



# Bonide Liquid Copper Fungicide Ready to Use

## 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 Ready to Use  
Product code : 6770214

#### 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  
T (315) 736-8231  
[www.bonide.com](http://www.bonide.com)

#### 1.4. Emergency telephone number

Emergency number : 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)

Not classified

#### 2.2. Label elements

##### GHS-US labeling

No labeling applicable

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

#### Mixture

| Name                          | Product identifier | %    | Classification (GHS-US) |
|-------------------------------|--------------------|------|-------------------------|
| Copper Octonate (Copper Soap) |                    | 0.08 | Not classified          |

### 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 for 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. Obtain emergency medical attention.

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

Symptoms/injuries after inhalation : May cause irritation of the mucous membranes.  
Symptoms/injuries after skin contact : Excessive exposure, especially if prolonged, may cause skin irritation.  
Symptoms/injuries after eye contact : May be irritating to the eyes.  
Symptoms/injuries after ingestion : Ingestion of copper salts may result in irritation of the gastrointestinal tract.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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### 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. Avoid (reject) fire-fighting water to enter environment.  
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.

##### 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.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### 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. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Bonide Liquid Copper Fungicide Ready to Use

|      |      |    |
|------|------|----|
| DNEL | DNEL | >= |
|------|------|----|

#### 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.  
Color : Blue.

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|   |                       |
|---|-----------------------|
| Odor  | : Fatty odor.         |
| Odor threshold                              | : No data available   |
| pH  | : 5.25 - 6.25         |
| Relative evaporation rate (butyl acetate=1) | : No data available   |
| Melting point                               | : No data available   |
| Freezing point                              | : No data available   |
| Boiling point                               | : 100 °C              |
| Flash point                                 | : No data available   |
| Self ignition temperature                   | : No data available   |
| Decomposition temperature                   | : No data available   |
| Flammability (solid, gas)                   | : No data available   |
| Vapor pressure                              | : No data available   |
| Relative vapor density at 20 °C             | : No data available   |
| Relative density                            | : 1                   |
| Solubility                                  | : Disperses in water. |
| Log Pow                                     | : No data available   |
| Log Kow                                     | : No data available   |
| Viscosity, kinematic                        | : No data available   |
| Viscosity, dynamic                          | : No data available   |
| Explosive properties                        | : No data available   |
| Oxidizing properties                        | : No data available   |
| Explosive limits                            | : No data available   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|  |                                     |
|--|-------------------------------------|
| Acute toxicity                                   | : Not classified                    |
| Skin corrosion/irritation                        | : Not classified<br>pH: 5.25 - 6.25 |
| Serious eye damage/irritation                    | : Not classified<br>pH: 5.25 - 6.25 |
| Respiratory or skin sensitization                | : Not classified                    |
| Germ cell mutagenicity                           | : Not classified                    |
| Carcinogenicity                                  | : Not classified                    |
| Reproductive toxicity                            | : Not classified                    |
| Specific target organ toxicity (single exposure) | : Not classified                    |

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|   |   |
|---|---|
| Specific target organ toxicity (repeated exposure)  | : Not classified  |
| Aspiration hazard                                   | : Not classified  |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met.                 |
| Symptoms/injuries after inhalation                  | : May cause irritation of the mucous membranes.                                     |
| Symptoms/injuries after skin contact                | : Excessive exposure, especially if prolonged, may cause skin irritation.           |
| Symptoms/injuries after eye contact                 | : May be irritating to the eyes.  |
| Symptoms/injuries after ingestion                   | : Ingestion of copper salts may result in irritation of the gastrointestinal tract. |

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

##### Bonide Liquid Copper Fungicide Ready to Use

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

#### 12.3. Bioaccumulative potential

##### Bonide Liquid Copper Fungicide Ready to Use

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### 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

In accordance with DOT

No dangerous good in sense of transport regulations

#### Additional information

Other information : No supplementary information available.

### 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, absorbed through skin, or inhaled.

#### 15.1. US Federal regulations

No additional information available

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

No additional information available

### 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.*