U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesicide Programs Biopesticides and Pollution Prevention Division (7511P) 1200 Pennsylvania Avenue W Washington, D.C. 20460 NOTICE OF PESTICIDE: <u>A</u> Registration Reregistration Reregistration Reregistration Reregistration Reregistration Reregistration (under FIFRA, as amended) Name and Address of Registrat (include ZIP Code): Marrone Bio Innovations 2121 Second Street, Suite B-107 Davis, CA 95618 Note: Changes in labeling, differing in substance from that accepted in connection with this registration, must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EAR Registration Number. On the basis of information furnished by the registrat, the above named pesticide is hereby registered/treregistered under the registration of a pesticide in accordance with the Act. The acceptance and any at any time suped or cancel the registration of a pesticide in accordance with the Act. The acceptance and any at any time suped or cancel the registration do are sort to accordance with the Act. The acceptance of any annee in connection with the registration, and accordance with the Act. The acceptance of any annee in connection with the registration of a product under this Act is not to be construct as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. This registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA. This product is unconditionally registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms: 1. On the accepted labeling, revise the EPA Registration Number as follows: "EPA Reg. No. 84059- 16." 2. Submit two	UNITED STATES	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Biopesticides and Pollution Prevention Division (7511F	EPA Registration) Number:	Date of Issuance:	
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Reregistration (under FIFRA, as amended) MBI-203 SC Bioinsecticide Name and Address of Registrant (include ZIP Code): Marrone Bio Innovations 2121 Second Street, Suite B-107 Davis, CA 95618 Note: Changes in labeling, differing in substance from that accepted in connection with this registration, must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number. On the basis of information furnished by the registrant, the above named pesticide is hereby registred/reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act). Registration is in no way to be construed as an endorsement or recommendation of this product by the Environmental Protection Agency (EPA or the Agency). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the FAC. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. This registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA. This product is unconditionally registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms: I. On the accepted labeling, revise the EPA Registration Number as follows: "EPA Reg. No. 84059- 16."			Name of Pestic	ide Product:	
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Marrone Bio Innovations EPA Reg. No. 84059-16

3. Submit the following data on MBI-203 SC Bioinsecticide by the due dates specified below. These data must be determined by EPA to be acceptable.

Study Type	Required Data/Information	Due Date
Storage Stability (Guideline Number 830.6317)	Provide the results of a two-year storage stability study.	May 1, 2013
Corrosion Characteristics (Guideline Number 830.6320)	Provide the results of a two-year corrosion characteristics study.	May 1, 2013

- 4. By June 15, 2012, submit a revised confidential statement of formula, updating the following information:
 - a. In box #3, replace "MBI-203 SC" with "MBI-203 SC Bioinsecticide."
 - b. In box #4, replace "84059" with "84059-16."
 - c. In box #12 (for the active ingredient), replace "84059-O" with "84059-9."
 - d. In box #13b (for the active ingredient), include the minimum potency measure already presented on the associated accepted labeling.

A stamped copy of the label is enclosed for your records.

Sincerely,

Keith A. Matthews, Director Biopesticides and Pollution Prevention Division (7511P)

Enclosures (2):

- MBI-203 SC Bioinsecticide "Accepted" Label

- A-79 Enclosure

MBI-203 SC BIOINSECTICIDE

(For Organic Production) (For Use in Organic Production) [OMRI Listed® (logo)]

Active Ingredient: Chromobacterium subtsugae strain PRAA4-1 ^T and	
spent fermentation media	86.50%
Other ingredients:	13.50%
Total:	

*Contains not less than 1000 Cabbage Looper Killing Units (CLKU)/mg. <u>Note</u>: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID
lf 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 mouth-to-mouth if possible.
	Call a poison control center or doctor for further 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 the poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
lf on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.
	HOT LINE NUMBER
Have the produ	uct container or label with you when calling a poison control center or doctor, or going for

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.

EPA Reg. No.: (pending as File Symbol 84059-RA) Net Contents: XX (Batch)(Lot) No: XXXX EPA Est. No.: XXXXX-XX-XXX

Manufactured by:

Marrone Bio Innovations, Inc. 2121 Second St., Suite B-107 Davis, CA 95618 USA 1-877-664-4476; <u>www.marronebioinnovations.com</u>; info@marronebio.com



US Patents No. XXXXX

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under ERA Reg. No. 54659 = 16

XXXX[®] is a trademark of Marrone Bio Innovations, Inc. Marrone Bio Innovations name and logo are registered trademarks of Marrone Bio Innovations, mc. 84059 - 16

> MBI-203 SC BIOINSECTICIDE; EPA Reg. No. (pending as File Symbol 84059-RA) MASTER LABEL – Version (4) dated May 1, 2012 Page 1 of 16

PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals - CAUTION: Causes moderate eye irritation. Harmful if inhaled, swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing 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
- shoes plus socks

Mixer/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. 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, 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: This product is toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product if bees are visiting the treatment area. This product is toxic to certain non-target terrestrial arthropods. Minimize spray drift away from target area to reduce effects to nontarget insects. This product is toxic to aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. 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.

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:

- Coveralls
- Waterproof gloves
- Shoes plus socks

PRODUCT INFORMATION

MBI-203 SC BIOINSECTICIDE is a biological insecticide/miticide containing fermentation solids of *Chromobacterium subtsugae* strain PRAA4-1^T for use on ornamental plants, turf and edible crops against the pests listed in the Directions for Use section. MBI-203 SC BIOINSECTICIDE functions primarily as a stomach poison for use in the control or suppression of many foliar-feeding pests, including caterpillars, foliage-feeding coleopteran, aphids, whiteflies and plant-sucking mites infesting labeled crops. MBI-203 SC BIOINSECTICIDE must be mixed with water and applied as a foliar spray with ground or aerial equipment equipped for conventional insecticide spraying or by chemigation.

MBI-203 SC BIOINSECTICIDE can be used in either the field or greenhouse for the control of any labeled pest.

USE INSTRUCTIONS

MBI-203 SC BIOINSECTICIDE is a highly selective insecticide/miticide for use against listed insects and mites. Close scouting and early attention to infestations is highly recommended. Proper timing of application targeting newly hatched larvae is important for optimal results.

Thorough coverage of infested plant parts is necessary for effective control. MBI-203 SC BIOINSECTICIDE does not have systemic activity. For some crops, directed drop nozzles by ground machine are required.

Under heavy pest populations, use the higher label rates, shorten the spray interval, and/or increase the spray volume to improve coverage.

Repeat applications at an interval sufficient to maintain control, usually 3-10 days depending upon plant growth rate, insect and mite activity, and other factors. If attempting to control an

insect population with a single application, make the treatment when egg hatch is essentially complete but before economic damage occurs.

To enhance control, consider tank mixing with contact insecticides/miticides.

For hard-to-wet crops, consider using a spreader/sticker or adjuvant, which has been approved for targeted crop use, to enhance adhesion of MBI-203 SC BIOINSECTICIDE to the crop.

MBI-203 SC BIOINSECTICIDE 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.

GROUND AND AERIAL APPLICATIONS

Apply MBI-203 SC BIOINSECTICIDE in ground and aerial equipment with quantities of water sufficient to provide thorough coverage of infested plant parts. The amount of water needed per acre will depend upon crop development, weather, application equipment, and local experience.

Do not spray when wind speed favors drift beyond the area intended for use.

Avoiding spray drift is the responsibility of the applicator.

Mixing directions

Important – Do not add MBI-203 SC BIOINSECTICIDE to the mix tank before introducing the desired amount of water. Add water to the mix tank. Start the mechanical or hydraulic agitation to provide moderate circulation before adding MBI-203 SC BIOINSECTICIDE. Add the desired volume of MBI-203 SC BIOINSECTICIDE to the mix tank and continue circulation. Maintain circulation while loading and spraying. Do not mix more MBI-203 SC BIOINSECTICIDE than can be used in 24 hours. Use a strainer no finer than 50 mesh in conventional spray systems.

Spray volume

For conventional air and ground applications, use at least 10 gallons of total volume per acre in water-based sprays.

Tank mixing

Do not combine MBI-203 SC BIOINSECTICIDE 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. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

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, 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.

CHEMIGATION USE DIRECTIONS

Apply this product only through sprinkler irrigation systems, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide applications to a public water system.

Spray preparation

First, prepare a suspension of MBI-203 SC BIOINSECTICIDE in a mix tank. Fill tank ½ to ¾ of the amount of water for the area to be treated. Start mechanical or hydraulic agitation. Add the required amount of MBI-203 SC BIOINSECTICIDE, 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 MBI-203 SC BIOINSECTICIDE into the irrigation water line so as to deliver the desired rate of MBI-203 SC BIOINSECTICIDE per acre. Inject the suspension of MBI-203 SC BIOINSECTICIDE with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. MBI-203 SC BIOINSECTICIDE is to be metered continuously for the duration of the water application. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not combine MBI-203 SC Bioinsecticide with other pesticides, surfactants, adjuvants, or fertilizers for application through chemigation equipment unless prior experience has shown the combination to be physically compatible, effective and non-injurious under conditions of use.

MBI-203 SC Bioinsecticide has not been fully evaluated for compatibility with all pesticides, surfactants, adjuvants, or fertilizers. 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, and 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.

Instructions for applications through sprinkler irrigation systems

Maintain continuous agitation in the mix tank during mixing and application to ensure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume for a more dilute solution per unit time. Crop injury or lack of effectiveness can result from non-uniform distribution of treated water. 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. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation waters.

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.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump stops.

The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

AERIAL DRIFT REDUCTION INFORMATION

GENERAL: Avoiding spray drift at the application site is the responsibility of the applicator (specifically, see **SENSITIVE AREAS** section for the requirement regarding spray drift and honey bees). The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. Where states have more stringent regulations, they should be observed.

BUFFER ZONE FOR AERIAL APPLICATION: Do not apply within 60 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

INFORMATION ON DROPLET SIZE: Use only medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size. The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that will provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

CONTROLLING DROPLET SIZE: <u>Volume</u> - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. <u>Pressure</u> - Do not exceed the nozzle manufacturer's specified pressures. For many nozzle types, lower pressure produces larger droplets. When high flow rates are needed, use higher flow rate nozzles instead of increasing pressure. <u>Number of Nozzles</u> - Use the minimum number of nozzles that provide uniform coverage. <u>Nozzle Orientation</u> - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential. <u>Nozzle Type</u> - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM WIDTH: For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade.

APPLICATION HEIGHT: Do not make application at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure to droplets to evaporation and wind. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.

SWATH ADJUSTMENT: When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

WIND: Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph. Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS: Do not apply during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas). Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, blooming crops or weeds that bees are visiting, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

SHAKE WELL BEFORE USE

FOR USE ON THE FOLLOWING CROPS FOR CONTROL OF SPECIFIED INSECTS AND MITES:

Pre-harvest Interval (PHI) = 0 days

Alfalfa (Hay and Seed), Hay and Other Forage Crops

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Alfalfa webworm, alfalfa caterpillar, armyworms, European skipper

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Plant bugs, aphids

Asparagus

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Asparagus beetle and spotted asparagus beetle. Apply when adults are seen feeding on new spears and during the fern stage when field counts or crop injury indicates damaging populations.

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Stink bugs

Bananas

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Banana skipper

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Stink bugs

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 Broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, and Rape Greens

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Diamondback moth, cabbage looper, imported cabbageworm, cabbage webworm, beet armyworm, armyworms

Yellowmargined leafbeetle larvae – apply to newly hatched to 2nd instar. If adult beetles are also present, tank-mix with a knockdown insecticide.

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Whiteflies, thrips, aphids, stink bugs

Bulb Vegetables

Leek, Garlic and Onion (Bulb and Green)

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Loopers, omnivorous leafroller, hornworm, imported cabbageworm, diamondback moth, green cloverworm, webworms, saltmarsh caterpillar, armyworms, cutworms, cross-striped cabbageworm, *Heliothis*

Bushberries

Blueberry, Currant, Gooseberry, Huckleberry, Elderberry, Juneberry, Ligonberry, and Salal

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms, cherry fruitworm, cranberry fruitworm, fireworms, leafrollers, loopers

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Stink bugs

Caneberries

Blackberry, Loganberry, Red and Black Raspberry, and Cultivars, Varieties and/or Hybrids of These

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Beet armyworm, bertha armyworm, green fruitworm, leafrollers, loopers, western raspberry fruitworm, armyworms

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Stink bugs

Cereal Grains

Barley, Buckwheat, Oats, Pearl Millet, Proso Millet, Rye, Sorghum (Milo), Triticale and Wheat

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms, corn earworm (headworm), southwestern corn borer, web worms

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Cereal leaf beetle, chinch bugs

Citrus Fruit

Grapefruit, Lemons, Limes, Oranges, and Tangerines

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Fruittree leafroller, orangedog, citrus cutworm, citrus leafminer

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Two-spotted spider mite, Texas citrus mite, citrus red mite, citrus rust mite, six-spotted spider mite, Asian citrus psyllid, citrus whitefly, cloudy-winged whitefly, wooly aphid, citrus blackfly, green citrus aphid, cotton or melon aphid, brown citrus aphid, mealybugs, stink bugs

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

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms, European corn borer, southwestern corn borer, western bean cutworm, corn earworm, corn rootworm adults

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Corn leaf aphid, stink bugs

Cotton

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

European corn borer, cotton bollworm, tobacco budworm, loopers (soybean and cabbage), saltmarsh caterpillar, armyworms

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Cotton aphid, Lygus

Cranberry

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Do not apply to flooded fields.

Armyworms, leafrollers, fireworms, loopers, sparganothis fruitworm, cranberry blossom weevil.

Cucurbit Vegetables

Cucumber, Edible Gourds, Muskmelon, Cantaloupe, Pumpkin, Watermelon, and Winter and Summer Squash

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Armyworms, cabbage looper, melonworm, pickleworm, rindworm complex

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Silverleaf whitefly nymphs, aphids, stink bugs

Fig

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Navel orangeworm

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Stink bugs

Flowers, Bedding Plants and Ornamentals - ground application only to non-blooming plants

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre or 1 – 2 gallons of MBI-203 SC BIOINSECTICIDE per 100 gallons of water

Loopers, tobacco budworm, omnivorous looper, omnivorous leafroller, diamondback moth, Armyworm, ello moth, lo moth, oleander moth, azalea caterpillar

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre or 1-1.5 gallons of MBI 203 SC BIOINSECTICIDE per 50 gallons of water [For 5-gallon container size:] 8-12 quarts of MBI 203 SC BIOINSECTICIDE per acre or 2-3 gallons of MBI 203 SC BIOINSECTICIDE per 100 gallons of water Whiteflies, aphids, mites

Fruiting Vegetables

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

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Loopers, hornworms, tomato fruitworm, variegated cutworm, saltmarsh caterpillar, armyworms, tomato pinworm, European corn borer

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Colorado potato beetle larvae – apply to newly hatched to 2nd instar larvae. If adult beetles are also present, tank-mix with a knockdown insecticide.

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Aphids, mites, stink bugs, *Lygus*, pepper weevil, silverleaf whitefly, plant bugs, stink bugs

Grape

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Grape leaf skeletonizer, grape leafroller, omnivorous leafroller, orange tortrix, oblique-banded leafroller, grape berry moth

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Pacific spider mite, Willamette spider mite, two-spotted spider mite, mites, grape mealybug, stink bugs

Herbs and Spices

Angelica, Balm, Basil, Borage, Burnet, Camomile, Catnip, Chervil, Chive, Clary, Coriander, Costmary, Cilantro, Curry, Dillweed, Horehound, Hyssop, Lavender, Lemongrass, Lovage, Marjoram, Nasturtium, Parsley (Dried), Rosemary, Sage, Savory (Summer and Winter), Sweet Bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff and Wormwood

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Loopers, saltmarsh caterpillar, armyworms

Hops and Dried Cones

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Armyworms, loopers

Leafy Vegetables

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

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Cabbage looper, diamondback moth, armyworms, loopers

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Aphids, whiteflies, psyllids, stink bugs

Leaves of Root and Tuber Vegetables

Beets and Turnips

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Cabbage looper, diamondback moth, armyworms

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Aphids, whiteflies, psyllids, stink bugs

Legume Vegetables (Succulent or Dried)

Adzuki Bean, Blackeyed Pea, Beans, Chickpea, Cowpea, Crowder Pea, Edible-Pod Pea, English Pea, Fava Bean, Field Bean, Field Pea, Garbonzo 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

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms, corn earworm, green cloverworm, loopers, podworms, soybean looper, velvetbean caterpillar

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Aphids, stink bugs, mites

Oilseed Crops

Canola, Safflower, Sunflower (including Sunflower Grown for Seed)

4 - 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms, diamondback moth, loopers, saltmarsh caterpillar, Heliothis, headworms

Peanut

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms, cabbage looper, corn earworm, soybean looper, green cloverworm, European corn borer, podworms, red-necked peanut worm, saltmarsh caterpillar, velvetbean caterpillar

Peppermint

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Loopers, saltmarsh caterpillar, armyworms

Pineapple

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Gummosos-Batracheda Comosae (Hodges), Thecla-Thecla Basilides (Geyr)(Fruitborer)

Pome Fruit

Apples, Crabapple, Loquat, Mayhaw, Pears and Quince

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Leafrollers, oriental fruit moth, plum curculio, tufted apple budmoth

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Aphids, stink bugs, mites

Application timing: optimal timing for leafrollers can vary between species and geographic locations. Monitor moth flights with pheromone traps and scout regularly to determine larval populations. Use a 7-10 day re-treatment schedule to maintain control if the crop is growing rapidly or if there is heavy pest pressure.

Pomegranate

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms, cankerworms, codling moth, cutworms, filbert leafroller, fruittree leafroller, gypsy moth, oblique-banded leafroller, oriental fruit moth, redbanded leafroller, tufted apple budmoth, twig borer, variegated leafroller, walnut caterpillar

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ¹/₂ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre European red mite, McDaniel spider mite, Pacific spider mite, two-spotted red mite, stink bugs

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, Potatoes, Radish, Rutabaga, Salsify, Skirret, Spanish Salsify, Sugar Beet, Sweet Potatoes, Tumeric, Turnip, Turnip-rooted Chervil, Turnip-Rooted Parsley and Yams

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms, artichoke plume moth, European corn borer, loopers

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre

Colorado potato beetle larvae – apply to newly hatched to 2nd instar larvae. If adult beetles are also present, tank-mix with a knockdown insecticide. Heavy infestations require repeat application. Aphids, potato aphid, potato leafhopper, stink bugs

Shade and Ornamental Trees

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre or 1 – 2 gallons of MBI-203 SC BIOINSECTICIDE per 100 gallons of water

Blackheaded budworm, California oakworm, Douglas fir tussock moth, elm leaf beetle, elm spanworm, fruittree leafroller, greenstriped mapleworm, hemlock looper, imported willow leaf beetle, Jack Pine

Budworm, Mimosa Webworm, pine butterfly, saddleback caterpillar, saddle prominent caterpillar, spruce budworm, tent caterpillar, viburnum beetle, western tussock moth

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre or 1-1.5 gallons of MBI 203 SC BIOINSECTICIDE per 50 gallons of water

[For 5-gallon container size:] 8-12 quarts of MBI 203 SC BIOINSECTICIDE per acre or 2-3 gallons of MBI 203 SC BIOINSECTICIDE per 100 gallons of water

Aphids, elm leaf beetle, imported willow leaf beetle, lace bugs, mites, whiteflies, viburnum leaf beetle

Stone Fruits

Apricots, Cherry, Nectarine, Peach, Plum, and Prune

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Green fruitworm, leafrollers (including oblique-banded, fruit tree, pandemic, redbanded, and variegated), oriental fruit moth, redhumped caterpillar, tent caterpillar, peach twig borer

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre

Aphids, mites, stink bugs

Application timing: optimal timing for peach twig borer and leafrollers can vary between species and geographic locations. Monitor moth flights with pheromone traps and scout regularly to determine larval populations. Use a 7-10 day re-treatment schedule to maintain control if the crop is growing rapidly or if there is heavy pest pressure. Use a 3- to 4-day re-treatment schedule at flowering.

Strawberry

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Armyworms, leafrollers

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Aphids, *Lygus*, mites, thrips, stink bugs

Tobacco

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Hornworms, tobacco budworm, loopers

Tree Farms and Plantations

Conifers, Including Christmas Trees and Deciduous Trees

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre or 1 – 2 gallons of MBI-203 SC BIOINSECTICIDE per 100 gallons of water

Bagworm, fall webworm, gypsy moth, hemlock looper, jackpine budworm, pine tip moth, redhumped caterpillar, spruce budworm, tent caterpillar, tussock moths

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre or 1-1.5 gallons of MBI 203 SC BIOINSECTICIDE per 50 gallons of water [For 5-gallon container size:] 8-12 quarts of MBI 203 SC BIOINSECTICIDE per acre or 2-3 gallons of

MBI 203 SC BIOINSECTICIDE per 100 gallons of water

Cottonwood leaf beetle - apply to newly hatched to 2nd instar larvae. If adult beetles are also present, tank-mix with a knockdown insecticide. Heavy infestations may require repeat application.

Tree Nuts and Pistachios

Almonds, Cashew, Chestnut, Filbert (Hazelnut), Macadamia Nut, Pecan, Pistachios, and Walnut

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Fall webworm, filbert worm, hickory shuckworm, navel orange worm, oblique-banded leafroller, peach twig borer, pecan nut casebearer, redhumped caterpillar

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Pecan weevil (suppression)

Tropical and Subtropical Fruit

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

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre

Avocado leafroller, citrus peelminer, cutworms, fruit tree leafroller, omnivorous leafroller, orange tortrix, western tussock moth

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Stink bugs

Turf, Including Turf Grown for Seed

4 – 8 quarts of MBI-203 SC BIOINSECTICIDE per acre Armyworms, cutworms, sod webworm

[For 2.5-gallon container size:] 4-6 quarts of MBI-203 SC BIOINSECTICIDE per ½ acre [For 5-gallon container size:] 8 – 12 quarts of MBI-203 SC BIOINSECTICIDE per acre Chinch bug

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container at 35.6-46.4°F (2-8°C). Avoid freezing.

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. 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 ¼ 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. 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.

Marrone Bio Innovations WARRANTY

To the extent consistent with 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.

OPTIONAL LABEL CLAIMS:

- Biological Insecticide
- Flowable concentrate
- [OMRI Listed® (logo)]