



Conforms to HazCom 2012/United States

SDS

CuPRO® 5000



SAFETY DATA SHEET

CuPRO® 5000

Fungicide/Bactericide

Section 1. Identification

Product name : CuPRO® 5000 Fungicide/Bactericide
Other means of identification : EPA Registration Number 10163-395-67690

CAS No. 1332-40-7 (Copper hydroxide)

Relevant identified uses of the substance or mixture and uses advised against

Sector of Use: Agriculture

Application of the substance / the mixture: Agricultural Fungicide / Bactericide

Restrictions on use: See product label for restrictions.

Supplier's details : SePRO Corporation
11550 North Meridian Street, Suite 600
Carmel, IN 46032 U.S.A.
Tel: 317-580-8282/Toll free: 1-800-419-7779
Fax: 317-580-8290
Monday - Friday, 8am to 5pm EST
Email: www.sepro.com

Emergency telephone : INFOTRAC - 24-hour service 1-800-535-5053

Section 2. Hazards identification

Classification of the substance or mixture
GHS05 Corrosion



Eye Damage. 1 H318 Causes serious eye damage.

GHS07



Acute Toxicity - Oral 4 H302 Harmful if swallowed.
Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS05



GHS07

Signal word

Danger

Hazard-determining

components of labeling:

Copper hydroxide

Hazard statements

H302 + H332 Harmful if swallowed or if inhaled.

H318 Causes serious eye damage.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

Hazard description:

Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust.

Classification system:

NFPA ratings (scale 0 – 4)



Health = 2

Fire = 0

Reactivity = 0

HAZARD INDEX:

4 Severe Hazard
3 Serious Hazard
2 Moderate Hazard
1 Slight Hazard
0 Minimal Hazard

Other hazards

Results of PBT and
vPvB assessment

PBT: Not applicable in U.S.

vPvB: Not applicable in U.S.

Section 3. Composition/information on ingredients

Chemical characterization:





Mixtures

Description:

Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 20427-59-2 Copper Hydroxide

Dangerous Components		
CAS: 20427-59-2	Copper hydroxide	61.3%
	Acute Toxicity- Inhalation 2, H330	
	Eye Damage 1, H318	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Acute Toxicity – Oral 4, H302	

Section 4. First aid measures

Description of first aid measures

- General information:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-535-5053 for emergency medical treatment information. Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after the accident.
- After inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call poison control center or doctor for further treatment advice. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- After eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Immediately call a doctor.

Information for doctor:
Most important symptoms and effects, both acute and delayed

Unknown



Indication of any immediate medical attention and special treatment needed None

Section 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media: Use fire fighting measures that suite the environment.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters Firefighters and others that may be exposed to vapors, mists, dusts, or products of combustion should wear full protective clothing and self-contained breathing apparatus. Equipment should be thoroughly cleaned after use.

Protective equipment: Wear self-contained respiratory protective device. Mouth respiratory protective device.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Keep unnecessary people away and isolate hazard area. Wear appropriate personal protective equipment described in Section 8.

Environmental precautions: Do not allow to enter sewers/surface or ground water. This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Sweep up spill, scoop or vacuum and remove. Flush residual spill area with water. Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water. Refer to Section 13 for disposal information and Section 15 for reportable quantity information.

Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Protective Action Criteria for Chemicals	
PAC-1:	All components have the value 4.6 mg.m ³ .
PAC-2	All components have the value 33 mg/m ³ .
PAC-3	All components have the value 200 mg/m ³ .

Section 7. Handling and storage

Handling:

Precautions for safe handling

Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust.

Information about protection

against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store under well-vented, cool and dry storage conditions. Do not store under moist conditions.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Keep receptacle tightly sealed.

Specific end use(s)

No further relevant information available.

Section 8. Exposure controls/personal protection

Additional information about

design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and

hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The glove material has to be impermeable and resistant to the product/ the substance / the preparation. Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Material of gloves: chemical-resistant gloves such as Natural Rubber. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the gloves material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection



Tightly sealed goggles

Body protection: Handlers must wear: long-sleeved shirt and long pants; shoes plus socks; goggles or faceshield; chemical-resistant gloves such as Natural Rubber.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Granulate

Color: Light blue-green

Odor: Odorless

Odor threshold: Not determined

pH at 20°C (68°F): 8.8 – 9.0

Melting point: Undetermined

Boiling point: Undetermined

Flash Point: Not applicable

Flammability (solid, gas): Not determined

Decomposition Temp.: Not determined

Auto igniting: Product is not self-igniting

Danger of Explosion: Product does not present an explosion hazard

Explosion limits:

Lower: Not determined

Upper: Not determined

Vapor Pressure: Not applicable

Density at 20°C (68°F): 1.02 g/cm³ (8.512 lbs/gal)

Relative density: Not determined

Vapour density: Not applicable

Evaporation Rate: Not applicable

Solubility in Water: Dispersible

Partition coefficient

(n-octanol/water): Not determined

Viscosity:

Dynamic: Not applicable

Kinematic: Not applicable

Other information: No further relevant information available

Section 10. Stability and reactivity

Reactivity No further relevant information available.



Chemical stability This product should be stable for at least two years under normal conditions of warehouse storage. Store under well-vented, cool and dry storage conditions, reducing agents and acids. Do not store under moist conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid Store under well-vented, cool and dry storage conditions, Avoid moisture conditions.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

- Oral LD₅₀: 944.6 mg/kg (rat)
- Dermal LD₅₀: >2.000 mg/kg (rat)
- Inhalation LC₅₀: >1.28 mg/l (rat; 4hr)

CAS: 20427-59-2 Copper hydroxide

- Oral LD₅₀ 500 mg/kg (ATE)
- Inhalative LC50/4h 0.47 mg/L (Acute toxic estimated)

Primary irritant effect:

- On the skin:** No irritant effect.
- On the eye:** Moderately Irritating. Strong irritant with the danger of severe eye injury.
- Sensitization:** No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful, Irritant.

Carcinogenic categories

IARC (International Agency for Research on Cancer)	None of the ingredients are listed.
NTP (National Toxicology Programs)	None of the ingredients are listed.
OSHA-Co (Occupational Safety & Health Administration)	None of the ingredients are listed.

Section 12. Ecological information

Toxicity This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

- General notes:** Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

**Results of PBT and vPvB assessment**

PBT:	Not applicable.
PvB:	Not applicable.
Other adverse effects	No further relevant information available.

Section 13. Disposal considerations**Waste treatment methods:**

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Uncleaned packagings:

Recommendation: Empty the package completely. Then dispose of the empty container according to state and local regulations. Place in trash or offer for recycling if available or return it to the Seller, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

Section 14. Transport information**UN-Number**

DOT, ADR, ADN, IMDG, IATA Void

UN proper shipping name

DOT, ADR, IMDG, IATA Void
AND Not regulated

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA Void
Class

Packing group

DOT, ADR, IMDG, IATA Void

Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

UN "Model Regulation":

Void

Section 15. Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

EPA /FIFRA Information: This chemical is a pesticide product registered by the Environmental Protection Agency (EPA) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

The following is the hazard information as required on the pesticide label.

SARA Title III**Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

All the ingredients are listed.

TSCA (Toxic Substances Control Act):

All components have the value Active.

**Hazardous Air Pollutants**

None of the ingredients are listed.

Proposition 65**Chemicals known to cause cancer:**

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenicity categories**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms** Not applicable**Signal word** (US EPA) DANGER**Hazard-determining components of labeling:** Copper hydroxide**Hazard statements** Not applicable
H302 +H333 Harmful if swallowed or if inhaled.
H318 Causes serious eye damage.**Precautionary statements** Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust. Avoid breathing dust/fume/gas/mist/vapors/spray.**Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation/last revision: 08/30/2022 (Based on parent product SDS last reviewed 07/29/2022)**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)



SDS

CuPRO® 5000

NFPA: National Fire Protection Association (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Toxicity- Oral 4: Acute toxicity- Category 4
Acute Toxicity- Inhalation 2: Acute toxicity- Category 2
Eye Damage 1: Serious eye damage/eye irritation- Category 1
Aquatic Acute 1: Hazardous to the aquatic environment- acute aquatic hazard- Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment- long-term aquatic hazard- Category 1

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Notice to reader

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