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

1.1. Product identifier
Product name: Bonide Tomato & Vegetable Ready to Use
Product code: 67702154

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Insecticide, 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)
Flam. Liq. 3

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US)

Signal word (GHS-US): Warning
Hazard statements (GHS-US): Flammable liquid
Precautionary statements (GHS-US)
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P280 - Wear gloves
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P370+P378 - In case of fire: Use water, CO2, or foams for extinction
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to in accordance with local/regional/national regulations

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>Sulfur, solid</td>
<td>(CAS No) 7704-34-9</td>
<td>0.2</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
| Pyrethrins       | (CAS No) 8003-34-7 | 0.01| Acute Tox. 3 (Oral), H301
|                  |                    |     | Acute Tox. 3 (Inhalation:vapor). |
**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**: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
- **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

- **General measures**: Remove ignition sources. Use special care to avoid static electric charges.

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. Use only non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

- **Technical measures**: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
### Storage conditions
- Keep only in the original container in a cool, well ventilated place away from children. Keep in fireproof place. Keep container tightly closed.

### Incompatible products
- Strong bases.
- Strong acids.

### Incompatible materials
- Sources of ignition.
- Heat sources.

### Specific end use(s)
No additional information available

### SECTION 8: Exposure controls/personal protection

#### Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>Control Parameter</th>
<th>USA ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrins (8003-34-7)</td>
<td>ACGIH TWA (mg/m³)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Sulfur, solid (7704-34-9)</td>
<td>ACGIH TWA (mg/m³)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

#### Exposure controls

- 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

#### Information on basic physical and chemical properties

- Physical state: Liquid
- Appearance: Opaque to pale yellow liquid.
- Color: Opaque to light yellow.
- Odor: Alcohol odor.
- Odor threshold: No data available
- pH: >= 4.75
- Relative evaporation rate (butyl acetate=1): No data available
- Melting point: No data available
- Freezing point: No data available
- Boiling point: > 100 °F
- Flash point: 123 °F

#### Other information
No additional information available

### SECTION 10: Stability and reactivity

#### Reactivity
No additional information available

#### Chemical stability
Stable under normal conditions.

#### Possibility of hazardous reactions
Not established.

#### Conditions to avoid
Extremely high or low temperatures.

#### Incompatible materials
Strong acids. Strong bases.

#### Hazardous decomposition products
No additional information available.
**SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

**Acute toxicity**
Not classified

**Pyrethrins (8003-34-7)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>200 mg/kg (Rat)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>3.4 mg/l/4h (Rat)</td>
</tr>
</tbody>
</table>

**Sulfur, solid (7704-34-9)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 9.23 mg/l/4h (Rat)</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
Not classified

**pH**:

- Not classified
- pH: >= 4.75

**Serious eye damage/irritation**
Not classified

**pH**:

- Not classified
- pH: >= 4.75

**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**

**Pyrethrins (8003-34-7)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>0.049 mg/l (96 h; Lepomis macrochirus)</td>
</tr>
<tr>
<td>LC50 other aquatic organisms 1</td>
<td>0.011 mg/l (96 h; Gammarus sp.)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>0.009 mg/l (96 h; Ictalu punctatus)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>0.011 mg/l (96 h; Gammarus sp.)</td>
</tr>
</tbody>
</table>

**Sulfur, solid (7704-34-9)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>866 mg/l (96 h; Brachydianio rerio)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>&gt; 100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>10000 ppm (96 h; Gambusia affinis)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>&gt; 10000 mg/l (24 h; Daphnia magna)</td>
</tr>
</tbody>
</table>

**12.2. Persistence and degradability**

**Bonide Tomato & Vegetable Ready to Use**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

**Pyrethrins (8003-34-7)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Readily biodegradable in water.</td>
</tr>
</tbody>
</table>

**Sulfur, solid (7704-34-9)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.</td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Bonide Tomato & Vegetable Ready to Use
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Bonide Tomato &amp; Vegetable Ready to Use</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pyrethrins (8003-34-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>6.15 (Estimated value)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sulfur, solid (7704-34-9)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>0.23 (Estimated value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Pyrethrins (8003-34-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - soil</td>
<td>Not toxic to plants. Toxic to bees.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sulfur, solid (7704-34-9)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - soil</td>
<td>Not toxic to bees.</td>
</tr>
</tbody>
</table>

12.5. Other adverse effects

<table>
<thead>
<tr>
<th>Other information</th>
<th>Avoid release to the environment.</th>
</tr>
</thead>
</table>

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. Dispose of contents/container to in accordance with local/regional/national regulations.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Ecology - waste materials</th>
<th>Avoid release to the environment.</th>
</tr>
</thead>
</table>

SECTION 14: Transport information

DOT Classification – BY GROUND ONLY – this product must be labeled and shipped as:

Limited Quantity

Per 49CFR
NA Number – 1993
Packaging Group – III
Proper Shipping Name – FLAMMIBLE LIQUID, N.O.S. (ISOPROPANOL, PYRETHRINS)
RQ – 10,000 LBS

Additional information

<table>
<thead>
<tr>
<th>Other information</th>
<th>No supplementary information available.</th>
</tr>
</thead>
</table>

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:
Causes moderate eye irritation.

15.1. US Federal regulations

No additional information available

15.2. International regulations

No additional information available

15.3. US State regulations

<table>
<thead>
<tr>
<th>Pyrethrins (8003-34-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Massachusetts - Right To Know List</td>
<td></td>
</tr>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
<td></td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sulfur, solid (7704-34-9)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 16: Other information

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.