

2020-3196  
2021-08-03

**BIOCERES EC**

**COMMERCIAL**

**Biological Mycoinsecticide**

**Emulsifiable Concentrate**

For reduction in numbers of whiteflies, aphids, thrips and two-spotted spider mites in greenhouse tomatoes, cucumber, lettuce, eggplant, peppers, Asian water spinach, herbs and spices (Crop Group 19), mint, Brassica vegetable transplants, sweet potato slips, strawberry and ornamentals; and in cannabis (marihuana) produced commercially indoors.

**KEEP OUT OF REACH OF CHILDREN**

**READ THE LABEL BEFORE USING**

**POTENTIAL SKIN SENSITIZER  
CAUTION EYE IRRITANT**

Warning, this product contains the allergen soy.

**ACTIVE INGREDIENT:** *Beauveria bassiana* strain ANT-03 contains at least  $1 \times 10^{10}$  spores (conidia)/mL

**REGISTRATION NO 33493 PEST CONTROL PRODUCTS ACT**

**Net Contents: 1 to 20 Litres**

**Lot No.**

**Date of manufacture:** \_\_\_\_\_

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## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

May cause sensitization. May cause eye irritation

Avoid contact with eyes, skin and clothing.

Avoid inhaling/breathing mist.

Wear waterproof gloves, long-sleeved shirt, long pants, goggles, socks and shoes, as well as NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter when handling, mixing/loading or applying the product and during all clean-up/repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

Re-entry Interval (REI): DO NOT re-enter or allow re-entry into treated areas for 4 hours or until sprays have dried, unless wearing appropriate personal protective equipment including long-sleeved shirt, long pants, waterproof gloves, socks and shoes.

## FIRST AID

**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.

**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 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 the poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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

## TOXICOLOGICAL INFORMATION:

Treat symptomatically.

## ENVIRONMENTAL PRECAUTIONS:

The potential effects of this product on some non-target beneficial insects and pollinators, that may be used in greenhouse Integrated Pest Management Programs (IPM), are not known. May be harmful to beneficial insects. Avoid direct contact with beneficial insects when using spray applications. This product may be toxic to bees exposed to direct treatment, or drift. **DO NOT** apply this product while bees are actively foraging. **DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.**

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

## STORAGE

Can be stored up to 18 months at 4°C in a refrigerator or for 6 months at room temperature ( 20-25 °C) Tightly reclose the container of unused product.

The BIOCERES EC contains live spores of the naturally occurring fungus, *B. bassiana*. Spores maybe damaged by storage at high temperatures (higher than 25°C) or contact with water for more than 24 hours.

To prevent contamination, store this product away from food or feed.

### **GENERAL INFORMATION**

BIOCERES EC is an emulsifiable concentrate formulation containing live spores of the naturally occurring fungus *Beauveria bassiana* strain ANT-03 as the active ingredient.

### **BIOCERES EC reduces numbers of:**

Whiteflies, aphids, thrips and two-spotted spider mites in greenhouse tomatoes, cucumber, lettuce, eggplant, peppers, herbs and spices (Crop Group 19\*), Brassica vegetable transplants, onion transplants, sweet potato slips, Asian water spinach (tung choy, kankon, rao muong), mint, strawberry and ornamentals; and in cannabis (*marihuana*) produced commercially indoors.

**\*Crop Group 19: Herbs and Spices:** allspice, angelica, anise seeds, star anise, annatto seeds, balm (lemon balm), basil, borage, burnet, chamomile, caper buds, caraway, black caraway, cardamom, cassia bark, cassia buds, catnip, celery seeds, chervil (dried), chive, Chinese chive, cinnamon, clary, clove buds, coriander leaves (cilantro or Chinese parsley), coriander seeds, costmary, culantro leaves, culantro seeds, cumin, curry leaves, dill (dillweed), dill seeds, common fennel, Florence fennel seeds, fenugreek, grains of paradise, horehound, hyssop, juniper berry, lavender, lemongrass, lovage leaves, lovage seeds, mace, marigold, marjoram (includes sweet or annual marjoram, wild marjoram or oregano and pot marjoram), mustard seeds, nasturtium, nutmeg, parsley (dried), pennyroyal, black pepper, white pepper, poppy seeds, rosemary, rue, saffron, sage, savory (summer and winter), sweet bay (bay leaf), tansy, tarragon, thyme, vanilla, wintergreen, woodruff and wormwood.

### **DIRECTIONS FOR USE**

This product may be applied with conventional hand-held, and/or ground spray equipment. Use freshly prepared spray solution each time. Begin treatment of crops at the first appearance of the insect pest. Application rates, frequency, spray coverage and insect numbers impact the speed at which acceptable control is achieved. BIOCERES EC is most effective when used early, before high insect populations develop. It takes 5-7 days after the first application to observe control. Reapply as necessary. Multiple applications may be required to reduce numbers of target pests.

**Do not mix with fungicide.** If a fungicide must be used, make the application of the fungicide at least 4 days before the BIOCERES EC application or at least 2 days after the BIOCERES EC application.

To assess for potential phytotoxicity, test BIOCERES EC on a small number of plants prior to widespread application.

### **APPLICATION RATE**

Apply at a concentration of 2-4 mL (4 mL for two-spotted spider mites) BIOCERES EC/L water depending on insect population density. Use spray volume sufficient to cover foliage infested with insect pests. Crop size and spray equipment will determine spray volume needed. Depending on crop treated 500 to 1000 L of spray volume will typically be required for 1 ha.

### **MIXING INSTRUCTIONS**

Use freshly prepared spray solution each time.

How to mix a solution of 2 to 4 mL BIOCERES EC per litre of water:

1. Shake the BIOCERES EC bottle to suspend the conidia in the formulation.
2. Add the appropriate volume of BIOCERES EC into a spray tank containing of water.
3. Keep a constant agitation in the spray tank. An emulsifying agent may be added.

### **APPLICATION FREQUENCY AND TIMING**

Reapply within a 7-day interval. In case of pest outbreak, the product can be used every 3-5 days. Multiple applications may be required to reduce numbers of target pests. There is no limit on number of applications.

### **PRE-HARVEST INTERVALS**

Pre-harvest interval for BIOCERES EC is zero (0) days and it can be applied up to the day of harvest.

### **DISPOSAL**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### **NOTICE TO USER**

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