



# MAJESTENE<sup>®</sup>

## BIONEMATICIDE

**Active Ingredient:**

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

**Other Ingredients:** ..... 5.54%

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

\*Contains not less than 1,500 Beet Armyworm Killing Units (BAWKU)/mg. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

EPA Reg. No. 84059-14

### 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.

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

 FOR ORGANIC PRODUCTION



Manufactured by:



1540 Drew Ave., Davis, CA 95618 USA  
1-877-664-4476  
info@marronebio.com

MBI-LBL-132 r2

LOT #: PRINTED ON CONTAINER

PN 104756

Job 208852

**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.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks
- protective eyewear
- a NIOSH-approved particulate respirator with any P or R filter with NIOSH approval number prefix TC-84A or a NIOSH-approved powered air purifying respirator with a HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow manufacturer's instructions for cleaning and 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, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], 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 breakdown.

**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: 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. See the Directions for Use section of this label for application instructions that minimize risk to bees and other beneficial insects, *including those used in Integrated Pest Management (IPM) programs or organic agriculture.*

**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. 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.

**DO NOT APPLY THIS PRODUCT BY AERIAL APPLICATION.**

- In New York State, application is prohibited within 100 feet of any surface water.

**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. 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
- Chemical resistant gloves (made from any waterproof material)
- Shoes plus socks

**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.

## PRODUCT INFORMATION

**MAJESTENE®** is a biological insecticide and nematicide containing killed cells of *Burkholderia* spp. strain A396 and spent fermentation media, for use against the pests listed in the Directions for Use section. **MAJESTENE®** controls soil borne/dwelling insect and nematode pests by enzymatic degradation of exoskeletal structures and interference with the molting process leading to mortality through contact and/or ingestion. **MAJESTENE®** controls or suppresses many pests infesting labeled crops and plants.

## USE INSTRUCTIONS

**MAJESTENE®** is an insecticide and nematicide for use against listed pests. Close scouting and early attention to infestations is highly recommended. Proper timing of application targeting newly hatched larvae, nymphs or immature pests is important for optimal results.

**MAJESTENE®** can be used in either the field or greenhouse for the control of any labeled pest. For greenhouse applications, dilute **MAJESTENE®** at the application rate per acre specified in use pattern instructions below into 50 gallons of water and spray plants to complete coverage, but not to runoff. For smaller volumes, 1 quart **MAJESTENE®** in 50 gallons of water approximates 4 teaspoons per gallon of water. Thorough coverage of infested plant parts is necessary for effective control. For some crops, directed drop nozzles by ground machine are required. Repeat applications on a 3 to 10 day interval depending upon plant growth rate, insect activity, and other factors. If attempting to control pest population with a single application, make the treatment when egg hatch is essentially complete but before economic damage occurs.

For Nematode Control: Nematode management considerations - To obtain maximum results in a nematode management program, it is important to take soil samples prior to application to assess nematode populations and determination of an appropriate management strategy. Take soil samples early enough to allow for the application of a pre-plant fumigant if warranted by nematode counts. Utilization of the services of a field person or crop consultant who is knowledgeable in nematode management is advised. For maximum crop protection, apply **MAJESTENE®** in-furrow following a shanked in pre-plant fumigant. Make subsequent foliar applications to root and tuber crops at crop emergence and on a 14-21 day interval until digging. For Columbia root knot nematodes, base the initial foliar application upon soil degree days with an initial post-emergence application made at 1440 degree days (41° F base). Use **MAJESTENE®** in rotation or combination with other registered foliar-applied nematicides. Foliar applications of **MAJESTENE®** must be watered in by rainfall or irrigation, or applied by overhead sprinkler irrigation to move the product into the soil profile. Use higher product rate when higher nematode pressure is expected. Use adjuvants with **MAJESTENE®** to improve control of insect pests in situations where achieving uniform plant coverage is difficult such as closed crop canopy, dense foliage and penetration into waxy leaf surfaces or when rainfall may remove spray deposits.

Bees and beneficial insects:

- To minimize potential exposure to bees and other pollinating insects, do not apply while bees are foraging.
- Do not allow product to drift to blooming crops or weeds if bees are foraging.
- Minimize spray drift away from the target area to reduce effects to other non-target insects.

**MAJESTENE®** has been evaluated for toxicity to non-target insects in a variety of bioassays and on a variety of crops under various normal growing conditions. However, testing all beneficial insects, in all situations, mixtures and combinations, is not feasible. Prior to treating entire crop where the release of beneficial insects serves as part of an Integrated Pest Management (IPM) program, consult with an extension specialist, a pest control advisor (PCA) or with the product manufacturer.

**MAJESTENE®** has been evaluated for phytotoxicity on a variety of crops under various normal growing conditions. However, testing all crop varieties, in all mixtures and combinations, is not feasible. Prior to treating entire crop, test a small portion of the crop for sensitivity.

**MIXING DIRECTIONS: Important** - Fill tank with  $1/2$  to  $3/4$  of the needed amount of water. Start the mechanical or hydraulic agitation to provide moderate circulation before adding **MAJESTENE®**. Add the **MAJESTENE®** to the tank mix and the remaining volume of water and continue circulation. Maintain circulation while loading and spraying. Do not mix more **MAJESTENE®** than can be used in 24 hours. Use a strainer no finer than 50 mesh in conventional spray systems.

**Tank mixing:** Do not combine **MAJESTENE®** in the spray tank with other pesticides, surfactants, adjuvants, or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective, or non-injurious under your use conditions. To ensure compatibility of tank-mix combinations they must be evaluated prior to use. To determine the physical compatibility of this product with other products use a jar test. Using a quart jar, add the proportionate amounts of the products to one quart of water with agitation. Add dry formulations first, then flowables second, then emulsifiable concentrates last. After thoroughly mixing, let this mixture stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

## SOIL TREATMENT USE DIRECTIONS

### 4-8 quarts MAJESTENE® per acre

At planting, apply MAJESTENE® at the rate of 4-8 quarts per acre into the open seed furrow in a 6-8 inch band behind the seed tube. During cultivation, apply MAJESTENE® at the rate of 4-8 quarts per acre as a directed or banded application incorporating the spray into the soil profile. For low to medium infestations of soil pests, use an at-planting in-furrow, or T-band application, in a minimum of 3 gallons of water per acre. When high pest infestations are anticipated or encountered, use other effective soil treatments for improved control. Additional in-season applications can be made during cultivation, by a banded spray followed by overhead irrigation or by using overhead chemigation.

MAJESTENE® can be applied by soil treatment to protect against labeled pests. In general, MAJESTENE® can be applied by the following methods, unless specified differently in the SELECTED CROPS section:

**Soil Drench Applications:** Apply MAJESTENE® in sufficient water to thoroughly soak the growing media and root zone. Nematode control treatments can occur prior to planting, and at or near planting or transplanting as soil drench applications. Multiple drench applications can be made on a 10-14 day interval for insect control treatments.

**Broadcast Applications:** MAJESTENE® can be applied to bare soil alone or with most types of pesticides and nutrients prior to planting, at planting, and at transplant. Apply with a minimum of 30 gallons of water and follow with a minimum of 0.5 inches of irrigation water or natural rainfall within 1-2 days to allow the material to move through the soil profile. Use of sufficient irrigation water to move the product into the root zone will vary depending upon initial soil moisture, organic matter and clay content of the soil. Use a jar test to confirm physical compatibility prior to application.

**Shanked-In and Injected Applications:** MAJESTENE® can be shanked-in or injected into the soil alone, or with most types of pesticides and nutrients prior to planting, and at planting. Use a jar test to confirm physical compatibility prior to application. **In-Furrow Applications:** At planting, apply MAJESTENE® as an in-furrow spray or as a 5-7 inch band (T-band) over an open furrow at the rate of 4-8 quarts per acre, according to the chart below. Apply MAJESTENE® in a minimum of 3 gallons of water per acre so as the spray is directed over the seed furrow just before the seeds are covered. MAJESTENE® applied as a T-band should be lightly incorporated into the top 1 inch of soil by drag chains or tines.

Rate	In-Furrow and T-band Application Rates Product per 1000 ft. row.							
	7.5" Rows	15" Rows	30" Rows	32" Rows	34" Rows	36" Rows	38" Rows	40" Rows
4-8 quarts MAJESTENE® per acre	1.83-3.7 fluid ounces	3.7-7.3 fluid ounces	7.3-14.7 fluid ounces	7.85-15.7 fluid ounces	8.35-16.7 fluid ounces	8.80-17.6 fluid ounces	9.30-18.6 fluid ounces	9.80-19.6 fluid ounces

7.5" = 69,697 row ft./acre, 15" = 34,848 row ft./acre, 30" = 17,424 row ft./acre, 32" = 16,315 row ft./acre, 34" = 15,374 row ft./acre, 36" = 14,520 row ft./acre, 38" = 13,754 row ft./acre, 40" = 13,068 row ft./acre.

## CHEMIGATION USE

### 4-8 quarts MAJESTENE per acre

For suppression/control of labeled pests apply MAJESTENE at the rate of 4-8 quarts per acre by broadcast application or chemigation prior to planting, at planting or shortly thereafter, at transplant or shortly thereafter and in season on a 14-28 day interval as needed to maintain control.

### Spray preparation

First, prepare a suspension of MAJESTENE® in a mix tank. Fill tank with 1/2 to 3/4 of the needed amount of water. Start mechanical or hydraulic agitation. Add the required amount of MAJESTENE®, and then the remaining volume of water. Then set the sprinkler to deliver a minimum of 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of MAJESTENE® into the irrigation water line so as to deliver the rate per acre targeted (which is within the labeled rate range). Inject the suspension of MAJESTENE® with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. Any questions on calibration should be directed to your State Extension Service specialists, to equipment manufacturers or other experts.

Do not combine MAJESTENE® with other pesticides, surfactants, or fertilizers for application through chemigation equipment unless prior experience has shown the combination physically compatible, effective and non-injurious under conditions of use.

### General Requirements -

- 1) Apply this product only through sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand moved, drip (trickle) irrigation systems.
- 2) Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

- 3) If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- 4) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place.
- 5) A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Specific Requirements for Chemigation Systems Connected to Public Water Systems -**

- 1) Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2) Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ), or the functional equivalent in the water supply line, upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank, of at least twice the inside diameter of the fill pipe.

**Specific Requirements for Drip (Trickle) Chemigation and Sprinkler Chemigation -**

- 1) The system must contain a functional check valve, vacuum relief valve, and low-pressure drain, appropriately located on the irrigation pipeline, to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve, to prevent the flow of fluid back toward the injection pump.

**Application Instructions for All Types of Chemigation -**

- 1) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues, may cause product to lose effectiveness or strength.
- 2) Determine the treatment rates as indicated in the directions for use and make proper dilutions.
- 3) Prepare a solution in the chemical tank by filling the tank with the required water and then adding product as required. Utilize agitation to keep solution in suspension.
- 4) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 5) The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 6) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 7) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 8) Do not apply when wind speed favors drift beyond the area intended for treatment.
- 9) Check to be sure that the system provides a uniform waterflow.
- 10) Irrigate crop with sufficient water to wet the root zone. Then, begin flow of the solution containing product solution from the chemical tank for a period to uniformly distribute the material. Discontinue flow of the **MAJESTENE**® mixture and let the system continue to run only as necessary to purge the line with fresh water. Let the **MAJESTENE**® solution remain in the root zone of the crop.

**New Tree / Orchard / Vine Plantings**

Apply the target rate within the labeled range by chemigation into the root zone through low-pressure micro sprinkler, drip, or trickle irrigation equipment. For optimal results soil should be pre-wetted prior to chemigation. Multiple applications may be necessary, use an application interval of 14 - 28 days. Inject **MAJESTENE**® in the final 30-60 minutes of an irrigation cycle, sufficient to wet the root zone, maintaining a minimum concentration of 0.05% v/v to optimize product performance.

For situations where individual trees are being replanted, saturate the root ball and the soil at the planting site to the depth/ volume of the anticipated root zone of the new planting with a 1-2% v/v solution of **MAJESTENE**®. Subsequent applications should follow within 14 - 28 days.)

**SHAKE WELL BEFORE USE**

**FOR USE ON THE FOLLOWING CROPS FOR CONTROL OR SUPPRESSION OF THE FOLLOWING NEMATODES:**

- awl (*Dolichodorus* spp.) nematodes
- dagger (*Xiphinema* spp.) nematodes
- pin (*Paratylenchus* spp.) nematodes
- root-knot (*Meloidogyne* spp.) nematodes
- (Columbia) lance (*Hoplolaimus galeatus*, *Hoplolaimus columbus*) nematodes
- lesion (*Pratylenchus* spp.) nematodes
- stem (*Ditylenchus dipsaci*) nematodes
- sting (*Belonolaimus* spp.) nematodes
- stunt (*Tylenchorhynchus* spp.) nematodes
- ring (*Bursaphelenchus* spp.) nematodes
- stubby-root (*Paratrichodorus* spp.) nematodes
- soybean cyst\* (*Heterodera glycines*) nematodes
- reniform (*Rotylenchulus* spp.) nematodes

**Soil Dwelling Insects: Early season protection against soil dwelling insects, including the following:**

- cutworms
- root and seed maggots
- root mealybugs
- Mexican, southern, western, and northern corn rootworm larvae
- seed corn beetle larvae
- thrips
- white grubs including chafers, Japanese beetle larvae and Green June beetle larvae
- wireworms

**Pre-harvest Interval (PHI) = 0 days**

**BERRIES**

**Bushberries: Blueberry, High Bush Blueberry, Currant, Gooseberry, Huckleberry, Elderberry, Juneberry, Lingonberry, Salal Caneberries: Blackberry, Loganberry, Red and Black Raspberry, and Cultivars and/or hybrids of these**

**Cranberry**

**Kiwi, Mulberry (*Morus* spp.),**

For application to bushes during transplant and replant - apply MAJESTENE in a concentration of 4-8 quarts per 100 gallons of water (1-2% v/v) into the excavated hole thoroughly saturating the surrounding soil medium prior to transplanting. Additional applications can be made through drip irrigation or micro-emitters during the growing season on a 14-28 day interval as needed to maintain control.

For application to established plantings, apply MAJESTENE as a 2-4 foot band application over the row in at least 50 gallons of water per acre prior to imminent rainfall or followed by overhead irrigation of 0.25 – 0.5 inches of water to move the product into the top 2-3 inches of soil. Make the initial application when the soil temperature is at least 45°F at an 8 inch depth. Additional applications can be made on a 14 – 28 day interval prior to imminent rainfall or followed by sprinkler irrigation.

Inject MAJESTENE mid-way into the irrigation event to allow for incorporation of the product into the soil profile. Additional applications can be made at 14-day or greater intervals.

**Brassica (Cole) Leafy Vegetables\***

**Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Broccoli, Chinese Cabbage (Bok Choy), Chinese Cabbage (Napa), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Cavalo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens**

**Bulb Vegetables**

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

**4-8 quarts MAJESTENE® per acre by Broadcast Soil or Chemigation methods**

For suppression/control of labeled pests, apply MAJESTENE at the rate of 4-8 quarts per acre by broadcast application or chemigation prior to planting, at planting or shortly thereafter, at transplant or shortly thereafter, and in-season on a 14-28 day interval as needed to maintain control. If irrigation is not available, apply MAJESTENE® by broadcast application in a minimum of 30 gallons of water per acre followed by natural rainfall.

Insufficient rainfall and delay in incorporation of residues can result in poor product performance. Use of sufficient irrigation water to move the product into the root zone will vary depending upon initial soil moisture, organic matter and clay content of the soil.

\* = Not for labeled for this use in CA

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**Cereal Grains**

Barley, Buckwheat, Grain Amaranth, Milo, Oats, Pearl Millet, Proso Millet, Rye, Sorghum, Triticale, Wheat

Corn (Field Corn, Sweet Corn, Popcorn and Corn Grown for Seed)

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**Cotton**

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**Cucurbit Vegetables**

Cucumber, Edible Gourds, Muskmelon (Cantaloupe, muskmelon, etc.), Pumpkin, Watermelon, Winter and summer Squash, Zucchini

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**Fruiting Vegetables**

Eggplant, Groundcherry, Okra, Pepino, Pepper, Tomato, Tomatillo

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**GRAPE**

For application to established plantings, apply MAJESTENE as a 2-4 foot band application over the row in at least 50 gallons of water per acre prior to imminent rainfall or followed by overhead irrigation of 0.25 – 0.5 inches of water to move the product into the top 2-3 inches of soil. Make the initial application when the soil temperature is at least 45°F at an 8 inch depth. Additional applications can be made on a 14 – 28 day interval prior to imminent rainfall or followed by sprinkler irrigation.

Inject MAJESTENE mid-way into the irrigation event to allow for incorporation of the product into the soil profile. Additional applications can be made at 14-day or greater intervals

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**HERBS AND SPICES AND MINTS**

(Outdoor or enclosed, including those grown as bedding plants)

Angelica, balm, basil, borage, burnet, chamomile, catnip, chervil, chive, clary, coriander, costmary, cilantro, curry, dillweed, horehound, hyssop, lavender, lemongrass, lovage, marjoram, nasturtium, parsley (dried), peppermint, rosemary, sage, savory (summer and winter), sweet bay, tansy, tarragon, thyme, wintergreen, woodruff and wormwood

Pre-plant:

Surface spray MAJESTENE in 40-100 gallons of water per acre followed immediately by light tillage into the top 2 inches of soil or surface spray MAJESTENE in 20-40 gallons of water per acre immediately followed with sufficient overhead irrigation to wet the soil into the root zone. The amount of irrigation water should be sufficient to move the product into the root zone and will vary according to soil type.

Post-emergence:

Apply MAJESTENE through chemigation (overhead) by injecting MAJESTENE into the irrigation event to allow for incorporation of the product into the soil profile at a depth sufficient to protect the root zone. Make the first application in the spring as soil temperatures warm and plants comes out of dormancy. Additional in-season applications can be made to moist soils following the first cutting.

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**Leafy Vegetables (except brassica vegetables)**

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

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**Peanuts\***

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**Potatoes**

4-8 quarts of MAJESTENE per acre by Broadcast Soil or Chemigation methods

By chemigation systems: Apply MAJESTENE at the rate of 4-8 quarts per acres by chemigation irrigation systems prior to planting, at planting, or shortly thereafter, at transplant or shortly thereafter and in season on a 14-28 day interval as needed to maintain control.

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**Soybean\***

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**Root and Tuber Vegetables**

Artichoke, Black Salsify, Carrot, Cassava, Celeriac, Chayote Root, Chicory, Chinese Artichoke, Edible Burdock, Garden Beet, Ginger, Ginseng, Horseradish, Jerusalem Artichoke, Oriental Radish, Parsnip, Radish, Rutabaga, Salsify, Skirret, Spanish Salsify, Sugar Beet, Sweet Potatoes, Turmeric, Turnip, Turniprooted Chervil, Turnip-rooted Parsley and Yams

4-8 quarts MAJESTENE® per acre

By chemigation systems: Apply MAJESTENE at the rate of 4-8 quarts per acres by chemigation irrigation systems prior to planting, at planting, or shortly thereafter, at transplant or shortly thereafter and in season on a 14-28 day interval as needed to maintain control.

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**Strawberry**

4-8 quarts MAJESTENE® per acre

For application to established plantings, apply MAJESTENE as a 2-4 foot band application over the row in at least 50 gallons of water to move the product into the top 2-3 inches of soil. Make the initial application when the soil temperature is at least 45°F at an 8 inch depth. Additional applications can be made on a 14-28 day interval prior to imminent rainfall or followed by sprinkler irrigation.

\* = Not for labeled for this use in CA

For application during transplant and replant - apply MAJESTENE in a concentration of 4-8 quarts per 100 gallons of water (1-2% v/v) into the excavated hole thoroughly saturating the surrounding soil medium prior to transplanting. Additional applications can be made through drip irrigation during the growing season on a 14-28 day interval as needed to maintain control.

Inject MAJESTENE mid-way into the irrigation event to allow for incorporation of the product into the soil profile. Additional applications can be made at 14-day intervals.

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**Tropical and Subtropical Fruits, inedible peel:**

**Banana, Mangos, Pineapple, Plantains**

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**STONE FRUITS**

**Apricots, Cherry, Nectarine, Peach, Plum, Prune**

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**TREE NUTS**

**Almond, Cashew, Chestnut, Filbert (Hazelnut), Macadamia, Pecan, Pistachio, Walnut**

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**Tropical and Subtropical Fruits, inedible peel:**

**Papaya**

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**Tobacco**

**4-8 quarts MAJESTENE® per acre**

Apply at the rate of 4-8 quarts per acre in transplant water, and in-season in layby and cultivations sprays.

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## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place. Do not freeze.

**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:**

**For plastic containers less than or equal to 5 gallons:**

**Nonrefillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**For plastic containers greater than 5 gallons:**

**Nonrefillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

Marrone Bio Innovations is a member of the Ag Container Recycling Council.

Visit <http://www.acrecycle.org/contact> for information on how to arrange pick-up of this empty pesticide container.

### Marrone Bio Innovations 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. To the extent consistent with applicable law, the user assumes all risks of use, storage or handling that are not in accordance with the accompanying directions.

MAJESTENE® is a registered trademark of Marrone Bio Innovations, Inc.

Marrone Bio Innovations name and logo are trademarks of Marrone Bio Innovations, Inc.

**© Marrone Bio Innovations**

1540 Drew Ave., Davis, CA 95618 USA

1-877-664-4476

info@marronebio.com

\* = Not for labeled for this use in CA





# MAJESTENE<sup>®</sup>

## BIONEMATICIDE

PULL HERE TO OPEN ▲

**Active Ingredient:**

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

**Other Ingredients:** ..... 5.54%

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

\*Contains not less than 1,500 Beet Armyworm Killing Units (BAWKU)/mg. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

EPA Reg. No. 84059-14

### 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.

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

 FOR ORGANIC PRODUCTION



Manufactured by:



1540 Drew Ave., Davis, CA 95618 USA  
1-877-664-4476  
info@marronebio.com

MBI-LBL-132 r2

LOT #: PRINTED ON CONTAINER

PN 104756

- EPA Est. No. 84059-MI-001
- EPA Est. No. 90491-CAN-001
- EPA Est. No. 91121-DEU-001

- NET CONTENTS:**
- 1 gallon
  - 2.5 gallons
  - 265 gallons
  - \_\_\_\_\_

PF 208852