



Bonide Liquid Copper Fungicide Concentrate

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Bonide Liquid Copper Fungicide Concentrate
Product code : 6770224

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

Use of the substance/mixture : Fungicide

1.3. Details of the supplier of the safety data sheet

Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424

Telephone Number: (315) 736-8231

Comment: Bonide hours of operation are 8:00 a.m. to 4:30 p.m EST.

Website: www.bonide.com

Email address: sales@bonide.com

1.4. Emergency telephone numbers (24 hour)

Medical : SafetyCall - (833) 972-1101
Spills : CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute toxicity, oral 5	H303
Acute toxicity, dermal 5	H313
Skin corrosion, irritation 3	H316
Serious eye damage/eye irritation 2B	H320
Acute toxicity, inhalation 4	H332
Hazardous to the aquatic environment, acute toxicity 1	H400

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

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 (GHS-US) :

P261 - Avoid breathing spray.
P264 - Wash thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protecting clothing/eye protection.
P301+P317 - IF SWALLOWED: Get medical help.
P302+P317 - IF ON SKIN: Get medical help.
P304+P340+P317 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
P332 + P317 - If skin irritation occurs: Get medical help.
P305 + P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317 - If eye irritation persists: Get medical help.
P391 - Collect spillage.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to in accordance with local and national regulations.

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SECTION 3: Composition/information on ingredients

Mixture

Name	Product identifier	%
Copper Octonate (Copper Soap)	CAS # 20543-04-8	10

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the person to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
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7.2. Conditions for safe storage, including any incompatibilities

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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear approved mask.
Other information	: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Blue liquid with Acid odor.
Color	: Blue.
Odor	: Acid odor.
Odor threshold	: No data available
pH	: 6.5 ± 1.5
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C (212°F)
Flash point	: Non combustible
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Product is not flammable
Vapor pressure	: Not applicable
Vapor density	: Not applicable
Density @ 20°C (68°F)	: 1.05 ± 0.02 g/mL
Solubility	: Dispersable in water.
Explosion Hazard	: Product does not present an explosion hazard
Partition coefficient (n-octanol/water)	: No data available
Viscosity	: 300 ± 200 cPs (Brookfield LVF)

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Exposure to excessive heat.

10.5. Incompatible materials

Strong oxidizing agents or acids.

10.6. Hazardous decomposition products

CO₂ and CO may be evolved during burning.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: LD₅₀ (oral) (rat) >2000 mg/kg; LD₅₀ (dermal) >2000 mg/kg

Routes of Entry

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

Eyes: Causes eye irritation.

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Ingestion: May be harmful if swallowed

Inhalation: Harmful if inhaled

11.2. Carcinogenic Categories

IARC (International Agency for Research on Cancer): Substance is not listed

NTP (National Toxicology Program): Substance is not listed

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

DOT Classification: Not regulated by US DOT Highway regulations.

U.S. Surface Freight Classification: NMFC item 155050, LTL Class: 70 Fungicide

IMDG Class (sea): Environmentally hazardous substance, liquid, n.o.s., (Copper), 9, UN3082, III Marine Pollutant

SECTION 15: Regulatory information

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

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.

SECTION 16: Other information

Other information : None.

SDS US (GHS HazCom 2012) - Pesticides

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.