



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Copper Sulfate
- Product Number: CUS-20260210
- Brand: SIGALD
- CAS-No.: 7758-98-7
- Synonyms: Cupric Sulfate; Blue Vitriol

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses

- Identified Uses: Agriculture (fungicide, fertilizer), electroplating, water treatment, chemical synthesis, laboratory reagent.
- Uses Advised Against: Food, pharmaceutical, or direct oral consumption.

SECTION 2: Hazards Identification

2.1 GHS Classification: Acute toxicity (oral, Category 4); Skin corrosion/irritation (Category 2); Eye damage/irritation (Category 2A); Aquatic toxicity (Category 1)

- Hazard Pictogram: GHS07 (Exclamation mark), GHS09 (Environment)
- Signal Word: Warning
- Hazard Statements: H302 (Harmful if swallowed), H315 (Causes skin irritation), H319 (Causes serious eye irritation), H400 (Very toxic to aquatic life)
- Precautionary Statements: 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 protective gloves/eye protection), P301+P312 (If swallowed: Call a POISON CENTER or doctor if you feel unwell), P305+P351+P338 (If in eyes: Rinse cautiously with water for several minutes)

SECTION 3: Composition

- Substance: Pure Substance
- Formula: $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
- Molecular Weight: 249.68 g/mol
- Concentration: $\geq 99.0\%$ ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)

SECTION 4: First Aid Measures



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- Inhaled: Move to fresh air. If symptoms persist, consult a doctor.
- Skin Contact: Remove contaminated clothing, rinse skin thoroughly with running water for 15 minutes.
- Eye Contact: Hold eyes open, rinse thoroughly with plenty of running water for 15 minutes. Consult a doctor immediately.
- Swallowed: Do not induce vomiting. Rinse mouth with water. Call a poison center or doctor immediately.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry powder, CO₂.
- Special Hazards: No combustion, but may release toxic fumes when heated (copper oxides).
- Firefighter Protection: Wear full protective equipment and self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear protective gloves, eye protection.
- Environmental Precautions: Prevent runoff into waterways.
- Cleanup Methods: Sweep up with inert material (sand, vermiculite), transfer to sealed containers for disposal.

SECTION 7: Handling and Storage

- Handling: Avoid dust formation. Wash hands after handling.
- Storage: Store in cool, dry, well-ventilated area. Keep container tightly closed. Store away from incompatible materials (alkalis, reducing agents).
- Shelf Life: 24 months (unopened, proper storage).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Nitrile gloves, safety goggles, dust mask (for large-scale handling).
- Engineering Controls: Ensure good ventilation.

SECTION 9: Physical and Chemical Properties

- Physical State: Crystalline powder
- Color: Bright blue
- Odor: Odorless
- Melting Point: 110°C (loses water)
- Boiling Point: Decomposes at 300°C
- Solubility: Soluble in water (203 g/L at 20°C)
- pH (5% solution): 3.8-4.5
- Density: 2.286 g/cm³ (25°C)

SECTION 10: Stability and Reactivity

- Stable under normal conditions. Incompatible with alkalis, reducing agents, ammonia.

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): 300 mg/kg
- Skin Irritation: Causes moderate irritation.



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- Aquatic Toxicity: Highly toxic to fish and aquatic organisms.

SECTION 12: Ecological Information

- Fully biodegradable? No.
- Bioaccumulation: May accumulate in aquatic organisms.

SECTION 13: Disposal Considerations

- Dispose in accordance with local regulations. Do not discharge into water.

SECTION 14: Transport Information

- UN Number: UN3077
- Transport Hazard Class: 9 (Miscellaneous dangerous goods)
- Packaging Group: III
- Marine Pollutant: Yes

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA regulations.

SECTION 16: Other Information

- Revision Date: 10 FEB 2026



纳维盈医化科技
NEWAY SINOPHC TECH