

Conforms to HazCom 2012/United States

SAFETY DATA SHEET



CuPRO* 2005 T/N/O

Fungicide/Bactericide

Section 1. Identification

Product name : CuPRO 2005 T/N/O Fungicide/Bactericide

Other means of identification: EPA Registration Number 67690-37

Product Use : Fungicide

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 E.S.T.

www.sepro.com

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

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

Section 2. Hazards identification

Emergency Overview Warning. Causes substantial but temporary eye damage. Harmful if swallowed, inhaled or

absorbed through skin. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. This

product is toxic to fish. This product is toxic to: Aquatic Invertebrates

Potential Health Effects This section includes potential acute adverse effects which could occur if this material is not

used according to the label.

Skin: No adverse effects expected. There are no reports of human skin sensitization. Prolonged

contact may cause: Irritation.

Eyes: Risk of serious damage to eyes. Irritation with discomfort, pain, redness, or visual impairment.

Inhalation: May cause irritation of respiratory tract. Cough.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Metallic taste,

gross overexposure may cause: kidney failure, bloody urine, anemia, loss of consciousness.

Repeated ExposureQuartz: CuPRO 2005 T/N/O has classified this material as a known human carcinogen.

Carcinogenicity

Material IARC NTP OSHA

Quartz 1 X

Section 3. Composition/information on ingredients

ComponentCAS-No.ConcentrationCopper Hydroxide20427-59-253.80%Other Ingredients46.20%

Present as an impurity in the clay component of this product:

Quartz <2%

Section 4. First aid measures

Skin contact : The material is not likely to be hazardous by skin contact, but cleaning the skin after use

is advisable.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control

center or doctor for treatment advice.

Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor

for treatment advice.

Ingestion : Call a poison control center or doctor for treatment advice. Have person sip a glass of

water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician

or poison control center. Do not give anything by mouth to an unconscious person.

General advice : Have the product container or label with you when calling a poison control center or

doctor, or going for treatment.

For medical emergencies involving this product, call toll free ChemTel 1-800-255-3924 (outside the U.S. 1-813-248-0585).

See Label for Additional Precautions and Directions for Use.

Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5. Fire-fighting measures

Flammable Properties

Flashpoint: Not applicable

Auto-ignition temp.: 340 °C (644 °F)

Suitable extinguishing media: Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

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Unsuitable extinguishing

media: High volume water jet, (contamination risk)

Firefighting instructions: In the event of a fire, wear self-contained breathing apparatus. Use personal protective

equipment.

If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray. Do not allow run-

off from fire fighting to enter drains or water courses.

Section 6. Accidental release measures

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before

proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during

clean-up.

Safeguards (Personnel): Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use

personal protective equipment.

Spill Clean-up: Clean-up methods – large spillage. Prevent further leakage or spillage. Use approved

industrial vacuum cleaner for removal. Shovel into suitable container for disposal. Clean-up methods – small spillage. Sweep up or vacuum up spillage and collect in suitable container

for disposal.

Accidental Release

Measures: Prevent material from entering sewers, waterways or lower areas.

Section 7. Handling and storage

Handling (Personnel): Wash hands thoroughly with soap and water after handling and before eating, drinking,

chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material

gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Handling (Physical Aspects): Keep away from heat and sources of ignition.

Storage: Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original

container. Store in a cool, dry place. Keep out of the reach of children.

Section 8. Exposure controls/personal protection

Engineering controls: Use only with adequate ventilation.

Personal Protective Equipment

Eye protection: Goggles, face shield, or safety glasses.



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Skin and body protection: Mixer's, loaders, applicators and other handlers must wear:

Long sleeved shirt and long pants

Chemical resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile

rubber, or butyl rubber Shoes plus socks Protective eyewear

PPE required for early entry to treated areas that is permitted under the Workers Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or

water, is:

Chemical resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile

rubber, or butyl rubber Shoes plus socks Protective eyewear

Protective measures: Discard clothing and other absorbent materials that have been drenched or heavily

contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Use this product in accordance

with its label.

Exposure Guidelines
Exposure Limit Values

Copper Hydroxide

AEL* (CuPRO 2005 T/N/O) 1.5 mg/m3 8 & 12 hr. TWA

Quartz

PEL: (OSHA) 2.4 millions of particles TWA Respirable

per cubic foot of air

Remarks The exposure limit is calculated from

the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher

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exposure limits.

PEL: (OSHA) 0.1 mg/m3 TWA Respirable

Remarks The exposure limit is calculated from

the equation, 10/(%SiO2+2), using a

value of 100% SiO2. Lower

percentages of SiO2 will yield higher

exposure limits.

PEL: (OSHA) 0.3 mg/m3 TWA Total Dust

Remarks The exposure limit is calculated from

the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give high exposure

limits.

TLV: (ACGIH) 0.025 mg/m3 TWA Respirable fraction

AEL* (CuPRO 2005 T/N/O) 0.01 mg/m3 12 hr. TWA Respirable dust

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CuPRO* 2005 T/N/O

AEL* (CuPRO 2005 T/N/O) 0.02 mg/m3 8 hr. TWA Respirable dust

*AEL is CuPRO 2005 T/N/O's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

Section 9. Physical and chemical properties

Form: Solid, granular

Color: Blue

Odor: Characteristic copper odor

pH: 8.6

Oxidizing Substance: The product is not oxidizing

Density: 1.04 g/cm³ **Water Solubility:** 2.9 mg/l

Section 10. Stability and reactivity

Stability: Stable at normal temperatures and storage conditions.

Conditions to avoid: Temperature > 140 °C (> 284 °F)

Avoid extreme heat

Hazardous decomposition

products: Copper oxides

Section 11. Toxicological information

CuPRO 2005 T/N/O Fungicide/Batericide

Inhalation 4 h LC₅₀: 1.311 mg/l, rat

Dermal LD50: > 5,000 mg/kg, rabbit

Oral LD50: 1,346 mg/kg, rat

Skin irritation: No skin irritation, rabbit

Eye irritation: Irritating to eyes, rabbit

Sensitization: Animal test did not cause sensitization by skin contact, guinea pig

Further information: No data is available on the product itself

Copper Hydroxide

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly exceed those expected

under labeled usage conditions.

Oral Rat Liver effects, Kidney effects, microcytic anemia

Information given is based on data obtained from similar substances.

Oral - feed

Rat

Spleen effects

Information given is based on data obtained from similar substances.

Carcinogenicity: Animal testing did not show any carcinogenic effects.

Information given is based on data obtained from similar substances.

Mutagenicity: Evidence suggests this substance does not cause genetic damage in cultured bacterial cells.

Evidence suggests this substance does not cause genetic damage in animals.

Information given is based on data obtained from similar substances.

Reproductive toxicity: Animal testing did not show any effects on fertility.

Information given is based on data obtained from similar substances.

Teratogenicity: The following effects occurred at levels of exposure that significantly exceed those expected

under labeled usage conditions.

Animal testing showed effects on embryo-fetal development at levels equal to or above those

causing maternal toxicity.

Quartz

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly exceed those expected

under labeled usage conditions.

nhalation

Fluid retention in lungs (pulmonary oedema), lung effects, Inflammation, Chronic lung disease,

Fibrosis

Carcinogenicity: Human carcinogen

CuPRO 2005 T/N/O has classified this material as a known human carcinogen.

Section 12. Ecological information

96 h LC₅₀: Oncorhynchus mykiss (rainbow trout) 4.79 mg/l

72 h ErC₅₀: Pseudokirchneriella subcapitata (green algae) 18.03 mg/l

48 h EC₅₀: Daphnia 1.61 mg/l

Copper Hydroxide

90 d: NOEC 0.0017 mg/l

21 d: NOEC 0.03 mg/l

Additional ecological

Information: Environmental Hazards: For Terrestrial Uses: Do not apply directly to water, or to areas

where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. See product label for additional application instructions relating to environmental

precautions.

Section 13. Disposal considerations

Waste Disposal: Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous.

Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the

nearest EPA Regional Office for guidance.

Container Disposal: Container Refilling and Disposal:

Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.

In the event of a major spill, fire or other emergency, call 1-800-255-3924

(outside the U.S. 1-813-248-0585) day or night.

Section 14. Transport information

IATA C UN-Number: 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Copper hydroxide)

Class:

Packing group:

IMDG UN-Number: 3077

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper

Hydroxide)

Class: 9 Packing group: III Labelling No. 9

Marine pollutant: yes (Copper hydroxide)

Not regulated by DOT/49 CFR unless shipped in bulk package or by water.

Section 15. Regulatory information

SARA 313 Regulated: Copper hydroxide

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Chemical(s)

Title III hazard: Acute Health Hazard: Yes Classification Chronic Health Hazard: No

Fire: No

Reactivity/Physical Hazard: No

Pressure: No

EPA Reg. No.: 67690-37

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

California Prop. 65: WARNING! This product contains a chemical or chemicals known to the State of California to

cause cancer.

WARNING! This product contains a chemical or chemicals known to the State of California to

cause birth defects or other reproductive harm.

PA Right to Know

Regulated Chemical(s): Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1%

or more (0.01% for Special Hazardous Substances): Limestone, Tetrasodium pyrophosphate,

Quartz, Disodium hydrogenorthophosphate.

Section 16. Other information

	NFPA	HMIS
Health:	2	2
Flammability:	1	1
Reactivity/Physical Hazard:	0	0

Date of Issue: 10/12/15

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.