### 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
T (315) 736-8231
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper Octonate (Copper Soap)</td>
<td>CAS # 20543-04-8</td>
<td>10</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### 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. Obtain emergency medical attention.

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.

### SECTION 5: Firefighting measures

5.1. **Extinguishing media**
Bonide Liquid Copper Fungicide Concentrate
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

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.

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.
Incompatible materials: Sources of ignition.

7.3. Specific end use(s)
No additional information available

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 - 7.5
### 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 - 1.1

### Solubility
: Dispersable 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

- **Serious eye damage/irritation**
  : Not classified

- **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

- **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.

### SECTION 12: Ecological information

12.1. **Toxicity**
No additional information available

12.2. **Persistence and degradability**

<table>
<thead>
<tr>
<th>Bonide Liquid Copper Fungicide Concentrate</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not established.</td>
</tr>
</tbody>
</table>

12.3. **Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Bonide Liquid Copper Fungicide Concentrate</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not established.</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Waste disposal recommendations</th>
<th>Dispose in a safe manner in accordance with local/national regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - waste materials</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

### 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 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.

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.