Bonide BT Bacillus Thuringiensis 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 BT Bacillus Thuringiensis Ready to Use
Product code: 70051-113-4

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Insecticide

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

Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacillus thuringiensis subsp. kurstaki</td>
<td>(CAS No) 68038-71-1</td>
<td>9.83</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.
Symptoms/injuries after ingestion: If a large amount has been ingested and emesis is inadequate, lavage stomach. Treat symptomatically.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
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<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>Do not use a heavy water stream.</th>
</tr>
</thead>
</table>

5.2. Special hazards arising from the substance or mixture
No additional information available

<table>
<thead>
<tr>
<th>Firefighting instructions</th>
<th>Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection during firefighting</td>
<td>Do not enter fire area without proper protective equipment, including respiratory protection.</td>
</tr>
</tbody>
</table>

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>Evacuate unnecessary personnel.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For emergency responders</td>
<td>Equip cleanup crew with proper protection.</td>
</tr>
<tr>
<td>Protective equipment</td>
<td>Ventilate area.</td>
</tr>
</tbody>
</table>

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
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
Store in original container and cool place. Activity may be impaired by storage above 90°F. Keep container closed when not in use. Keep out of reach of children.

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
Avoid all unnecessary exposure.
Wear protective gloves.
Chemical goggles or safety glasses.
Wear approved mask.
When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Tan liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Tan</td>
</tr>
<tr>
<td>Odor</td>
<td>Earthy</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>4.0-5.0</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>32 °F</td>
</tr>
</tbody>
</table>
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Freezing point : 32 °F
Boiling point : 212 °F
Flash point : Not Determined
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 : 0.955- 1.055 g/ml
Solubility : No data available
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : None
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
Not reactive

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Known known.

10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified
Skin corrosion/irritation : Slightly irritating
Serious eye damage/irritation : Mildly irritating
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.
Symptoms/injuries after ingestion : If a large amount has been ingested and emesis is inadequate, lavage stomach. Treat symptomatically.
**SECTION 12: Ecological information**

### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Test Species</th>
<th>Test method</th>
<th>Test substance</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Bobwhite</td>
<td>5 day</td>
<td>Similar Btk strain</td>
<td>LC50 &gt; 3.86 x 10^9 CFU/kg body weight</td>
</tr>
<tr>
<td><em>Oncorhynchus mykiss</em></td>
<td>30 day</td>
<td>Similar Btk strain</td>
<td>LC50 &gt; 1 x 10^8 CFU/mL</td>
</tr>
<tr>
<td><em>Daphnia magna</em></td>
<td>48 hour, static</td>
<td>Similar Btk strain</td>
<td>EC50 &gt; 1 x 10^8 CFU/mL</td>
</tr>
<tr>
<td><em>Apis mellifera L</em></td>
<td>10 day</td>
<td>Btk strain SA-12 (active ingredient strain)</td>
<td>Not active on honey bees</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

**Bonide BT Bacillus Thuringiensis Ready to Use**

Persistence and degradability: *Bacillus thuringiensis* subspecies *kurstaki* (Btk) shows a rapid loss of activity in response to UV light.

### 12.3. Bioaccumulative potential

**Bonide BT Bacillus Thuringiensis Ready to Use**

Bioaccumulative potential: Btk is not pathogenic and does not reproduce in living organisms other than target Lepidopteran larvae.

### 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

**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. Avoid contact with eyes or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling.

### 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.