

# MATERIAL SAFETY DATA SHEET

## Copper Oxychloride

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Copper Oxychloride

**COMPANY IDENTIFICATION:** SPE Chemicals Co., Ltd  
Tel: 0086 21 51386314

**USE:** Fungicide

### 2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	CAS Reg. No.	Conc.
Copper Oxychloride	1332-40-7	97%

### 3. HAZARDOUS IDENTIFICATIONS:

**EYE:** Moderate eye irritant. May cause allergic conjunctivitis.

**SKIN:** Moderate skin irritant. May cause allergic irritation.

**INGESTION:** Harmful if swallowed

**INHALATION:** May cause irritation of the nose and throat and cause coughing and chest discomfort.

**SYSTEMIC** (other target organ): No data available

**CANCER INFORMATION:** The ingredients are not listed as carcinogenic in Worksafe's document

**TERATOLOGY** (Birth defects): No data available **REPRODUCTIVE EFFECTS:** No data available

### 4. FIRST AID:

If poisoning occurs, immediately contact a doctor and follow the advice given.

**EYE:** Rinse immediately with plenty of water for at least 15 minutes, holding eye open and taking care to rinse under eyelids as well. If irritation persists seek medical attention.

**SKIN:** Wash off skin immediately with soap and plenty of water. Remove all contaminated clothing and shoes. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.

**INGESTION:** Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice quickly.

**INHALATION:** Remove victim to fresh air. Seek medical advice if symptoms are experienced.

### 5. FIRE FIGHTING MEASURES:

**FIRE AND EXPLOSION HAZARDS:** If involves in fire, oxides of copper, hydrogen chloride may be produced.

**FIRE-FIGHTING EQUIPMENT:** If copper compounds are involved in a fire, avoid breathing smoke, fumes, or vapour. Fire fighters wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES:

### ACTION TO TAKE FOR SPILLS:

In case of spills it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.
- 1. Keep all bystanders away.
- 2. Wear full-length clothing and PVC gloves.
- 3. Shovel the spill into drums
- 4. Dispose of only with local, state and federal regulations.

## 7. HANDLING AND STORAGE:

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool dry place away from direct sunlight. Store away from food and food stuffs for animal or human consumption. Store in its original container well sealed.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION:

**EXPOSURE GUIDELINES:** Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

- Copper as dust or mist has a TWA of  $1\text{mg}/\text{m}^3$ .

**ENGINEERING CONTROLS:** In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING

**WORKERS:** Avoid skin and eye contact and inhalation of vapour. Wear overalls, chemical goggles and impervious gloves. Use adequate ventilation. Eye washing and shower facilities available.

**EYE / FACE PROTECTION:** Face and eye protection should be worn.

**SKIN PROTECTION:** Wear chemical resistant PVC or nitrile gloves. Wear cotton overalls and washable cotton hat. Wear boots.

**RESPIRATORY PROTECTION:** Use in well-ventilated area.

### APPLICATIONS AND ALL OTHER HANDLERS:

After handling this product always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Emerald green to greenish black powder.

**ODOUR:** No odour

**CORROSIVNESS:** Not Corrosive.

**SOLUBILITY IN WATER:** Dispersible

**BOILING POINT:** Not Applicable

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**INCOMPATIBILITY:** Strong Acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** This product is unlikely to spontaneously decompose.

**HAZARDOUS POLYMERIZATION:** This product is unlikely to spontaneously polymerise.

## 11. TOXICOLOGICAL INFORMATION:

- Oral LD50 (Rat): 700 – 800 mg/kg
- Dermal LD50 (Rat): > 2000 mg/kg
- Inhalation LC50 (Rat): > 30 (4h)

## 12. ECOLOGICAL INFORMATION:

### ENVIRONMENTAL DATA:

- DO NOT contaminate streams, rivers or waterways with this product or the used containers.
- Strongly absorbed by soils.

### ECOTOXICOLOGY: Toxic to fish.

- LC50 (48h) CARP 2.2 mg/L
- LC50 (24h) Daphnia 3.5 mg/L Not toxic to bee

## 13. DISPOSAL CONSIDERATIONS:

**DISPOSAL METHOD:** This material may be suitable for landfill. Dispose of only in compliance with local, state and federal regulations.

## 14. TRANSPORT INFORMATION:

### ROAD AND RAIL TRANSPORT:

Not classified as Dangerous Goods by the criteria of the Australian dangerous goods Code (ADG) for the transport by Road and Rail.

### MARINE TRANSPORT:

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods code (IMDG Code) for transport by sea.

### AIR TRANSPORT:

Not classified as dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for the transport by air.

## 15. REGULATORY INFORMATION:

### RISK PHRASES:

- R22: Harmful if swallowed

### SAFETY PHRASES:

- S22: Do not breathe dust

## 16. OTHER INFORMATION:

All information in this datasheet is provided in good faith and is believed to be correct. Each user should consider the information in this safety data sheet within the context of their particular application as SPE Chemicals Co.,Ltd cannot anticipate or control conditions under which this product may be used. We will not be responsible for any damages arising out of the use or reliance upon the information in this safety