

SAFETY DATA SHEET: Sandrine Copper Fungicide

1. IDENTIFICATION

GENERAL USE:	Copper Fungicide
COMMON NAME:	Sandrine
USEPA Reg. No.:	67702-2-68539
MANUFACTURED FOR:	BioWorks 100 Rawson Rd, Suite 205 Victor, NY 14564
EMERGENCY TELEPHONE NUMBERS:	BioWorks: 800-877-9443 CHEMTREC: 800-424-9300 (for USA and Canada)

2. HAZARDS IDENTIFICATION

Signal Word:

WARNING

Pictogram:



Hazard Statement:

H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H316	Causes mild skin irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life

Precautionary Statements:

P261	Avoid breathing dust
P264	Wash hands and exposed areas thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment
P304 + 340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call the POISON CENTER if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to hazardous special waste collection point.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product contains the following ingredients:

COMPONENT	CAS No.	% (w/w)	OSHA PEL	ACGIH
Copper Octanoate	20543-04-8	10		Toxic to aquatic life

The specific chemical identities and percentages of composition have been withheld as trade secrets.

4. FIRST-AID MEASURES

Inhalation: Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

Skin: In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Do not induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.

Most important symptoms and effects, both acute and delayed. No further relevant information available

Indication of any immediate medical attention and special treatment needed. No further relevant information available.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Regular foam, carbon dioxide, dry chemical, water.

SPECIAL FIRE-FIGHTING PROCEDURES: No special measures required.

UNUSUAL FIRE and EXPLOSION HAZARDS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Take all additional action necessary to prevent and remedy the adverse effects of the spill. This product should be prevented from entering bodies of water.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: In case of spill, collect material immediately. Wipe residual material from surfaces with cloth. Do not wash residues into drains or other waterways.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

PERSONAL PRECAUTIONS: Wear appropriate protective equipment. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

ENVIRONMENTAL PRECAUTIONS: Avoid run off to waterways and sewers

CONTAINMENT/CLEAN-UP MEASURES: Stop leak if can do it without risk. Absorb or cover with dry earth, sand or other absorbent materials and transfer to containers.

PESTICIDE STORAGE: Store in ambient temperature, well-ventilated place away from excessive heat. Keep container closed when not in use. Keep away from incompatible materials. **Incompatible Materials:** Strong oxidizing agents or acids

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS: None.

PERSONAL PROTECTION:

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 26 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face: Wear safety goggles

Hands: Wear protective gloves

Skin/Body: Where extensive dermal exposure may be expected, either a chemical suit or a chemical apron will be needed.

General Industrial Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, or drinking. Safety shower and eye wash should be available close to work areas.

Environmental Exposure Controls: Follow best practice for site management and disposal of waste. Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Blue liquid
ODOR:	Fatty odor
ODOR THRESHOLD:	Not determined
pH:	6.50 ± 1.50
MELTING POINT:	Not determined
BOILING POINT:	Not determined
FLASH POINT:	Non-combustible
EVAPORATION RATE:	Not applicable
FLAMMABILITY/EXPLOSIVE LIMITS:	Product is not flammable
VAPOR PRESSURE at 50°C:	Not applicable
VAPOR DENSITY:	Not applicable
BULK DENSITY at 20°C (68 °F):	1.05 ± 0.02 g/mL
SOLUBILITY in water:	Dispersible in water
PARTITION COEFFICIENT:	Not determined
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not determined
VISCOSITY at 20°C:	300 ± 200 cPs (Brookfield LVF)

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use. Chemical Stability: Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions: No dangerous reactions known.

Conditions to avoid: Exposure to excessive heat.

Incompatible Materials: Strong oxidizing agents or acids

Hazardous Decomposition Products: CO₂ and CO may be evolved during burning

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY:**

Acute Oral LD50 (Rat): >2000 mg/kg

Acute Dermal LD50 (Rabbit): >2000 mg/kg

Acute Inhalation LC50 (Rat): Harmful if inhaled

Ingestion: May be harmful if swallowed

Skin Irritation: May be harmful in contact with skin. Causes mild skin irritation.

Eye Irritation: Causes eye irritation.

CHRONIC TOXICITY:

Carcinogenicity: Unnecessary

Reproductive toxicity: Unnecessary

Teratogenic effects: Unnecessary

Mutagenic effect: Not a mutagen

12. ECOLOGICAL INFORMATION

This product is not classified as dangerous for environment

Mobility in soil: No further relevant information available.

Persistence and degradability: No further relevant information available.

Toxicity: No further relevant information available.

Other adverse effects: None

13. DISPOSAL CONSIDERATIONS

Product Waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging Waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Not regulated
Land: ADR / RID Class:	Not Regulated
US DOT:	Not Regulated
U.S. Surface Freight Classification:	NMFC item 155050, LTL Class: 60 Fungicide
Water: IMDG Class:	Environmentally hazardous substance, liquid, n.o.s., (Copper), 9, UN3082, III Marine Pollutant
Air: IATA - DGR Class:	Non-Hazardous. Not Regulated

15. REGULATORY INFORMATION**UNITED STATES (EPA Reg. No. 67702-2-68539)**

This pesticide product is registered by the United States Environmental Protection Agency 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other information, including direction for use.

CAUTION

Keep out of reach of children. CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms and may contaminate water through runoff. 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 by disposal of equipment washwaters or rinsate. This product may contaminate water through runoff. Poorly draining 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.

15. REGULATORY INFORMATION (Continued)

SARA Hazard Class:

☐ Acute ☐ Chronic ☐ Flammable ☐ Pressure ☐ Reactive ☒ NoneSARA 313: ☐ Yes ☒ No, ChemicalSARA 302 ☐ Yes ☒ No, ChemicalCERCLA: ☐ Yes ☒ No, Chemical

RQ: none

RCRA: ☐ Yes ☒ No

NFPA Hazard Rating:

NFPA Hazard Rating Scale:

Health: [1]

0 = Minimal

3 = Serious

Fire: [0]

1 = Slight

4 = Severe

Reactivity: [0]

2 = Moderate

Special: [0]

HMIS Codes:

HMIS Hazard Rating Scale:

Health: [1]

0 = Minimal

3 = Serious

Fire: [0]

1 = Slight

4 = Severe

Reactivity: [0]

2 = Moderate

GHS label elements: This product has been classified and labeled according to the Globally Harmonized System (GHS). It is subject to labeling according to the prevailing version of regulations on hazardous substances.

WHMIS: This SDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION**DATE OF PREPARATION:** 21 October 2025**CONTACT:**BioWorks
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Victor, NY 14564**TELEPHONE:**

800-877-9443

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