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

1.1. Product identifier

Product name: Bonide Fung-Onil Multi-Purpose Fungicide RTU
Product code: 4410

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>Mixture</th>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chlorothalonil</td>
<td>(CAS No) 1897-45-6</td>
<td>0.087</td>
<td>Acute Tox. 2 (Inhalation:dust,mist), H330, Carc. 2, H351</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.

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

No additional information available
# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

| 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. Notify authorities if liquid enters sewers or 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**: Keep only in the original container in a cool, well ventilated place away from children. 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

**Color**: Milky
Odor: Mild
Odor threshold: No data available
pH: 6.5 - 8
Relative evaporation rate (butyl acetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: 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
Not established.

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

Chlorothalonil (1897-45-6)
LD50 oral rat: > 5000 mg/kg (Rat)
LD50 dermal rat: > 10000 mg/kg (Rat)
LD50 dermal rabbit: > 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l): 0.22 mg/l/4h (Rat)
Skin corrosion/irritation: Not classified
pH: 6.5 - 8
Serious eye damage/irritation: Not classified
pH: 6.5 - 8
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

Chlorothalonil (1897-45-6)
IARC group: 2B - Possibly Carcinogenic to Humans
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
12.2. Persistence and degradability

Bonide Fung-Onil Multi-Purpose Fungicide RTU
Persistence and degradability Not established.

Chlorothalonil (1897-45-6)
Persistence and degradability Not readily biodegradable in water.

12.3. Bioaccumulative potential

Bonide Fung-Onil Multi-Purpose Fungicide RTU
Bioaccumulative potential Not established.

Chlorothalonil (1897-45-6)
BCF fish 1 < <0.1/125, Cyprinus carpio
BCF other aquatic organisms 1 0.02 mg/l (336 h; Algae)
Log Pow 2.94
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

Chlorothalonil (1897-45-6)
Ecology - soil Not toxic to bees.

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: KEEP OUT OF REACH OF CHILDREN
Harmful if swallowed or absorbed through skin or inhaled.
Causes moderate eye irritation.

15.1. US Federal regulations
No additional information available

15.2. International regulations

15.2.2. National regulations

Chlorothalonil (1897-45-6)
Listed on IARC (International Agency for Research on Cancer)
### 15.3. US State regulations

<table>
<thead>
<tr>
<th>Chlorothalonil (1897-45-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Carcinogens List</td>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
</tr>
<tr>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

**Chlorothalonil (1897-45-6)**

U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

Other information: None.

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Acute Tox. 2 (Inhalation:dust,mist)</th>
<th>Acute toxicity (inhalation:dust,mist) Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carc. 2</td>
<td>Carcinogenicity Category 2</td>
</tr>
<tr>
<td>H330</td>
<td>Fatal if inhaled</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
</tbody>
</table>

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.*