

PMRA Approved Label  
2023-3354  
2024-02-07

## **BIOPROTEC ECO**

### **DOMESTIC**

#### **Suspension**

#### **FOR THE CONTROL OF CATERPILLARS ON VEGETABLES, FRUITS, AND ORNAMENTAL TREES AND SHRUBS**

**Controls cabbage looper, diamondback moth, imported cabbageworm, leafrollers, spanworms, fruitworms, hornworms, and other listed caterpillars.**

#### **READ THE LABEL BEFORE USING**

#### **POTENTIAL SENSITIZER**

#### **CAUTION EYE IRRITANT**

#### **KEEP OUT OF REACH OF CHILDREN**

#### **ACTIVE INGREDIENT:**

*Bacillus thuringiensis* subspecies *kurstaki*, strain EVB113-19

Potency: 11,400 Cabbage Looper Units (CLU) per mg of product (equivalent to 12.7 billion CLU per litre)

#### **REGISTRATION NO: 27251 PEST CONTROL PRODUCTS ACT**

Net Contents : 100 mL / 200 mL/ 500 mL

Makes 30 / 60 / 160 Litres

Lot No.

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

AEF Global Inc.  
440, 3e avenue, suite 100  
Levis, Qc, Canada G6W 5M6  
Toll-free Help-line: 1-866-622-3222  
[www.aefglobal.com](http://www.aefglobal.com)

Bioprotec ECO is toxic to some species of caterpillars. Bioprotec ECO is not effective on eggs, pupae and adult moths. It is a stomach poison only. Therefore, caterpillars must ingest Bioprotec ECO to be killed. Both sides of foliage where caterpillars are feeding must be thoroughly covered with the spray solution. Bioprotec ECO is most effective against small, young larvae that are actively feeding. After ingestion of a sufficient dose, caterpillars cease feeding within a few minutes and death occurs in 2-5 days.

**DIRECTIONS FOR USE**

**DO NOT APPLY BY AIR.** Use a small backpack or hand held sprayer to apply Bioprotec ECO. Use 30 mL of Bioprotec ECO per 10 litres of water (one bottle will give you 30 / 60 / 160 litres of spray solution). If caterpillars are big, use 60 mL of Bioprotec ECO instead of 30 mL. Add some water to the sprayer and then add the correct amount of Bioprotec ECO. Continue filling the sprayer with water until the correct amount of spray solution is produced. Mix the spray solution vigorously before application. In conditions where egg hatch is extended and/or larval population is high, make a second application 3-5 days later.

Spray all leaf surfaces thoroughly to provide good coverage without run-off. One litre of spray solution covers approximately 10 square metres 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. For early morning application, foliage should not be wet with dew to the point of runoff. **DO NOT** allow spray mixture to stand in the sprayer for more than 18 hours.

**DO NOT** allow people or pets to re-enter treated areas until sprays have dried.

Preharvest interval: Bioprotec ECO can be used up to and including the day of harvest. PHI=0 days.

**DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

**DO NOT** apply directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), estuaries or marine habitats. Avoid application of this product when winds are gusty.

**DO NOT** apply by any type of irrigation system.

**GARDEN USES (VEGETABLES and FRUITS):**

CROP	PEST SPECIES
Asian Radish, Bok Choy, Broccoli, Brussels Sprouts, Cabbages, Cauliflowers, Celery, Chinese Cabbages, Chinese Broccoli, Collards, Kale, Lettuces, Mustard Greens, Parsley, Potatoes, Spinach, Turnip Greens	Cabbage Looper, Imported Cabbageworm, Diamondback Moth

Sweet Peppers	European Corn Borer
Orchards: Apple, Apricot, Cherry, Peach, Pear Plum/Prune	Leafrollers (Fruit tree, European, Obliquebanded, Threelined) and Fruitworms
Tomatoes	Hornworms, Tomato Fruitworm, Cabbage Looper, Imported Cabbageworm, Diamondback Moth
Blueberries	Whitemarked Tussock Moth
Sunflowers	Sunflower Moth
Cranberries	Green and Brown Spanworms
Raspberries	Obliquebanded leafroller

### GREENHOUSE USES:

CROP	PEST SPECIES
Vegetables (Tomatoes, Lettuces, Cucumbers, Peppers)	Cabbage Looper, Tomato Hornworm
Chrysanthemums	Cabbage Looper
Roses	Omnivorous Leafroller

### ORNAMENTAL TREE AND SHRUB USES:

HOST	PEST SPECIES
Ornamental Urban Trees	Whitemarked Tussock Moth
Boxwood	Box Tree Moth

### PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. MAY CAUSE SENSITIZATION.

May irritate eyes. Avoid contact with skin, eyes or clothing. Avoid breathing dust/spray mist. Wear a long-sleeved shirt, long pants, waterproof gloves, shoes and socks as well as eye goggles when handling, or applying the product and during all cleanup activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Apply only when the potential for drift beyond the area to be treated is minimal.

### FIRST AID

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

## **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

## **ENVIRONMENTAL PRECAUTIONS**

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

## **STORAGE**

In order to ensure microbial purity and potency, Bioprotec ECO should be stored in the original container at a temperature between 4°C and 20°C and be used within 18 months from the date of manufacture. Store container upright and keep tightly closed when not in use. After extended storage, shake or stir contents to assure a uniform suspension.

## **DISPOSAL**

DO NOT reuse the empty container. Dispose in household garbage. Unused or partially used products should be disposed at provincially or municipally designated hazardous waste disposal sites.

## **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

**Bioprotec ECO is a registered trademark of AEF Global Inc.**