



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 8, 2018

Frederick T. Smith  
Authorized Agent to AEF Global Inc.  
SciReg, Inc.  
12733 Director's Loop  
Woodbridge, VA 22192

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling and Formulation  
Amendment – Revisions to the Label, the Basic Confidential Statement of Formula  
(CSF), and Alternate CSF #1  
Product Name: Bioprotec Caterpillar Insecticide Concentrate  
EPA Registration Number: 89046-11  
Application Date: 12/12/2017  
OPP Decision Number: 536671

Dear Mr. Smith:

The amended labeling and Confidential Statements of Formula (CSFs) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

Please note that the record for this product currently contains the following acceptable CSFs:

- Basic CSF dated 12/12/2017
- Alternate CSF #1 dated 12/12/2017

Any CSFs other than those listed above are superseded/no longer valid.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Seiichi Murasaki at (703) 347-0163 or [murasaki.seiichi@epa.gov](mailto:murasaki.seiichi@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Jeannine Kausch", with a small "for" written below it.

Jeannine Kausch, Product Manager 92  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

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MASTER LABEL

**BIOPROTEC CATERPILLAR INSECTICIDE CONCENTRATE**

*Alternate brand names:* Bioprotec Caterpillar Killer Concentrate, Bioprotec BT Caterpillar Killer concentrate, Bioprotec Caterpillar Insecticide for Tomato and Vegetable Garden, Bioprotec Caterpillar Killer for Vegetable Garden, Bioprotec BT Caterpillar Killer for Vegetable Garden, Bioprotec Caterpillar Killer for Trees and Shrubs, Bioprotec BT Caterpillar Killer for Trees and Shrubs, Bioprotec Caterpillar Killer for Lawn, Bioprotec BT Caterpillar Killer for Lawn

FOR HOME AND GARDEN USE ON LISTED CATERPILLARS BY RESIDENTIAL APPLICATORS.

**Active Ingredient:**

*Bacillus thuringiensis* ssp. *kurstaki* strain EVB-113-19

fermentation solids, spores and insecticidal toxins.....9.43%\*

**Other Ingredients**.....90.57%

**Total**.....100.00%

\*Potency: 11,400 Cabbage Looper Units (CLU) per mg of product (equivalent to 48 billion CLU per gallon)

The percent active ingredient does not indicate product performance and potency measurements are not federally standardized

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

[See back/inside/side panel for additional precautionary statements.]

**Manufactured [for:] [by:]**

AEF Global, Inc.

925 des Calfats

Lévis, QC

Canada

G6Y 9E8

Toll free help line: 1-866-622-3222

www.aefglobal.com

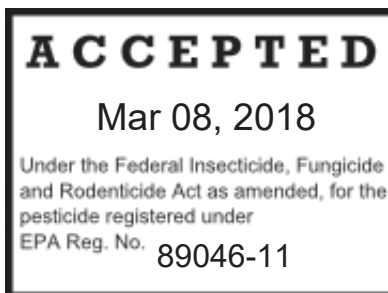
**EPA Reg. No.: 89046-11**

**EPA Est. No.:**

Lot number: \_\_\_\_\_

Net contents: \_\_\_\_\_

Date of Manufacture: \_\_\_\_\_



<b>FIRST AID</b>	
If on skin or clothing:	<ul style="list-style-type: none"> <li>– Take off contaminated clothing.</li> <li>– Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>– Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes:	<ul style="list-style-type: none"> <li>– Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>– Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>– Call a poison control center or doctor for further treatment advice.</li> </ul>
<p align="center"><b>HOT LINE NUMBER</b></p> <p>Have the product container or label with you when calling a poison control center, doctor, or going for treatment. You may contact the National Poison Control Hotline at 1-800-222-1222 for emergency and medical information.</p> <p>For information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Open from 8:00AM to 12:00PM Pacific Time, Mon-Fri.</p>	

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** 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. Wear long-sleeved shirt, long pants, socks and shoes, waterproof gloves, and safety glasses. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS**

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 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 the treated area will help avoid runoff to water bodies or drainage systems.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Only protected handlers may be in the area during applications. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Keep unprotected persons, children, and pets out of treated areas until sprays have dried.

**USE RESTRICTIONS**

Do not apply this product through any type of irrigation system.

**USE INFORMATION**

Bioprotec Caterpillar Insecticide Concentrate contains a bacterium used for controlling leaf feeding caterpillars. Caterpillars stop feeding and foliage damage is prevented when the product is applied as directed. Caterpillars will die within a few days of application. Bioprotec Caterpillar Insecticide Concentrate is UV resistant for up to 7 days.

Bioprotec Caterpillar Insecticide Concentrate is toxic to select species of caterpillars. Bioprotec Caterpillar Insecticide Concentrate is not effective on eggs, pupae and adult moths. Target pests must ingest Bioprotec Caterpillar Insecticide Concentrate for efficacy. Both sides of the foliage where caterpillars are feeding must be thoroughly covered with the spray solution. Bioprotec Caterpillar Insecticide Concentrate is most effective against small, young larvae that are actively feeding. After ingestion, caterpillars cease feeding within a few minutes and death occurs in 2 - 5 days.

**Rate/Dilution**

Use a small backpack or hand held sprayer to apply Bioprotec Caterpillar Insecticide Concentrate. Mix 0.4 fl. oz of Bioprotec Caterpillar Insecticide Concentrate per gallon of water. For high population and larger caterpillars such as Gypsy Moths and Budworms and Cutworms, use 0.8 fl. oz of Bioprotec Caterpillar Insecticide Concentrate per gallon of water. Do not store spray mixture in equipment for more than 18 hours. Allow treated surfaces to dry thoroughly before re-entering treated areas.

Add a portion of the required amount of water to the sprayer first. Next, add the corresponding amount of Bioprotec Caterpillar Insecticide Concentrate and fill the sprayer with the required amount of water. Mix the spray solution vigorously before application.

Coverage: Spray all leaf surfaces thoroughly to provide good coverage without runoff. One gallon of spray solution covers approximately 400 square feet of vegetation.

Timing: Apply at first signs of infestation when larvae are young and small. Repeat applications every 7 - 10 days, if required. In conditions where egg hatch is extended and/or larval population is high, make a second application 3 to 5 days later. Avoid application when rainfall is imminent. Do not use for early morning application if foliage is wet with dew to the point of runoff.

Bioprotec Caterpillar Insecticide Concentrate may be applied up to the day of harvest.

## VEGETABLES AND FRUITS

CROP	TARGET PESTS
Asian Radish Beans Beets Bok Choy Broccoli Brussels Sprouts Cabbage Carrots Cauliflower Celery Chinese Cabbage Chinese Broccoli Collards Cucumbers Endive Eggplant Escarole Kale Kohlrabi Lentils Lettuce Melons Mustard Mustard Greens Parsley Peas Peppers - Sweet Peppers Potatoes Spinach Squash Sweet corn Sweet Potato Tobacco Turnip Greens Tomatoes	Loopers Imported Cabbage Worms Diamond Back Moth European Corn Borer Hornworms Tomato Fruitworms Armyworms Green Cloverworms Melonworms Pickleworms Mimosa Webworms Salt Marsh Caterpillar Corn Earworms Bollworms Tobacco Budworms
<b>Orchards:</b> Apple Apricot Cherry Peach Pear Plum/Prune Blueberries Blackberries Dewberries Grapes Strawberries Cranberries Currants	Fruittree Leafrollers, European Leafrollers Obliquebanded Leafrollers Three-lined Leafrollers Fruitworms White marked Tussock Moth Green and Brown Spanworms Oblique-banded leafrollers Armyworms Grapeleaf Skeletonizer Grape Leafrollers/Leafrollers Hornworms Loopers Salt Marsh Caterpillar

## FRUIT TREES, TREES AND SHRUBS

Spray all leaf surfaces thoroughly to provide good coverage without run-off. For broadleaf trees, apply when leaf expansion reaches 40-50%. For conifers, apply when needle shoot development is sufficient to ensure good deposit. Spray when caterpillars first appear. Repeat after 7 - 10 days, if required.

TARGET PESTS
Gypsy moth Eastern Spruce Budworms Western Spruce Budworms Jack Pine Budworms Forest Tent Caterpillar Eastern Hemlock Loopers Bagworms Elm Spanworms Spring & Fall Cankerworms Satin Moth White Marked Tussock Moth

## FLOWERS AND ORNAMENTAL PLANTS

TARGET PESTS
Loopers Omnivorous Leafrollers Ello Moth (Hornworms) Tobacco Budworms Diamondback Moth Io Moth Omnivorous Loopers Armyworms Oleander Moth Sunflower Moth

## TURF

Apply 2 to 5 gallons of prepared Bioprotec Caterpillar Insecticide Concentrate per 1000 square feet using enough spray volume to obtain thorough coverage. Irrigate the area after application with  $\frac{1}{8}$  inch of water to increase penetration of turf surface. To control Cutworms, use 2 fl. oz. of Bioprotec Caterpillar Insecticide Concentrate.

Coverage: 2.5 gallons of spray solution covers approximately 1000 square foot of vegetation. Apply at first signs of infestation when larvae are young and small. Repeat applications every 7 - 10 days, if required. Avoid application when rainfall is imminent.

Not for use on turf being grown for sale or other commercial use as sod or for commercial seed production or for research purposes.

TARGET PESTS
Cutworms Armyworms Sod Webworms Tropical Sod Webworms

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in the closed, original container in a cool, dry, well-ventilated area. Do not store in direct sunlight. Keep container tightly closed and out of reach of children. Avoid contamination with other pesticides or fertilizers. Use product within 12 months of the date of manufacture. After extended storage, shake or stir contents to assure a uniform suspension.

**Pesticide Disposal and Container handling:** Nonrefillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## WARRANTY

To the extent consistent with applicable law, AEF Global makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

**[Optional Marketing/ Advertising Claims]**

- Always Shake Well Before Using!
- Caterpillar Killer
- For Lawn, Trees, Shrubs & Vegetables
- Caterpillar Killer For Lawn, Trees, Shrubs & Vegetables
- Look for other Bioprotec Brand Products at [www.bioprotec.ca](http://www.bioprotec.ca)
- One container of X will give you Z gallons of spray solution  
(X and Z depend of the container size)
- Stop caterpillar damage within minutes

**[Optional logo/ Marketing Claims]**

- Bioprotec Brand -[Optional logo]
- Recycling of container -[Optional logo]