



# Bio Organic Limited

(Dealers & Distributors of Fertilizers, Pesticides, Seeds, Veterinary and Industrial Chemicals)

## MATERIAL SAFETY DATA SHEET

### COPTER 53.8 WDG

#### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Copper Hydroxide 53.8% WDG

**Product type:** Fungicide

**Chemical name:** Copper Hydroxide (IUPAC)

**Chemical family:** Inorganic

**Company identification:** Zhejiang Ruili Biotechnology Co., Ltd.

Add.: Xindu Industrial Park, Changshan, Zhejiang, 324200, P.R., China

#### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient              | CAS Number | Percent |
|-------------------------|------------|---------|
| Copper Hydroxide        | 20427-59-2 | 53.8    |
| Other inert ingredients | ---        | To 100  |

#### SECTION 3 – HAZARDS IDENTIFICATION

**Inhalation:** Negligible toxicity.

**Eye contact:** Irritant to eyes.

**Skin contact:** Slightly irritant.

**Ingestion:** The product can be harmful.

#### SECTION 4 – FIRST AID MEASURES

**Ingestion:** Do NOT induce vomiting. Give a glass of water.

**Eye contact:** Hold eyelids open and flush eyes immediately with clear water for at least 15min and obtain medical aid.

**Skin contact:** Take off contaminated clothing, rinse skin immediately with plenty of water.

**Inhalation:** Unlikely to occur. Move subject to fresh air.

**Note to physician:** This product is of low toxicity and acute poisoning is unlike to occur. No specific antidote. Treat symptomatically.

#### SECTION 5 – FIRE FIGHTING MEASURES

**Flammability:** Non-flammable.

**Extinguishing media:** Water spray, carbon dioxide, foam, dry agent.

**Special fire fighting procedures:** When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat and preferably, goggles.

**Unusual fire and explosion hazards:** Fire decomposition products from this product are not normally hazardous.

**Address:** P.o. Box: 29024 - 00100 Nairobi - Kenya

**Physical address:** | Sapna Business Park (SBP) | Kyang'ombe Area (ICD)

| ODD OLD Mombasa Road, Nairobi Kenya |

**Contact:** +254 20 240 3393 / +254 792 458 379, **Email:** info@bioorganic.co.ke / bioorgltd@gmail.com



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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Sweep up with damp earth or sand or other suitable absorbents, taking care not to raise a dust cloud. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away and upwind.

## SECTION 7 – HANDLING AND STORAGE

**HANDLING PRODUCT:** Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

**STORAGE:** Store in the closed, original container in a cool, secure, well-ventilated area.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye protection:** Safety goggles or face shield.

**Skin protection:** Cotton overall buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves.

**Respiratory protection:** Respiratory protection is not normally required. If airborne concentrations are likely to exceed the exposure standards above, an approved respirator should be worn.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and odor:** Blue granular solid

**Flash point:** Non flammable

**Vapor pressure (mPa):** Negligible

**Specific Gravity:** 1.0415 g/cm<sup>3</sup>

**Solubility (g/l) at 21°C:** Form suspension with water

**Molecular formula:** CuH<sub>2</sub>O<sub>2</sub>

**Molecular weight:** 97.6

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable under normal temperature and storage conditions.

**Incompatibility with other materials:** Mercury-containing compounds, thiram, DNOC, lime sulfur and dithiocarbamates.

**Hazard decomposition:** None found.

**Hazardous polymerization:** Will not occur.

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Acute toxicity LD<sub>50</sub> (mg/kg, rat):** Oral 1470, Dermal >2000 mg/kg.

**Occupational exposure limits:** Not established.

**Carcinogenicity:** Animal studies did not detect any carcinogenic activity. No human data available.

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## SECTION 12 – ECOLOGICAL INFORMATION

### Based on Copper Hydroxide technical:

**Effects on birds:** Acute oral LD<sub>50</sub> for bobwhite quail 233, mallard ducks 584 mg Cu/kg.

**Effects on fish:** LC<sub>50</sub> (96 h) for rainbow trout and bluegill sunfish < 0.1 mg Cu/l.

**Effects on other organisms:** Not-toxic to honeybees. Daphnia LC<sub>50</sub> < 0.1 mg Cu/l.

## SECTION 13 – DISPOSAL CONSIDERATIONS

For disposal, incinerate this material at a facility that complied with local, state and country regulations.

## SECTION 14 – TRANSPORT INFORMATION

Not regulated as dangerous cargo.

## SECTION 15 – REGULATORY INFORMATION

Not regulated.

## SECTION 16 – OTHER INFORMATION

**MSDS First Issued** : 21 / 03 / 2018

**MSDS Date Revised** : 21 / 03 / 2020

### Disclaimer

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