



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 : 700511134

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
6301 Sutliff Road
Oriskany, NY 13424

Telephone Number: (315) 736-8231
Comment: Bonide hours of operation are 8:00 a.m. to 4:30 p.m EST.

Website: www.bonide.com

Email address: sales@bonide.com

1.4. Emergency telephone numbers (24 hour)

Medical : SafetyCall - (833) 972-1101
Spills : 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

SECTION 3: Composition/information on ingredients

Mixture

Name	Product identifier	%
<i>Bacillus thuringiensis kurstaki</i> Strain SA-12	(CAS No) 68038-71-1	9.83

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 medical attention.

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

May cause minor eye or skin irritation. May cause mild sensitization.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media : Water

5.2. Special hazards arising from the substance or mixture

None known

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5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear protective clothing and self-contained breathing apparatus. Fight fire from a safe distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid substance contact. Ensure adequate ventilation. Evacuate the area and observe emergency procedures.

6.1.2. For emergency responders

Emergency procedures : Use appropriate personal protective equipment. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Environmental precautions

To protect the environment do not allow pesticide to enter or run off into storm drains, ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over treated area will help avoid run off to water bodies or drainage systems.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Caution: spillages may be slippery. For small spills, contain the spill with absorbent material and stop the flow. Prevent contamination of water sources. Collect as much material as possible. Transfer to a suitable, clean container for disposal or recovery. Seal the container and handle in an approved manner. Reclaim material if possible. Dispose of in accordance with all Federal, State and local procedures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling. Always shake thoroughly before use. Shake regularly while spraying.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Avoid unnecessary exposure.
Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.
Respiratory protection : None specified
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 : Tan liquid
Color : Tan
Odor : Earthy
Odor threshold : No data available
pH : 4.0 - 5.0
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : 32 °F (0 °C)
Freezing point : 32 °F (0 °C)
Boiling point : 212 °F (100 °C)

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Flash point	: Not Determined
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
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	: Not explosive
Oxidizing properties	: No data available
Explosive limits	: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive

10.2. Chemical stability

Chemically stable if stored and handled properly according to the label.

10.3. Possibility of hazardous reactions

No known or expected hazardous reactions when handled and stored according to stated provisions.

10.4. Conditions to avoid

Do not freeze.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Likely Routes of Exposure

Oral, dermal, ocular, inhalationRevision

11.2. Symptoms Related To Physical, Chemical, And/Or Toxicological Characteristics

May cause minor eye or skin irritation. May cause mild skin sensitization.

11.3. Effects (Delayed/Immediate/Chronic) From Short- And Long-Term Exposure

See section 4.

11.4. Acute Toxicity

Test	Results	US EPA Toxicity Category
Acute oral LD50	No toxicity or infectivity (test material: 100% Btk SA-12)	IV
Acute dermal LD50	No toxicity observed (test material: 100% Btk SA-12)	IV
Acute inhalation LC50	No toxicity or infectivity (test material: 100% Btk SA-12)	IV
Eye irritation:	Moderately and reversibly irritating (test material: Thuricide® HPC)	III
Skin irritation:	Slightly irritating (test material: Thuricide® HPC)	IV
Respiratory or skin sensitization:	Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.	Not applicable

11.5. Other Information On Adverse Health Effects

Carcinogenicity NTP: not listed

IARC: not listed

OSHA: not listed

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SECTION 12: Ecological information

12.1. Toxicity

Test Species	Test method	Test substance	LC50
Northern Bobwhite	5 day	Similar Btk strain	LC ₅₀ > 3.86 x 10 ⁹ CFU/kg body weight
<i>Oncorhynchus mykiss</i>	30 day	Similar Btk strain	LC ₅₀ > 1 x 10 ⁸ CFU/mL
<i>Daphnia magna</i>	48 hour, static	Similar Btk strain	EC ₅₀ > 1 x 10 ⁸ CFU/mL
<i>Apis mellifera</i> L	10 day	Btk strain SA-12 (active ingredient strain)	Not active on honey bees

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bacillus thuringiensis subspecies *kurstaki* (Btk) is not pathogenic and does not reproduce in living organisms other than target Lepidopteran larvae.

12.4. Mobility in soil

Btk is not expected to move or leach.

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

Not regulated for transport by DOT.

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.

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.