

ARBER Bio Insecticide

Insects Controlled or Suppressed On:

Fruits, Vegetables, Nuts, Ornamental Plants, Flowers,
Foliage, Trees, Shrubs, and Tropical Plants.

How Much To Use For:

Foliar Pests: Mix 0.5oz -1oz (2-4 capfuls) of Bio Insecticide per gallon of water. Spray leaves thoroughly.

Soil Pests: Mix 2.5oz (10 capfuls) Bio Insecticide per gallon of water. Drench Soil.

Hose End Sprayer: Set dial on sprayer to deliver a rate of 1oz (2 tbsp) per gallon of water.

Refer to booklet for complete directions for use

Active Ingredient:

Heat-killed Burkholderia spp. strain A396 and spent fermentation media 94.46%

Other Ingredients: 5.54%

Total: 100.0%

** Contains not less than 4µg FR 901228 per mL of Arber Bio Insecticide. FR901228 (CAS 128517-07-7) is an analytical marker in the active substance product.*

Distributed by:

Evergreen Way Inc.
5999 Custer Rd, Ste 110-148
Frisco, TX 75035

EPA Reg. No:

84059 - 14 - 97021

EPA Est. No:

Printed On Container



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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

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 to avoid run off to water bodies or drainage systems. See the Directions for Use section of this label for application instructions that minimize risk to bees and other beneficial insects.

DIRECTIONS FOR USE

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

HOME AND GARDEN USE DIRECTIONS

ARBER Bio Insecticide is a biological insecticide containing killed cells of *Burkholderia* spp. strain A396 and spent fermentation media, for use on food and ornamental plants against the pests listed in the Directions for Use section. ARBER Bio Insecticide controls insect targets by enzymatic degradation of exoskeletal structures and interference with the molting process leading to mortality through contact and/or ingestion. ARBER Bio Insecticide controls or suppresses many foliar feeding pests including caterpillars and foliage feeding coleopteran and many soft-bodied insects such as aphids, whiteflies and plant sucking mites infesting labeled plants. For insect control, the concentrate of ARBER Bio Insecticide must be mixed with water and applied as a foliar spray. To minimize

potential exposure to bees and other pollinating insects, do not apply while bees are foraging.

ARBER Bio Insecticide has been evaluated for toxicity to non-target insects in a variety of bioassays and on a variety of plants under various normal growing conditions. However, testing all beneficial insects, in all situations, mixtures and combinations, is not feasible. If you plan to release beneficial insects into your garden, consult with an extension specialist or with the product manufacturer prior to treating entire garden.

DIRECTIONS FOR CONTROL OF FOLIAR PESTS

WHEN TO USE

For best results, apply ARBER Bio Insecticide if pest species are present but before populations are causing visible damage.

BEFORE YOU USE

Read and follow these directions when using:

- Do not allow spray to drift from application site.
- Use only with pressurized hand-held sprayers, hose-end sprayers or spray trigger bottles.
- Do not allow spray mixture to stand overnight or for prolonged periods.
- ARBER Bio Insecticide can be applied in commonly used pressurized hand-held sprayers, spray trigger bottles and hose-end sprayers.

HOW TO USE FOR HAND-HELD SPRAYERS AND SPRAY TRIGGER BOTTLES

- Fill sprayer or bottle with appropriate amount of water and concentrate.
- Mix the spray solution thoroughly.
- Keep the spray solution agitated during application.

HOW TO USE FOR HOSE-END SPRAYERS

- Follow hose-end sprayer instructions to determine how to fill, set

dial, clean and disconnect from hose.

- Set dial on sprayer to deliver rate as directed below.

HOW MUCH TO USE FOR ALL FOLIAR APPLICATIONS

1-2 TBSP of ARBER Bio Insecticide per 1 gallon of water. Some pesticides can cause phytotoxic effects ranging from slight burning or browning of leaves to distorted leaves, fruit, flowers or stems. Damage symptoms may vary with the type of plant that has been treated. It is impossible to test all plant species for phytotoxicity. To assure that the plants to be treated are not sensitive to the treatment, apply a small amount of the product to a few leaves or the above ground portion of the plant and check back in 2-4 days for signs of phytotoxicity. Use product according to label directions.

INSECTS CONTROLLED OR SUPPRESSED ON VEGETABLES, FRUITS, NUTS, ORNAMENTAL PLANTS, TREES, SHRUBS, FLOWERS, FOLIAGE AND TROPICAL PLANTS

Alfalfa caterpillar*	Light brown apple moth*
Alfalfa webworm	Loopers
Adelgids	Mealybugs
Aphids	Mites
Armyworms	Plant bugs
Cabbage looper	Plum curculio
Chinch bugs*	Psyllids
Codling moth	Scales
Corn earworm	Sharpshooters*
Diamondback moth	Spittle bugs*
Fruit flies	Stink bugs
Hornworms	Tent caterpillars
Imported cabbageworm	Tufted apple budworm
Lace bugs	Webworms
Leaf rollers	Whiteflies
Leafhoppers	*Not labeled for this use in California

DIRECTIONS FOR SUPPRESSION OF SOIL-DWELLING PESTS (EXCLUDING TURF)

For suppression of soil-dwelling pests, including seed maggots, wireworms, symphylans, cutworms, white grubs and plant-parasitic nematodes, apply ARBER Bio Insecticide as a soil drench directly into the seed furrow. Mix ARBER Bio Insecticide at rate of 5 tablespoons per gallon of water and apply the mixture at the rate of 1 quart (32 fluid ounces) per 25 feet of row. For individual plants, such as tomatoes and peppers, apply the mixture as a soil drench at the rate of 4 fluid ounces per plant.

DIRECTIONS FOR SUPPRESSION OF PESTS OF TURF

Bluegrass billbug, annual bluegrass weevil, chinch bugs, armyworm, webworms, and cutworms

Mix ARBER Bio Insecticide at the rate of 0.75 – 1.5 fluid ounces (1.5 – 3.0 tablespoons) per gallon of water, and apply to turf with a pressurized sprayer at the rate of 1 gallon per 250 square feet of turf.

For control of bluegrass billbug, annual bluegrass weevil, chinch bugs, armyworm, webworms, and cutworms, it is not necessary to irrigate following application.

White grubs (including green June beetle, *Aphodius* spp., May or June beetles (*Phyllophaga* spp.), Japanese beetle (*Popillia japonica*), northern and southern masked chafers (*Cyclocephala* spp.), sugarcane grub (*Tomarus* spp.), and Oriental beetle (*Anomala orientalis*). For optimal grub control, apply ARBER Bio Insecticide soon after egg hatch when grubs are 1st or 2nd instar.

Apply 6–12 fluid ounces ARBER Bio Insecticide per 1000 square feet of turf in sufficient water to provide adequate coverage during application to lawn, turf or groundcover area. Apply ARBER Bio Insecticide in a minimum of 2 gallons of water per 1000 square feet of turf. For best control, thoroughly irrigate following application to wet the remaining thatch and top inch of soil. There should be no more than ½ inch of thatch present at the time of application. Under dry conditions where thatch is present, pre-watering is recommended prior to application for grub control. For best results, target smaller first and second instar grubs during late summer and early fall.

DIRECTIONS FOR SUPPRESSION OF PLANT-PARASITIC NEMATODES

Mix ARBER Bio Insecticide at the rate of 0.75 – 1.5 fluid ounces (1.5 – 3.0) tablespoons Arber Bio Insecticide per gallon of water, and apply at the rate of 1 gallon per 250 square feet of turf. For best control, thoroughly irrigate following application to moisten the top inch of soil. There should be no more than ½ inch of thatch present at the time of application. Under dry conditions where thatch is present, pre-watering is recommended prior to application.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place.

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 partially filled: Call your local solid waste agency or (800) 858-7378 (National Pesticide Information Center) for disposal instructions. Never place unused product down any indoor or outdoor drain.

KEEP OUT OF REACH OF CHILDREN

CAUTION

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.

HOTLINE NUMBER

For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time. In the event of a medical emergency, call your poison control center at 1-800-222-1222.

WARRANTY

To the extent permitted by applicable law, the seller makes no warranty, expressed or implied, of merchantability, fitness or otherwise concerning use of this product. The user assumes all risks of use, storage or handling that are not in accordance with the accompanying directions.

See attached booklet for complete direction for use and precautionary statements

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