



Bioceres GR

Biological insecticide

For control of chinch bug, larvae of European chafer and Japanese beetle

EPA REGISTRATION NO. 89600-7

EPA ESTABLISHMENT NO. 93280-CAN-1

ACTIVE INGREDIENT:

Beauveria bassiana strain ANT-03*7.0%

OTHER INGREDIENTS: 93.0%

TOTAL: 100.0%

*Contains a minimum of 2 X 10⁹ viable conidia/gram of product.

Net contents: 10 kg

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

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 center 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 center or doctor for treatment advice.

If swallowed

- Call a poison control center 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 center or doctor.
- Do not give anything by mouth to an unconscious person.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this product (including general health concerns or pesticidal incidents), call the National Pesticide Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Time (NPIC Website: www.npic.orst.edu). For emergencies, call your local poison control center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if inhaled or swallowed. Avoid contact with eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- protective eyewear
- shoes plus socks

Mixer/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air purifying respirator with an HE filter. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS: When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.607 (d) and (e)), the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: For terrestrial uses - This product may harm beneficial insects and honey bees. Do not apply while bees or other pollinating insects are actively foraging. This product may be harmful to aquatic organisms. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift or runoff. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that

are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

EXCEPTION: If the product is soil incorporated or soil-injected, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water) is: • Protective eyewear • Coveralls • Waterproof gloves • Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are **not** within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

PRODUCT INFORMATION

Bioceres GR is a biological insecticide containing the active ingredient *Beauveria bassiana* strain ANT-03 for use on the following labeled use sites to control soil dwelling insect pests.

USE INSTRUCTIONS

Close scouting and early attention to infestations is highly recommended. Proper timing of application targeting newly hatched larvae or nymphs is important for optimal results.

Thorough coverage of the infested area is necessary for effective control. Bioceres GR does not have systemic activity. Repeat applications at an interval sufficient to maintain control, usually 3-10 days, depending upon insect activity and other factors.

Bioceres GR has been evaluated for phytotoxicity on a variety of plants under various normal growing conditions. However, testing all plant varieties, in all mixtures and combinations, is not feasible. Prior to treating entire area, test a small portion of the area for sensitivity.

GROUND APPLICATIONS

Broadcast Bioceres GR with a suitable method or application equipment to ensure uniform coverage over the treatment area. Irrigate treated area with at least 1/8" of water, or otherwise incorporate Bioceres GR into the top 1-3" of soil. Do not water to the point of run-off.

Repeat at 3- to 10-day intervals as needed. In the case of a pest outbreak, the product can be used every 3-5 days. There is no limit on number of applications.

Apply 2 lbs Bioceres GR per 1000 ft² (1 g Bioceres GR per ft²) for the labeled use sites below.

SOIL AMENDMENT MIX APPLICATIONS

Application instructions for incorporation into soil amendments: Apply Bioceres GR by thoroughly mixing the product into the soil amendment (ex: compost, topsoil, loam), ensuring even distribution. Apply at a rate of **10 oz. of product per cubic yard of soil amendment** for the labeled use sites below.

SOIL MIX APPLICATIONS

Application instructions for incorporation into nursery planting mix: Bioceres GR can be mixed with growing media used in ornamentals or edible container-grown crops (ex: plugs) in greenhouses and outdoor nurseries.

Apply Bioceres GR prior to or during planting by thoroughly mixing the product into the growing medium, ensuring even distribution. **Apply at a rate of 0.5 to 1 lbs of product per cubic yard of growing medium** for the labeled use sites below. Use higher label rates when pest pressure is expected to be high. Do not mix fungicides in a growth medium containing Bioceres GR.

TURFGRASS including but not limited to: **parks, landscapes, golf courses, sod farms, and lawns**

Chinch bugs, white grubs (including, but not limited to: European chafer larvae, Japanese beetle larvae, billbug larvae, black turfgrass ateniens beetle larvae, dichondra flea beetle larvae), mole crickets, sod webworm larvae, Lucerne moth larvae, crane fly larvae, cutworm larvae

INSECTS FOR WHICH BIOCERES GR MAY BE USED FOR THE FOLLOWING LABELED USE SITES

For control of Diaprepes root weevil, Black vine weevil, Fungus gnats, Root aphids, Shoreflies, White grubs, Western flower thrips (pre-pupae and pupae in soil only)

GREENHOUSE, INTERIORESCAPE, AND FIELD GROWN ORNAMENTAL PLANTS, TREES, SHRUBS including but not limited to: **flowering plants, foliage plants, broadleaves, conifers.**

CROP GROUP 1: ROOT AND TUBER VEGETABLES: Including, but not limited to:

Artichoke, Black Salsify, Carrot, Cassava (bitter or sweet), Celeric (celery root), Chayote (root), Chicory, Chinese Artichoke, Edible Burdock, Garden Beet, Ginger, Ginseng, Horseradish, Jerusalem Artichoke, Oriental Radish, Parsnip, Potatoes, Radish, Rutabaga, Salsify, Skirret, Spanish Salsify, Sugar Beet, Sweet Potatoes, Taro, Turmeric, Turnip, Turnip-rooted Chervil, Turnip-rooted Parsley and Yams

CROP GROUP 2: LEAVES OF ROOT AND TUBER VEGETABLES: Including, but not limited to:

Beet and Turnip

CROP GROUP 3-07: BULB VEGETABLES: Including, but not limited to:

Leek, Garlic, Onion (Bulb and Green), Welch, and Shallot

CROP GROUP 4: LEAFY VEGETABLES (Except BRASSICA Vegetables): Including, but not limited to:

Arugula, Celery, Corn Salad, Cress, Dandelion, Dock, Edible Chrysanthemum, Endive, Fennel, Head Lettuce, Leaf Lettuce, Parsley, Purslane, Radicchio, Rhubarb, Spinach and Swiss Chard

CROP GROUP 5: BRASSICA (COLE) LEAFY VEGETABLES: Including, but not limited to (excludes watercress):

Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Broccoli, Chinese Cabbage (Bok Choy/Napa), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Cavolo Broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, and Rape Greens

CROP GROUP 6: LEGUME VEGETABLES (SUCCULENT OR DRIED) AND GRAIN CROPS: Including, but not limited to:

Adzuki Bean, Blackeyed Pea, Beans (all varieties), Chickpea, Cowpea, Crowder Pea, Edible-Pod Pea, English Pea, Fava Bean, Field Bean, Field Pea, Garbanzo Bean, Garden Pea, Green Pea, Kidney Bean, Lentils, Lima Bean, Lupins, Mung Bean, Navy Bean, Peas, Pigeon Pea, Pinto Bean, Runner Bean, Snap Bean, Snow Pea, Soybean, Sugar Snap Pea, Tepary Bean, Wax Bean, and Yardlong Bean

CROP GROUP 8-10: FRUITING VEGETABLES: Including, but not limited to:

Tomato, Tomatillo, Pepper (all varieties), Groundcherry, Pepino, Okra and Eggplant

CROP GROUP 9: CUCURBIT VEGETABLES: Including, but not limited to:

Chayote (fruit); Chinese wax gourd (Chinese preserving melon); Citron melon; Cucumber; Gherkin; Gourd, edible (includes Hyotan, Cucuzza, Hechima, Chinese okra); Melons; *Momordica spp.* (includes Balsam apple, Balsam pear, (bitter melon), Chinese cucumber); Muskmelon (includes Cantaloupe); Pumpkin; Squash (summer and winter) (includes Butternut squash, Calabaza, Hubbard squash, Acorn squash, Spaghetti squash); Watermelon

CROP GROUP 10-10: CITRUS FRUITS: Including, but not limited to:

Calamondin; Citrus citron; Citrus hybrids (includes Chironja, Tangelo, Tangor); Grapefruit; Kumquat; Lemon; Lime; Mandarin (Tangerine); Orange (sour and sweet); Pummelo; Satsuma mandarin

CROP GROUP 11-10: POME FRUITS: Including, but not limited to:

Apple, Crabapple, Loquat, Mayhaw, Oriental Pear, Pears and Quince

CROP GROUP 12-12: STONE FRUITS: Including, but not limited to:

Apricot, Cherry (sweet/tart), Nectarine, Peach, Plum, and Prune

CROP GROUP 13-07: BERRY AND SMALL FRUIT: Including, but not limited to:

Blueberry, Boysenberry, Currant, Gooseberry, Huckleberry, Dewberry, Elderberry, Juneberry, Lingonberry, Marionberry, Maypop, Olallieberry, Salal, Schisandra Berry, Strawberry, and Youngberry

CROP GROUP 14-12: TREE NUTS: Including, but not limited to:

Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory nut, Macadamia Nut, Pecan, Pistachios, and Walnut

CROP GROUP 19: HERBS AND SPICES : Including, but not limited to:

Allspice, Angelica, Anise, Balm, Basil, Borage, Burnet, Caperbuds, Caraway, Cardamom, Chamomile, Catnip, Celery seed, Chervil, Chive, Cinnamon, Clary, Coriander, Costmary, Cilantro, Cumin, Curry (leaf), Dill (Dillweed), Fennel, Fenugreek, Horehound, Hyssop, Lavender, Lemongrass, Lovage, Mace, Marjoram, Nasturtium, Parsley (Dried), Rosemary, Sage, Savory (Summer and Winter), Sesame, Sweet Bay leaf, Tansy, Tarragon, Tea, Thyme, Wintergreen, Woodruff, and Wormwood

CROP GROUP 22:

Asparagus

CROP GROUP 23: TROPICAL AND SUBTROPICAL FRUITS: Including, but not limited to:

Acerola, Atemoya, Avocado, Banana, Biriba, Black Sapote, Canistel, Cherimoya, Custard Apple, Feijoa, Fig, Guava, Ilama, Jaboticaba, Kiwi, Longan, Lychee, Mamey Sapote, Mango, Olive (all varieties), Papaya, Passionfruit, Pineapple, Plantains, Pomegranate, Pulasan, Rambutan, Sapodilla, Soursop, Spanish Lime, Star Apple, Starfruit, Sugar Apple, Ti Palm Leaves, Wax Jambu (Wax Apple), and White Sapote

MISCELLANEOUS CROPS:

Hemp

POULTRY LITTER AND LIVESTOCK BEDDING:

Litter beetles (such as Darkling, Hide and Carrion Beetles), and fly larvae

Apply to litter and livestock bedding. A second application may be necessary to establish initial *Beauveria bassiana* populations. For poultry broiler production houses, make applications before birds are present and reapply between each flock. Concentrate applications in bands under feed lines and pans, along each

wall, and other areas with high moisture. For poultry houses in which birds are grown in cages (layer or high rise “pit type” houses), in addition to litter application, apply alongside walls and into cracks and crevices around insulation. Repeat application after each grow-out, if needed. The product is only to be applied to poultry or livestock manure that is to be composted.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in the original container. The product can be stored for 16 months at room temperature (68 - 77°F; 20 - 25°C). Avoid overheating.

Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. (For instances where state and local ordinances do allow burning): If burned, stay out of smoke.

Manufactured for:

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Always read and follow label directions.

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