



THURICIDE BT CATERPILLAR CONTROL Safety Data Sheet

1. IDENTIFICATION

1.1. Product identifier

Product name: Thuricide BT Caterpillar Control
EPA reg. No. 70051-106-829
Product Type: Liquid Concentrate Biological Insecticide
Active Ingredient: *Bacillus thuringiensis* subspecies *kurstaki* strain SA-12
CAS No.: Not Available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Biological Insecticide
Uses advised against: Any use not listed on the label.

1.3. Details of the supplier of the safety data sheet

Company: Southern Agricultural Insecticides, Inc
P.O. Box 218
Palmetto, FL 34220
Phone: (941) 722-3285

1.4. Emergency telephone number: Chemtrec: (800) 424-9300 (24 hour transportation spill response)

2. HAZARD(S) IDENTIFICATION

2.1. Classification of the substance or mixture

Hazard Classification: Not classified as hazardous
Signal Word: None
Hazard Statements: None
Pictogram: None
Precautionary Statements: Refer to Section 15 for label precautionary statements.

2.2 Other Hazards: None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance composition

Ingredient	Cas number	% by Weight
<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i> strain SA-12 solids, spores, and Lepidopteran active toxins.	68038-71-1	98.35

4. FIRST AID MEASURES

4.1. Description of first aid measures

Generic measures Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If in Eyes: Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses if present after the first 5 minutes, then continue rinsing. Call poison control center or doctor for treatment advice.

If on Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

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

Skin/eye irritation

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

None specified

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media: All extinguishing media

Unsuitable Extinguishing Media: None known

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: None known

5.3. Advice for firefighters

Protection of Firefighters: None specified

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: None specified

For emergency responders: None specified

6.2. Environmental precautions

To protect the environment do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when no rain is predicted for the next 24 hours will help ensure that wind or rain will not blow or wash pesticide off the treatment area. Rinsing application equipment over the treatment area will help avoid run off to water bodies or drainage systems.

6.3. Methods and material for containment and cleaning up

Methods for Containment: For small spills soak up with pet liter or similar absorbent material place into a sealed container and dispose of according to Federal State and local regulations.

6.4. Reference to other sections

See Section 8 for occupational exposure limits and risk management measures. Refer to Section 13 for disposal considerations.

7. HANDLING AND STORAGE

7.1. 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.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Store in a cool dry place. Activity may be impaired by storage at temperatures above 90°F.

7.3. Specific end use(s)

Rinsing application equipment over the treatment area will help avoid run off to water bodies or drainage systems.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

OSHA Permissible Exposure Limits (PELs): Not determined

ACGIH Threshold Limit Values: Not determined

Other Exposure Limits: Not determined

8.2. Exposure controls

Engineering Controls:	None specified
Personal Protective Equipment:	None specified
Eye/Face Protection:	None specified
Skin Protection	None specified
Hand Protection:	None specified
Body Protection:	None specified
Respiratory Protection:	None specified
Thermal Hazards:	None known
General Hygiene Considerations:	Wash thoroughly with soap and water after handling.
Environmental exposure controls:	To protect the environment do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Brown liquid
Odour:	Yeasty
Odour Threshold:	Not determined
pH:	4.4-5.5
Melting Point / Freezing Point:	Not determined
Initial Boiling Point:	Not determined
Boiling Range:	Not determined
Flash Point:	Not determined
Evaporation Rate:	Not determined
Flammability (solid, gas):	Not determined
Lower & Upper Flammability Limits:	Not determined
Vapour Pressure:	Not determined
Vapour Density:	Not determined
Density:	8.4 lb./gal.
Solubility:	Not determined
Partition Coefficient (n-octanol/water):	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Not determined
Explosive Properties:	None known
Oxidising Properties:	None known

9.2. Other information

Not available.

10. STABILITY AND REACTIVITY

<u>10.1. Reactivity</u>	Not available
<u>10.2. Chemical stability</u>	Not available
<u>10.3. Possibility of hazardous reactions</u>	Not available
<u>10.4. Conditions to avoid</u>	Activity may be impaired by storage at temperatures >90°C
<u>10.5. Incompatible materials</u>	Not available
<u>10.6. Hazardous decomposition products</u>	Not available

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Likely routes of exposure: Eyes, skin

Toxicological information on the substance or mixture:

LD₅₀ (oral) No toxicity or infectivity, Toxicity Category IV

LD₅₀ (dermal) No toxicity observed, Toxicity Category IV

LC₅₀ (inhalation) No toxicity or infectivity, Toxicity Category IV

Skin corrosion/irritation: Slightly irritating

Eye irritation: Mildly irritating

Respiratory or skin sensitization: Not available

Other information on adverse health effects:

Carcinogenicity

NTP Listed: Not applicable

IARC Listed: Not applicable

OSHA: Not applicable

11.2 Reference to other sections

See Section 4 for symptoms and acute and delayed effects.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

<u>Test species</u>	<u>Test method</u>	<u>Test substance</u>	<u>LC₅₀-</u>
Northern Bobwhite	5 day	Similar Btk strain (AI)	LC ₅₀ > 3.86 x 10 ⁹ CFU/kg body weight
<i>Oncorhynchus mykiss</i>	3-day	Similar Btk strain (AI)	LC ₅₀ > 1 X 10 ⁸ CFU/mL
<i>Daphnia magna</i>	48 hour, static	Similar Btk strain (AI)	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

Btk is not pathogenic and does not reproduce in living organisms other than target Lepidopteran larvae

12.4. Mobility in soil Low based on scientific data for Btk.

12.5. Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal Instructions:

Pesticide Storage:

Store in a cool place. Activity may be impaired by storage at temperatures above 90°F.

Pesticide Disposal and Container Handling: Non-refillable container. Do not reuse or refill this container.

-for containers less than or equal to 5 gallons-

If empty: Place in trash or offer for recycling.

If partly filled: Call your local solid waste agency for disposal instructions. Never place any unused product down any indoor or outdoor drain.

- for containers greater than 5 gallons-

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ~ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

14.1. UN number	Not regulated.	14.2. UN proper shipping name	Not regulated.
14.3. Transport hazard class(es)	Not regulated.	14.4. Packing group	Not regulated.
14.5. Environmental hazards	Not regulated.	14.6. Special precautions for user	Not regulated.
14.7. Transport in bulk according to Annex" of MARPOL73/78 and the IBC Code	Not regulated.		

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EPA: This product is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticidal chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION, KEEP OUT OF REACH OF CHILDREN

Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Avoid breathing vapors or spray mists.

<u>OSHA</u>	N/A
<u>TSCA Status:</u>	Exempt
<u>CERCLA Reportable Quantity:</u>	N/A
<u>SARA Title III:</u>	
Section 302:	N/A
Section 311/312:	N/A
Section 313:	N/A
<u>RCRA Status:</u>	N/A

16. OTHER INFORMATION

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, Southern Agricultural Insecticides, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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SDS prepared by:	Certis U.S.A.L.L.C.