

1: IDENTIFICATION

Chemical Name	Copper chloride oxide hydrate		
Synonyms	Copper Oxychloride 50% WG		
Uses	Fungicide		
Manufacturer/Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Copper Oxychloride	1332-40-7	50.0%
Other	-	50.0%

3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:

Acute toxicity, Category 2

Human Health Hazard:

H302, Harmful if swallowed. H360Df May damage the unborn child

Environmental Hazard:

Very toxic to aquatic organisms, may cause long term adverse effects in aquatic environment

4: FIRST AID MEASURES

General: Remove victim from polluted area. Place in the recovery position. Remove contaminated clothing. Dispose in a safe manner.

Inhalation: Remove victim to fresh air. Keep the victim warm. Allow victim to rest. Immediately get medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

Skin Contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before reuse

Eye Contact: Rinse immediately with plenty of water. After 5 minutes remove contact lenses if present. Rinse again with plenty of water. Continue to rinse with eyelid wide open for at least 15 minutes. Seek medical attention if irritation develops.

Note to physician: No specific Antidote. Treat symptomatically

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water fogg. Alcohol resistant foam. Dry chemical powder. Carbon Dioxide

Unsuitable Extinguishing Media: Do not use water jet, as this may spread the fire.

Hazardous Thermal (de)composition: Harmful and toxic vapours/gasses

Special Procedures: Do not discharge extinguishing water into the environment. Move containers away from area if it can be done without risk. If possible remove containers from fire zone, cool them with water spray.

Protection of Fire Fighters: Wear a self contained breathing apparatus. Wear suitable protective gloves and eye/face protection.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with spilled products or contaminated surfaces. Do not eat, drink or smoke.

Environmental Precaution: Prevent entry to sewers and public waters. Notify the authorities if product enters sewers or public waters.

Methods for Cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Collect spilled material in sealed containers. Remove according to national or local legislation clean the polluted area. Do not dump into the sewer, On the ground or into any body of water.

7: HANDLING & STORAGE

After Spillage and/or Leakage: Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13. check also the local procedure.

Handling: Use only in areas provided with appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practise. For personal protection see 8.

Technical Protective: No special measures required.

Storage: Store in dry, cool, well-ventilated area, away from heat and ignition sources., direct sunlight and extremely high and low temperature. Store in accordance with good industrial practices. Keep away from food and feed products. Place away from incompatible materials.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Provide adequate ventilation.

General Protection: Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Occupational Exposure Limits: Tembotrione: TWA 0.15 mg/m³, ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate: TWA 1.0 mg/m³

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type.

Skin Protection: Suitable protective clothing. Wear coverall and type 6 suits. Wear two layers of clothing where possible. A cotton or cotton/polyester coverall must be worn under the chemical protection clothing and cleaned frequently by an industrial laundry. If a chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by the manufacturer.

Hand Protection: Wear CE marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye Protection: Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Micro granules **Odour :** Odourless **SpGr:** 0.9 to 1.1 **Boiling Point [°C]:** No data available.

Colour: Greenish blue **Melting Point (°C):** > 130 **Physical State:** Solid

Solubility in Water: Insoluble in water. **Vapour Pressure:** Negligible @20°C **pH Value:** 6 - 9.5 @ 23°C,

10: STABILITY & REACTIVITY

Stability: Stable under normal circumstances. See also sec. 7.

Hazardous Decomposition Products: Thermal decomposition or combustion may generate irritating and probably toxic gases (copper oxides, chlorine compounds: HCl and eventually Cl)

Materials to Avoid: Alkaline materials. Corrosive to metals. **Hazardous Reactions:** Hazardous polymerization will not occur.

Conditions to Avoid: Avoid storage in moist or hot conditions and near of heat and ignition sources

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg]: > 2,264 Rat inhalation LC50 [mg/l/4h] : > 1.95

Dermal (rat) LD50 [mg/kg]: > 2,000 Skin irritation (rabbit): Skin irritant. Eye irritation (rabbit): Eye irritant.

12: ECOLOGICAL INFORMATION

Ecotoxicity:

LC50 - 96 rainbow trout [mg/l] : 43.8 LD50(oral) 18.1 µg Cu/bee LD50 511 mg Cu/kg: Bobwhite quail

13: DISPOSAL CONSIDERATION

Waste-disposal procedures: Dispose of this product only by using according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Add rinsing's to spray tank.

Contaminated packaging: (1) Rinse containers before disposal. Add rinsing's to the spray tank. DO NOT dispose of undiluted chemicals onsite.(2) Dispose of rinsed, empty containers at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt

14: TRANSPORT INFORMATION

UN No. 3077 **Proper Shipping Name:** Environmentally hazardous substance solid, n.o.s (Copper Oxychloride)

Land Transport (ADR/RID): Class-9, Packing Group-III, Hazard Identification number-90, Hazard Label-9, Item Number- Tunnel Code:E

Sea Transport (IMO) (IMDG): Class-9, Packing group-III, Marine Pollutant-Yes

Air Transport (IATA): Class-9, Packing group-III, Environmental hazard mark-Yes

15: REGULATORY INFORMATION

Hazard Symbol: Dangerous for the environment (N) **EU Classification:** Hazardous according to Regulation (EC) No 1272/2008

Risk Phrases: R22, R38, R41, R43 **Safety Phrases:** Ss1/22, S26, S35, **TSCA:** Not listed

16: OTHER INFORMATION

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