Empty containers must be disposed of properly or recycled
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14. Transport Information (Detailed)

- **UN Number:** 3077
 - **UN Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (Copper Sulfate)
 - **Transport Hazard Class:** 9 – Miscellaneous dangerous substances and articles
 - **Packing Group:** III – Low danger
 - **Environmental Hazards:** Yes – Marine pollutant
 - **Special Precautions for Transport:**
 - Avoid release into the environment
 - Secure container to prevent shifting
 - Transport in upright position and avoid moisture
 - Emergency Response Guide: Follow ERG guide for Class 9 substances
 - **Modes of Transport:**
 - **Road (ADR/RID):** UN 3077, Class 9, PG III
 - **Sea (IMDG):** UN 3077, Class 9, PG III, Marine Pollutant
 - **Air (IATA):** UN 3077, Class 9, PG III
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15. Regulatory Information

- **Regulatory Status:** Feed additive, not for human consumption
- **Applicable Laws:** Complies with Indian Feed Regulations, 2024
- **Labeling Requirements:** Hazard pictogram (Exclamation mark & Environment), precautionary statements

16. Other Information

- **Disclaimer:** The information in this MSDS is believed to be accurate and reliable. Users must verify suitability for their specific application. Raw Pharma Biz is not responsible for misuse.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.