WIND STATES	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Biopesticides and Pollution Prevention Division (7511P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460	EPA Reg. Number: 84059-26	Date of Issuance:
NOTICE OF PESTICIDE: <u>X</u> Registration Reregistration	Term of Issuance: Unconditional		
	(under FIFRA, as amended)	Name of Pesticide Product: MBI-601 EP	
	g differing in substance from that accepted in connection with this region Prevention Division prior to use of the label in commerce. In any co		
under the Federal Registration is in U.S. Environmen Administrator, or accordance with under the Act is r	formation furnished by the registrant, the above Insecticide, Fungicide, and Rodenticide Act (no way to be construed as an endorsement or a tal Protection Agency (EPA). In order to prote his or her motion, may at any time suspend of the Act. The acceptance of any name in connect not to be construed as giving the registrant a rig covered by others.	FIFRA or the Act). recommendation of t ct health and the env r cancel the registration ction with the registration	his product by the rironment, the on of a pesticide in ation of a product
1. Submit ar	nconditionally registered in accordance with Fand/or cite all data required for registration or re requires all registrants of similar products to su	gistration review of	
Signature of Approving	Official:	Date:	

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ShaRon Carlisle, Acting Chief Microbial Pesticides Branch Biopesticides and Pollution Prevention Division (7511P) Office of Pesticide Programs

EPA Form 8570-6

11/16/2016

- 2. Submit corrosion characteristics (Guideline 830.6320) data as this data requirement is not satisfied. A one-year study is required to satisfy this data requirement. You have 18 months from the date of this registration to provide these data to the EPA.
- 3. Submit confirmatory analysis of samples (Guideline 885.1400) data. You have 18 months from the date of this registration to provide these data to the EPA.
- 4. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 84059-26."
- 5. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

• Basic CSF dated 09/09/2015

Any CSFs other than those listed above are superseded.

If you have any questions, please contact Michael Glikes by phone at (703) 305-6231 or via email at glikes.michael@epa.gov.

Sincerely,

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ShaRon Carlisle, Acting Chief Microbial Pesticides Branch Biopesticides and Pollution Prevention Division (7511P) Office of Pesticide Programs

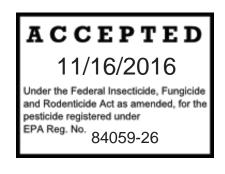
MBI-601 EP

Alternate Brand Names: Chieftain, Patron

MASTER LABEL, containing: Sublabel A: Agricultural Crop Use Sublabel B: Home & Garden Use

EPA Reg. No.: (pending as File Symbol 84059-XX)

Manufactured by: Marrone Bio Innovations, Inc. 1540 Drew Ave. Davis, CA 95618 USA 1-877-664-4476; www.marronebioinnovations.com; info@marronebio.com



Sublabel A: Agricultural Crop Use

MBI-601 EP

For control of nematodes and soil-borne diseases in agricultural soils. (Biological) (Microbial) (Nematicide) (Bionematicide) (Fungicide) (Biofungicide) (Granular) soil treatment.

(Can Be Used in Organic Production) (For Organic Production)(OMRI Placeholder)

Active Ingredient:

Muscodor albus strain SA-13 and spent and unspent fermentation media* 100% *Contains a minimum of 1.0×10^3 cfu/g.

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.		

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

Manufactured by: Marrone Bio Innovations, Inc. 1540 Drew Ave. Davis, CA 95618 USA 1-877-664-4476; <u>www.marronebioinnovations.com</u>; info@marronebio.com

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

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,
- NIOSH approved particulate respirator with any N, R or P 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 there are no such instructions for washables, 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, including 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. Users should remove PPE immediately after handing 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 highwater mark. Do not contaminate water when disposing of equipment washwaters or rinsate. This pesticide is toxic to nontarget insects inhabiting treated soil.

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, including plants, soil or water), is:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

• NIOSH approved particulate respirator with any N, R or P 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.).

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.

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 or dust has settled.

PRODUCT INFORMATION

MBI-601 EP controls or suppresses soil-borne plant diseases and plant parasitic nematodes and insects in horticultural and agricultural soils. The active ingredient, *Muscodor albus* strain SA-13 and spent and unspent fermentation media*, which is made by inoculating sterile grain with Musc*odor albus* strain SA-13, when properly activated, produces volatile organic compounds that inhibit the growth of or kill target pests. MBI-601 EP is incorporated into the soil with discs or other similar equipment before planting, or applied in furrow or post planting along the planning rows, and watered in to activate the volatile compounds.

APPLICATION AND MIXING INSTRUCTIONS

Incorporate MBI-601 EP into soil as a pre-plant, at planting, or post-planting in-furrow soil treatment. Do not mix with water prior to application as the microbe will activate and become degraded when wetted. At the broadcast rate, incorporate the product into the top 6-inches of soil by disking according to the chart below. If applied in furrows, apply at rates based on row spacing. See the chart below for typical 22" row spacing. Treatment area must be watered immediately after application. If rain is not expected following planting and soil is dry, water until the top one inch of soil has a moisture content of 20-50%. Use higher application rates for heavy clay soils or soils with high disease pressure. Use lower rates in loose, sandy soils or soils with low disease pressure.

Application Rates for 22" row spacing					
Heavy soil or high disease pressure Loose, sandy soil or low disease pressure					
Pounds/Acre Pounds/1000 feet of row		Pounds/Acre	Pounds/1000 feet of row		
500-1000 21-42 125-500 5-21					

APPLICATION RATES FOR SELECTED CROPS

Apply MBI-601 EP to the soils of the listed agricultural crops at the following rates based on row spacing

Crop Group

Vegetable and Cole Crops			
Crops	Target pests	Product Use Rate	Application
		per Application	Instructions
Artichokes	Belonolaimus spp.	125-1000 pounds per	
Arugula	(sting nematodes)	acre	
Asparagus			
Beans- including garden,	Criconemoides spp.,		
dried, succulent,	Criconemella spp. and		
adzuki, fava, field,	related genera		
garbanzo, pinto, kidney,	(ring nematodes)		
lentil, lima, moonbeam,			
navy, runner, snap,	Heliocthylenchus spp.		
teary, wax, yard long	(spiral nematodes)		
Beets-including garden			
Bok Choy	<i>Heterodera</i> spp. and		
Broccoli	<i>Globodera</i> spp.		
Broccoli Raab	(cyst nematodes)		
Brussels Sprouts			
Cabbage	<i>Hoplolaimu</i> s spp.		
Cardoni	(lance nematodes)		
Carrots			
Cassava	<i>Meloidogyne</i> spp.		
Cauliflower	(root knot nematodes)		
Cavalo			
Celeriac	Pratylenchus spp.		
Celery	(lesion nematodes)		
Chayote root			

I. Vegetable and Cole Crops

Crops	Target pests	Product Use Rate	Application Instructions
Chervil	Rotylenchus spp.	per Application	instructions
Chick peas	(lance or reniform		
Chicory	nematodes)		
China greens	nematodes)		
Chinese artichoke	Botrytis cinerea		
Chinese broccoli	(Botrytis fruit rot or		
Chinese cabbage (Napa)	blight)		
Chinese mustard	bigitty		
cabbage (Gai Choy)	Fusarium oxysporum		
Collards	(Fusarium root rot)		
Corn salad			
Cress	Macrophomina		
Cucumber	phaseolina		
Cucurbits	(Charcoal rot)		
Dandelion dock			
Dry bulb onions	<i>Pythium</i> spp.		
Edible burdock	(Damping off)		
Edible chrysanthemum			
Edible gourds	Sclerotinia minor		
Eggplant	(Sclerotinia blight)		
Escarole			
Endive	Sclerotinia rolfsii		
Garlic	(Southern blight)		
Ginger	(Codditorri Silgitt)		
Ginseng	Verticillium dahliae		
Green onions	(Verticillium wilt)		
Greens: Beets, China,			
Dandelion, Mustard,			
Turnip, Rape			
Ground cherry			
Horseradish			
Jerusalem artichoke			
Kale			
Kohlrabi			
Leeks			
Lentils			
Lettuce: Head, Leaf,			
Romaine			
Lupine			
Malanga			
Melons: Cantaloupe,			
Crenshaw, Honeydew,			
Muskmelon,			
Watermelon, etc.			
Mizuna			
Mustard spinach			
Napa			
Okra			

Crops	Target pests	Product Use Rate per Application	Application Instructions
Olives			
Onions			
Parsley			
Parsnips			
Peas-including garden,			
dried, succulent,			
blackeyed, chickpea,			
cowpea, crowder,			
edible-pod, English,			
field, green, pigeon,			
snow, sugar snap,			
Pepino			
Peppers			
Potatoes			
Pumpkins			
Purslane			
Radicchio			
Radishes			
Rhubarb			
Rutabaga			
Salsify			
Shallots			
Skirret			
Soybean foliage			
Soybean			
Spinach			
Squash			
Sugar beets			
Sweet potatoes			
Swiss chard			
Tomatillo			
Tomatoes			
Turmeric			
Turnips			
Turnip-rooted chervil			
Turnip-rooted parsley			
Watercress			
Yams			

II. Herbs, spices and mints

Crops	Target pests	Product Use Rate per Application	Application Instructions
Angelica	Belonolaimus spp.	125- 1000 pounds	
Balm	(sting nematodes)	per acre	
Basil			
Borage	Criconemoides spp.,		
Burnet	Criconemella spp. and		
Catnip	related genera		

Crops	Target pests	Product Use Rate per Application	Application Instructions
Chamomile	(ring nematodes)		
Chervil	(inig fieldatedee)		
Chives	Heliocthylenchus spp.		
Cilantro	(spiral nematodes)		
Clary	(opilal nomatodoo)		
Coriander	Heterodera spp. and		
Costmary	Globodera spp.		
Curry	(cyst nematodes)		
Dill	(0)000000000000000000000000000000000000		
Dillweed	Hoplolaimus spp.		
Fennel	(lance nematodes)		
Horehound	(lance homatedee)		
Hyssop	Meloidogyne spp.		
Lavender	(root knot nematodes)		
Lemongrass			
Lovage	Pratylenchus spp.		
Marjoram	(lesion nematodes)		
Mint	(1001011110111010000)		
Nasturtium	Rotylenchus spp.		
Oregano	(lance or reniform		
Parsley-including dried	nematodes)		
Peppermint			
Rosemary	Botrytis cinerea		
Sage	(Botrytis fruit rot or		
Savory- summer and	blight)		
winter	g,		
Spearmint	Fusarium oxysporum		
Sweet bay	(Fusarium root rot)		
Tansy			
Tarragon	Macrophomina		
Thyme	phaseolina		
Wintergreen	(Charcoal rot)		
Woodruff	, , ,		
Wormwood	<i>Pythium</i> spp.		
	(Damping off)		
	Sclerotinia minor		
	(Sclerotinia blight)		
	Sclerotinia rolfsii		
	(Southern blight)		
	Verticillium dahliae		
	(Verticillium wilt)		

III. Pasture and Hay Crops			
Crops	Target pests	Product Use Rate	Application
		per Application	Instructions
Alfalfa: hay and seed	Belonolaimus spp.	125-1000 pounds	
Hay and other forage	(sting nematodes)	per acre	
crops			
Pasture: grasses and hay	Criconemoides spp.,		
Silage	<i>Criconemella</i> spp. and		
Onage	related genera		
	(ring nematodes)		
	(IIIIg Hernatodes)		
	Heliocthylenchus spp.		
	(spiral nematodes)		
	Heterodera spp. and		
	<i>Globodera</i> spp.		
	(cyst nematodes)		
	Hoplolaimus spp.		
	(lance nematodes)		
	<i>Meloidogyne</i> spp.		
	(root knot nematodes)		
	Pratylenchus spp.		
	(lesion nematodes)		
	(iesion nematodes)		
	Rotylenchus spp.		
	(lance or reniform		
	nematodes)		
	Detrutia sin suss		
	Botrytis cinerea		
	(Botrytis fruit rot or		
	blight)		
	Fusarium oxysporum		
	(Fusarium root rot)		
	Macrophomina		
	phaseolina		
	(Charcoal rot)		
	<i>Pythium</i> spp.		
	(Damping off)		
	Sclerotinia minor		
	(Sclerotinia blight)		
	Sclerotinia rolfsii		
	(Southern blight)		
		1	1

III. Pasture and Hay Crops

Crops	Target pests	Product Use Rate per Application	Application Instructions
	<i>Verticillium dahliae</i> (Verticillium wilt)		

IV. Fruit, Nut and Vine Crops

Crops	Target pests	Product Use Rate	Application
		per Application	Instructions
Pome and Stone Fruit Trees:	Belonolaimus	125-1000 pounds	Mix into planting
Apples	spp.	per acre	soil
Apricots	(sting nematodes)		
Crabapple Cherries	Crissnamaidaa		
	Criconemoides		
Figs	spp.,		
Loquat Mayhaw	<i>Criconemella</i> spp. and related		
Nectarines	genera		
Peaches	(ring nematodes)		
Pears	(ing nematodes)		
Plums	Heliocthylenchus		
Prunes	spp.		
Quince	(spiral		
	nematodes)		
	/		
	Heterodera spp.		
	and Globodera		
	spp.		
	(cyst nematodes)		
	Hoplolaimus spp.		
	(lance		
	nematodes)		
	Meloidogyne spp.		
	(root knot		
	nematodes)		
	nomato acc)		
	Pratylenchus spp.		
	(lesion		
	nematodes)		
	Rotylenchus spp.		
	(lance or reniform		
	nematodes)		
Nut Trees:	Botrytis cinerea		
Almonds	(Botrytis fruit rot		
Cashew	or blight)		
Chestnuts			
Filberts (Hazelnuts)	J		I

Crops	Target pests	Product Use Rate per Application	Application Instructions
Macadamia Nut Pecans Pistachios Walnuts	<i>Fusarium</i> oxysporum (Fusarium root rot)	per rippression	
	<i>Macrophomina phaseolina</i> (Charcoal rot)		
	<i>Pythium</i> spp. (Damping off)		
	<i>Sclerotinia minor</i> (Sclerotinia blight)		
	<i>Sclerotinia rolfsii</i> (Southern blight)		
	<i>Verticillium dahliae</i> (Verticillium wilt)		
Tree Fruits: Acerola Atemoya Biriba Black sapote Canistel Cherimoya Custard apple Feijoa Guava Llama Jaboticaba Kiwi Longan Lychee Mamey sapote Mamey sapote Mango Papaya Passionfruit Pulasan Rambutan Sapodilla Soursop Spanish lime Star apple Starfruit			

Crops	Target pests	Product Use Rate per Application	Application Instructions
Sugar apple			
Ti palm			
Wax jambu (wax apple)			
White sapote			
Citrus:	1		
Grapefruit			
Lemons			
Limes			
Oranges			
Tangerines			
Small Fruit and Berries:	-		
Blackberries			
Blueberries			
Boysenberries			
Cranberries			
Currants			
Elderberry			
Gooseberry			
Huckleberry			
Juneberry			
Ligonberry			
Loganberries			
Raspberries-black, red,			
cultivars and hybrids			
Salal			
Strawberries			
Grapes	_		
Tropical and Other Fruit:			
Avocados	_		
Bananas	_		
Kiwi	_		
Persimmons			
Pomegranate	4		
Pineapple	4		
Tropical/ Sub-tropical fruits:			
Avocado			
Guava			
Lychee			
Sugar apple			

V. Field Crops

Crops	Target pests	Product Use Rate per Application	Application Instructions
Canola/Rape Seed Evening Primrose	Belonolaimus spp.	125-1000 pounds per acre	
Meadow Foam]	'	

Crops	Target pests	Product Use Rate per Application	Application Instructions
	(sting		
	nematodes)		
	Criconemoides		
	spp.,		
	Criconemella		
	spp. and related		
	genera		
	(ring nematodes)		
	Heliocthylenchus		
	spp.		
	(spiral		
	nematodes)		
	Heterodera spp.		
	and Globodera		
	spp.		
	(cyst		
	nematodes)		
	Hoplolaimus		
	spp.		
	(lance		
	nematodes)		
	Meloidogyne		
	spp.		
	(root knot		
	nematodes)		
	,		
	Pratylenchus		
	spp.		
	(lesion		
	nematodes)		
	Potulonohuo		
	Rotylenchus		
	spp. (lance or		
	reniform		
	nematodes)		
	Botrytis cinerea		
	(Botrytis fruit rot		
	or blight)		
	Fusarium		
	oxysporum		

Crops	Target pests	Product Use Rate per Application	Application Instructions
	(Fusarium root		
	rot)		
	Macrophomina		
	phaseolina (Charcoal rot)		
	<i>Pythium</i> spp. (Damping off)		
	<i>Sclerotinia minor</i> (Sclerotinia blight)		
	<i>Sclerotinia rolfsii</i> (Southern blight)		
	Verticillium		
	<i>dahliae</i> (Verticillium wilt)		
Come Field Cureat Descent	-		
Corn: Field, Sweet, Popcorn, Seed			
Cotton	-		
Hops	_		
Jojoba	_		
Peanuts	_		
Rice	_		
Safflower	_		
Small grains:			
Barley			
Buckwheat			
Grain amaranth			
Millet			
Milo			
Oats Pearl			
Proso millet			
Rye			
Triticale			
Wheat			
Sorghum	1		
Soybeans	1		
Sunflowers- oil and seed	1		
Tobacco	1		
Coffee	1		

Crops	Target pests	Product Use Rate	Application
		per Application	Instructions
Bedding Plants Flowers: greenhouse and field Greenhouse ornamentals Greenhouse vegetables Container stock	Belonolaimus spp. (sting nematodes) Criconemoides spp., Criconemella spp. and related genera (ring nematodes)	125-1000 pounds per acre	
	Heliocthylenchus spp. (spiral nematodes)		
	<i>Heterodera</i> spp. and <i>Globodera</i> spp. (cyst nematodes)		
	<i>Hoplolaimus</i> spp. (lance nematodes)		
	<i>Meloidogyne</i> spp. (root knot nematodes)		
	<i>Pratylenchus</i> spp. (lesion nematodes)		
	Rotylenchus spp. (lance or reniform nematodes) Botrytis cinerea (Botrytis fruit rot or blight)		
	<i>Fusarium oxysporum</i> (Fusarium root rot)		
	<i>Macrophomina phaseolina</i> (Charcoal rot)		
	<i>Pythium</i> spp. (Damping off)		

VI. Commercial Flowers and Ornamental Plants

Crops	Target pests	Product Use Rate per Application	Application Instructions
	Sclerotinia minor (Sclerotinia blight)		
	<i>Sclerotinia rolfsii</i> (Southern blight)		
	<i>Verticillium dahliae</i> (Verticillium wilt)		

VII. Forest, Shade Tree and Nursery Stock

Deciduousper ApplicationInstructionsForestSpp.125-1000 pounds per acre125-1000 pounds per acreShade Trees(sting nematodes)125-1000 pounds per acreOrnamental Treescriconemoides spp., Criconemella spp. and related genera (ring nematodes)125-1000 pounds per acreHeliocthylenchus spp. (spiral nematodes)Spp.125-1000 pounds per acreHeliocthylenchus spp., (criconemella spp. and related genera (ring nematodes)125-1000 pounds per acreHeliocthylenchus spp. (cyst nematodes)Heliocthylenchus spp. (cyst nematodes)Heterodera spp. and Globodera spp. (cyst nematodes)Heliochogyne spp. (lance nematodes)Hoplolaimus spp. (lance nematodes)Spp. (lance nematodes)Meloidogyne spp.Spp. (lance nematodes)Meloidogyne spp.Spp. (lance nematodes)	Crops	Target pests	Product Use Rate	Application
Forest Shade Trees Nursery Trees Ornamental Trees Confers-including Christmas treesspp. (sting nematodes)per acreCriconemoides spp., Criconemella spp. and related genera (ring nematodes)Friconemella spp. and related genera (ring nematodes)Heliocthylenchus spp. (spiral nematodes)Heliocthylenchus spp. (cyst nematodes)Heterodera spp. and Globodera spp. (cyst nematodes)Heterodera spp. and Globodera spp. (cyst nematodes)Hoplolaimus spp. (lance nematodes)Meloidogyne spp.				Instructions
(root knot nematodes) Pratylenchus	Deciduous Forest Shade Trees Nursery Trees Ornamental Trees Confers-including Christmas	Belonolaimus spp. (sting nematodes) Criconemoides spp., Criconemella spp. and related genera (ring nematodes) Heliocthylenchus spp. (spiral nematodes) Heterodera spp. and Globodera spp. (cyst nematodes) Hoplolaimus spp. (lance nematodes) Meloidogyne spp. (root knot nematodes)	per Application 125-1000 pounds	

Crops	Target pests	Product Use Rate per Application	Application Instructions
	(lesion		
	nematodes)		
	Rotylenchus		
	spp.		
	(lance or		
	reniform		
	nematodes)		
	Botrytis cinerea		
	(Botrytis fruit rot		
	or blight)		
	Europeinen		
	Fusarium		
	oxysporum (Fusarium root		
	rot)		
	100		
	Macrophomina		
	phaseolina		
	(Charcoal rot)		
	Pythium spp.		
	(Damping off)		
	(2 apg c)		
	Sclerotinia minor		
	(Sclerotinia		
	blight)		
	Sclerotinia rolfsii		
	(Southern blight)		
	(200		
	Verticillium		
	dahliae		
	(Verticillium wilt)		
		1	

VIII. Turf			
Crops	Target pests	Product Use Rate per Application	Application Instructions
Turf- including turf grown for seed	<i>Belonolaimus</i> spp. (sting nematodes)	250- 1000 pounds per acre	Apply into soil as a pre-plant soil treatment
	Criconemoides spp.,		

Crops	Target pests	Product Use Rate per Application	Application Instructions
	<i>Criconemella</i> spp. and related genera (ring nematodes)		
	<i>Heliocthylenchus</i> spp. (spiral nematodes)		
	<i>Heterodera</i> spp. and <i>Globodera</i> spp. (cyst nematodes)		
	<i>Hoplolaimus</i> spp. (lance nematodes)		
	<i>Meloidogyne</i> spp. (root knot nematodes)		
	<i>Pratylenchus</i> spp. (lesion nematodes)		
	Rotylenchus spp. (lance or reniform nematodes)		
	<i>Botrytis cinerea</i> (Botrytis fruit rot or blight)		
	<i>Fusarium</i> oxysporum (Fusarium root rot)		
	Macrophomina phaseolina		

Crops	Target pests	Product Use Rate per Application	Application Instructions
	(Charcoal rot)		
	<i>Pythium</i> spp. (Damping off)		
	<i>Sclerotinia minor</i> (Sclerotinia blight)		
	<i>Sclerotinia rolfsii</i> (Southern blight)		
	<i>Verticillium dahliae</i> (Verticillium wilt)		

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place out of direct sunlight and away from heat sources. Keep container closed when not in use. Store for up to one year after the date of purchase.

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). Pesticide wastes may be toxic. Improper disposal of unused pesticide, washwater or rinse water is a violation of federal law.

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 if allowed by state and local authorities, by burning. If burned, stay out of smoke. If burned, stay out of smoke.

ACRC Logo Placeholder

Marrone Bio Innovations is a member of the Ag Container Recycling Council. 223 South Main Street, Lexington, VA 24450 Visit <u>http://www.acrecycle.org/Contact</u> for information on how to arrange pick-up of this empty pesticide container.

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. The user assumes all risks of use, storage or handling that are not in accordance with the accompanying directions.

Sublabel B: Home & Garden Use

MBI-601 EP

For control of nematodes and soil-borne diseases in home garden soils. (Biological) (Microbial) (Nematicide) (Bionematicide) (Fungicide) (Biofungicide) (Granular) soil treatment.

(Can Be Used in Organic Gardening) (For Organic Gardening)(OMRI Placeholder)

Active Ingredient: *Muscodor albus* strain SA-13 and spent and unspent fermentation media *Contains a minimum of 1.0×10^3 cfu/g

100%

KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID			
	 Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. 			
If in eyes	• 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. Y	ou may also contact 1-800-222-1222 for emergency medical treatment information.			

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

Manufactured by: Marrone Bio Innovations, Inc. 1540 Drew Ave. Davis, CA 95618 USA 1-877-664-4476; <u>www.marronebioinnovations.com</u>; info@marronebio.com

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

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. This pesticide is toxic to non-target insects inhabiting treated soil.

DIRECTIONS FOR USE

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

HOW IT WORKS

MBI-601 EP controls or suppresses plant parasitic nematodes and soil-borne plant diseases in home garden soils. The active ingredient, *Muscodor albus* strain SA-13 and spent and unspent fermentation media*, which is made by inoculating sterile grain with *Muscodor albus* strain SA-13, when properly activated produces gases that stops the growth or kills target pests. MBI-601 EP is incorporated into the soil with a shovel or a rotor-tiller, in about 6 inch depth and watered in one inch top layer in to activate the microbe to produce the gases for about 5-7 days.

Target pests affected are:

Belonolaimus spp. (sting nematodes) Criconemoides spp., Criconemella spp. and related genera (ring nematodes) Heliocthylenchus spp. (spiral nematodes) Heterodera spp. and Globodera spp. (cyst nematodes) Hoplolaimus spp. (lance nematodes) Meloidogyne spp. (root knot nematodes) Pratylenchus spp. (lesion nematodes) Rotylenchus spp. (lesion nematodes) Botrytis cinerea (Botrytis fruit rot or blight) Fusarium oxysporum (Fusarium root rot) Macrophomina phaseolina (Charcoal rot) Pythium spp. (Damping off) Sclerotinia minor (Sclerotinia blight) Sclerotinia rolfsii (Southern blight) Verticillium dahliae (Verticillium wilt)

HOW TO APPLY

Mix MBI-601 EP into the soil at a rate of 0.6 to 1.2 pounds per cubic feet. Incorporate the product into the top 6-inches of soil with a shovel or rotor tiller and water in one inch top soil. Keep moisture at about 20-50% for 5-7 days before planting.

WHERE TO APPLY

Apply on all types of vegetables, fruits and flowering plants, including:

Annuals Perennials **Bedding Plants** Ground Covers Potted Flowers Flowering Plants Foliage Plants Tomatoes Peppers Includes all types and hybrids of: Cucumber Pumpkin Watermelon Muskmelon: Cantaloupe Casaba Crenshaw melon Golden pershaw melon Honeydew melon Honey balls Mango melon Persian melon Pineapple melon Santa Claus melon Snake melon Summer Squash: Crookneck squash Scallop squash Straightneck squash Vegetable marrow Zucchini Winter Squash: Acorn squash Butternut squash Calabaza Hubbard squash Spaghetti squash Arugula Beet Celery

Cress Endive Head Lettuce Leaf Lettuce Radicchio Rhubarb Spinach Swiss Chard Watercress Garlic Onions Broccoli Broccoli Rabe Brussels Sprouts Cabbage Chinese Broccoli Chinese Cabbage (Bok Choy) Chinese Cabbage (Napa) **Chinese Mustard** Cabbage (Gai Chov) Cauliflower Collards Kale Mustard Greens Mustard Spinach Rape Greens Turnip

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place out of direct sunlight and away from heat sources. Keep container closed when not in use. Store for up to one year after the date of purchase.

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.

MARRONE BIO INNOVATIONS WARRANTY

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