



# 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(II) Oxide
- Product Number: CUO-20260224
- Brand: SIGALD
- CAS-No.: 1317-38-0
- Synonyms: Cupric Oxide; Black Copper Oxide

#### 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: Catalyst, ceramic pigment, glass colorant, electronic materials, pharmaceutical intermediate, feed additive (copper supplement).
- Uses Advised Against: Direct oral consumption; unauthorized use in cosmetics.

### SECTION 2: Hazards Identification

2.1 GHS Classification: Eye irritation (Category 2A); Skin irritation (Category 2); Aquatic toxicity (Category 2)  
2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark), GHS09 (Environment)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation), H411 (Toxic to aquatic life with long-lasting effects)
- Precautionary Statements: P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/eye protection), P273 (Avoid release to the environment), P305+P351+P338 (If in eyes: Rinse cautiously with water)

### SECTION 3: Composition

- Substance: Pure Substance
- Formula: CuO
- Molecular Weight: 79.55 g/mol
- Concentration:  $\geq 99.0\%$  (CuO)

### SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If coughing or discomfort occurs, consult a doctor.



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- Skin Contact: Rinse skin with running water for 10 minutes.
- Eye Contact: Rinse eyes thoroughly with running water for 15 minutes. Consult a doctor if irritation persists.
- Swallowed: Rinse mouth with water. Do not induce vomiting. Seek medical advice.

## SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry powder, CO<sub>2</sub>.
- Special Hazards: Non-combustible. No hazardous combustion products.
- Firefighter Protection: Wear standard fire-fighting gear.

## SECTION 6: Accidental Release Measures

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

## SECTION 7: Handling and Storage

- Handling: Avoid dust inhalation. Operate in well-ventilated area.
- Storage: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed. Separate from strong reducing agents.
- Shelf Life: 36 months (unopened, proper storage).

## SECTION 8: Exposure Controls/Personal Protection

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

## SECTION 9: Physical and Chemical Properties

- Physical State: Powder
- Color: Black
- Odor: Odorless
- Melting Point: 1326°C
- Boiling Point: Decomposes
- Solubility: Insoluble in water; soluble in dilute acids.
- Density: 6.31 g/cm<sup>3</sup> (25°C)
- Particle Size: 1-5 μm (customizable)

## SECTION 10: Stability and Reactivity

- Stable under normal conditions. Incompatible with strong reducing agents, hydrogen, carbon monoxide.

## SECTION 11: Toxicological Information

- Oral LD<sub>50</sub> (Rat): 4700 mg/kg
- Skin Irritation: Mild to moderate irritation.
- Eye Irritation: Moderate irritation.

## SECTION 12: Ecological Information

- Aquatic Toxicity: Toxic to fish (Zebrafish LC<sub>50</sub>: 100-500 mg/L, 96h).



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- Biodegradability: Not biodegradable.
- Bioaccumulation: May accumulate in aquatic organisms.

### **SECTION 13: Disposal Considerations**

- Dispose in accordance with local regulations. Classified as hazardous waste (heavy metal-containing).

### **SECTION 14: Transport Information**

- UN Number: Not regulated as dangerous goods (unless in large quantities)
- Transport Hazard Class: -
- Packaging Group: -

### **SECTION 15: Regulatory Information**

- Complies with GHS, REACH, TSCA, EU REACH SVHC (not listed).

### **SECTION 16: Other Information**

- Revision Date: 24 FEB 2026



纳维盈医化科技  
NEWAY SINOPHC TECH