

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 20, 2016

Jacob S. Moore Authorized Agent for Vestaron Corporation Technology Sciences Group, Inc. 712 Fifth Street, Suite A Davis. CA 95616

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – To Add

Date of Manufacture, Insecticide Resistance Action Committee (IRAC) Code, Additional Pests (Whitefly/Two-Spotted Spider Mite), Directions for Use for Greenhouse Applications, Clarification about Ineffectiveness on Egg Stage, Clarification for Adjuvants, Incompatibility Information, and Revised Warranty

Statement; to Update the Container Handling Statements; and to Make Other Revisions

Requested by the EPA

Product Name: VST-006330 EP EPA Registration Number: 88847-2 Application Date: 06/24/2016 OPP Decision Number: 519176

### Dear Mr. Moore:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

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 U.S.

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Environmental Protection Agency (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.

If you have any questions, please contact Susanne Cerrelli by phone at (703) 308-8077 or via email at cerrelli.susanne@epa.gov.

Sincerely,

Jeannine Kausch, Acting Product Manager 92 Microbial Pesticides Branch

Biopesticides and Pollution Prevention Division (7511P) Office of Pesticide Programs

# **VST-006330 EP**

# **MASTER LABEL, containing:**

Sublabel A: Greenhouse and Field Use

Sublabel B: Greenhouse and Field Use in Tank

**Mixes with Bts** 

Sublabel C: Home & Garden Use

### **Alternate Brand Names:**

"Spear™"

 Active Ingredient:
 GS-omega/kappa-Hxtx-Hv1a
 20.00%

 Other Ingredients:
 80.00%

 Total:
 100.00%

EPA Reg. No.: 88847-2 Net Contents: XX (Batch)(Lot) No: XXXX Date of Manufacture:

Manufactured by: Vestaron Corporation

4717 Campus Drive, Ste. 1200

Kalamazoo, MI 49008

ACCEPTED

**EPA Est. No.:** XXXXX-XX-XX

12/20/2016

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

88847-2

Note: Text in parenthesis indicates optional text.

<sup>&</sup>quot;Spear™ T"

<sup>&</sup>quot;Spear™ T Thrip Control"

<sup>&</sup>quot;Spear™ C"

<sup>&</sup>quot;Spear™ P"

# Sublabel A: Greenhouse and Field Use

UN INSECTICIDE GROUP

# **VST-006330 EP**

# **Biological Insecticide**

(For Greenhouse Thrip(s) Management) (For Use Against Thrip(s) in Greenhouses) (Biological Insecticide for Greenhouse Thrips/Whitefly/Two-Spotted Spider Mite) (Not for residential use)

Active Ingredient: GS-omega/kappa-Hxtx-Hv1a ............... 20.00% **Other Ingredients:** 80.00% 

(NOTICE: Read the entire label. Use only according to label instructions. Before using the product, read TERMS AND CONDITIONS OF USE, WARRANTY DISCLAIMER, INHERENT RISKS OF USE and LIMITATION OF REMEDIES at the end of the label instructions. If such terms are unacceptable, return the unopened package at once to Vestaron Corporation.)

# KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID		
If in eyes	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> </ul>	
	• 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 on skin	Take off contaminated clothing.	
or 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 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 Est. No.: XXXXXX-XX-XXX **EPA Reg. No.:** 88847-2

**Net Contents:** XX (Batch)(Lot) No: XXXX **Date of Manufacture:** 

Manufactured by: Vestaron Corporation

4717 Campus Drive, Ste. 1200

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# PRECAUTIONARY STATEMENTS

**Hazards to humans and domestic animals - CAUTION.** Causes moderate eye and skin irritation. Avoid contact with eyes, skin or clothing. Wear protective eyewear and gloves. 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

Follow the manufacturer's instructions for cleaning / maintaining PPE. If no instructions are available, use detergent and hot water for washables. 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)(406)], the handler PPE requirements may be reduced or modified as specified in the WPS.

# **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 highwater mark. Do not contaminate water when disposing of equipment washwaters 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

VST-006330 EP is a biological insecticide containing the active ingredient GS-omega/kappa-Hxtx-Hv1a for use on ornamental plants, turf and edible crops against (cabbage looper (*Tricoplusia ni*) and other lepidopteran pests, Thysanoptera, and Coleopteran pests) (thrips, two-spotted spider mites and whiteflies). VST-006330 EP functions primarily as a central nervous inhibitor of target pests infesting labeled crops. VST-006330 EP is mixed with water and applied as a foliar spray (with ground or aerial equipment equipped for conventional insecticide spraying).

VST-006330 EP (can be used in either the field or) (is designed for) greenhouse (use).

# **USE INSTRUCTIONS**

VST-006330 EP is a highly selective insecticide for use against the listed insect pest. Close scouting and early attention to infestations is highly recommended. Proper timing of application targeting newly hatched larvae is important for optimal results. (VST-006330 EP is not effective on the egg stage.)

Thorough coverage of infested plant parts is necessary. VST-006330 EP does not have systemic activity. (For some crops, directed drop nozzles by ground machine are required).

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

Repeat applications at 3-10 day intervals depending upon plant growth rate, insect activity, and other factors.

Tank mix with contact insecticides/miticides, to enhance performance. Refer to tank mix section.

For hard-to-wet crops, consider using a spreader/sticker or an adjuvant that has been approved for targeted crop use to enhance the adhesion of VST-006330 EP to the crop. Examples of appropriate spreader/stickers or adjuvants are: (1) alkoxylated surfactants, 2) organic silicates, 3) vegetable oils, 4) methylated vegetable oils, 5) mineral oils, and/or 6) phospholipids)(crop oils and non-ionic surfactants).

VST-006330 EP 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.

# (Integrated Pest Management (IPM):

VST-006330 EP is an important tool in sound insect management whenever insecticide use is necessary. Apply VST-006330 EP alone or in combination and / or rotation with chemical insecticides. This will result in reduced susceptibility to insect damage and overall reduction in the use of chemical insecticides. Consult local agricultural authorities for specific IPM strategies developed for your crop(s) and location.)

# Preharvest interval – agricultural use:

VST-006330 EP can be applied up to and including the day of harvest.

# (GROUND AND AERIAL APPLICATIONS) (APPLICATION INSTRUCTIONS)

USE RESTRICTION: Do not apply more than 10 lbs. VST-006330 EP per acre per year.

Apply VST-006330 EP (in ground and aerial equipment) with quantities of water sufficient to provide thorough coverage of infested plant parts. (Spray to wet, not to runoff.) 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 VST-006330 EP 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 VST-006330 EP. Add the desired volume of VST-006330 EP to the mix tank and continue circulation. Maintain circulation while loading and spraying. Do not mix more VST-006330 EP than can be used in 24 hours.

# (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 VST-006330 EP 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. Follow the most restrictive of the labeling limitations and precautions of all products used in mixtures.

(VST-006330 EP is not compatible with strong oxidizers, such as chlorine, which can degrade the product.)

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 be

remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

# (GREENHOUSE USE DIRECTIONS

Make applications with high pressure, low volume or ultra-low volume (thermal and non-thermal foggers) misters, aerosol generators or hydraulic boom sprayers. Mix 0.9 ounce (25 g) of VST-006330 EP per 1 quart (1 liter) of water. Apply 1 quart (1 liter) of spray solution per 1,000 square feet of greenhouse bench space. Mix product well and agitate thoroughly to ensure product is completely dissolved. Turn off exhaust fans and close vents during application. Begin applications when pests reach threshold levels.)

# **CHEMIGATION USE DIRECTIONS**

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation systems. 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 VST-006330 EP in a mix tank. Fill tank  $\frac{1}{2}$  to  $\frac{3}{4}$  the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of VST-006330 EP, 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 VST-006330 EP into the irrigation water line so as to deliver the desired rate per acre. Inject the suspension of VST-006330 EP with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. Any questions on calibration should be directed to your State Extension Service Specialists, to equipment manufacturers or other experts.

Do not combine VST-006330 EP with 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. VST-006330 EP has not been fully evaluated for compatibility with all adjuvants or surfactants. It is advisable to conduct a spray compatibility test if a mixture with adjuvants or surfactants is planned.

# GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in the mix tank during mixing and application to insure 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. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. 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. 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, 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.

Do not apply when wind speed favors drift, 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 ADVISORY INFORMATION**

**GENERAL:** Avoiding spray drift at the application site is the responsibility of the applicator. 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. Note: This section is advisory in nature and does not supersede the mandatory label requirements.

**INFORMATION ON 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**: Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Pressure - Do not exceed the nozzle manufacturer's recommended 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. Number of nozzles - Use the minimum number of nozzles that provide uniform coverage. Nozzle Orientation - 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. Nozzle Type - 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. Use upwind swath displacement and apply only when wind speed is 3-10 mph as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a nospray zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.

**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.

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: 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, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

# APPLICATION RATES FOR VST-006330 EP ON THE FOLLOWING CROPS:

# Pre-harvest Interval (PHI) = 0 days

# I. Vegetable and Cole Crops (Groups 1, 3, 4, 5, 6, 8 and 9) (Greenhouse Vegetables):

Crops	Insect Pest	Application Rate
Arrachacha	Armyworm	4 lbs. VST-006330 EP/acre
Arrowroot	Cabbage looper	
Artichokes	Diamondback Moth	
Arugula	Imported Cabbage Worm	
Asparagus	Looper	
Beans (- including garden, dried,	Melonworm	
succulent,		
adzuki, fava, field, garbanzo, pinto,		
kidney,	Carrot weevil	1-4 lbs. VST-006330
lentil, lima, moonbeam, navy,	Colorado potato beetle	EP/acre
runner, snap,	Japanese beetle	
teary, wax, yard long) (all		
varieties)	Pepper Weevil	
Beets-including garden	Spotted cucumber beetle	
Bok Choy	Striped cucumber beetle	
Broccoli	Western Stripped Cucumber	
Broccoli Raab	beetle	
Brussels Sprouts	Japanese beetle larvae	
Burdock		
Cabbage	Thrips	
Canna	Two-spotted spider mites	0.05.04
Cardoni	Whiteflies	0.25-2lbs. VST-006330
Carrots		EP/acre
Cassava		0.9 ounce (25 g) VST-
Cauliflower		0.9 ounce (23 g) v31-
Cavalo		water per 1,000 square feet
Celeriac		of bench space
Celery		or benefit space
Chayote root		
Chervil		
Chick peas		
Chicory China greens		
Chinese artichoke		
Chinese broccoli		
Chinese cabbage (Napa)		
Chinese mustard cabbage		
Chinese waxgourd		
Chufa		
Cocona		
Collards		
Corn salad		
Cress		
Cucumber (all varieties)		
- acamino (an ranono)	I	<u>l</u>

Cucurbits including cantaloupe and	
watermelon	
Dandelion dock	
Dasheen	
Dry bulb onions	
Edible burdock	
Edible chrysanthemum	
Edible gourds	
Eggplant	
Escarole	
Endive	
Garlic	
Ginger	
Ginseng	
Green onions	
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	
Olives	
Onions	
Parsley	
Parsnips	
Peas-including garden, dried,	
succulent,	
black-eyed, chickpea, cowpea,	
crowder,	
edible-pod, English, field, green,	
pigeon,	
snow, sugar snap	
Pepino	
Peppers (– including bell, chili,	
cooking, pimento, sweet) (all	
varieties)	
Potatoes	
Pumpkins	
Purslane	
Radicchio	

Radishes	
Rhubarb	
Rutabaga	
Salsify	
Shallots	
Skirret	
Soybean foliage	
Soybean	
Spinach	
Squash	
Sugar beets	
Sweet potatoes	
Swiss chard	
Tanier	
Tomatillo	
Tomatoes (all varieties)	
Turmeric	
Turnips	
Turnip-rooted chervil	
Turnip-rooted parsley	
Watercress	
Yam bean	
Yams	

# II. Field Crops

Crop	Insect Pest	Application Rate
Alfalfa, Hay and other forage Crops	Armyworm Looper	4 lbs. VST-006330 EP/acre
	Alfalfa weevil	1-4 lbs. VST-006330 EP/acre
Canola, rapeseed	Looper Armyworm	4 lbs. VST-006330 EP/acre
Cotton	Armyworm Cabbage looper	4 lbs. VST-006330 EP/acre
Grain, cereal (Group 15): Barley, Corn (sweet and field) , Popcorn, Rice, Sorghum, Wheat	Thrips Armyworm Looper	0.25-2lbs. VST-006330 EP/acre 4 lbs. VST-006330 EP/acre
	Corn rootworm -including Northern, Western, Southern, Mexican Spotted cucumber beetle Striped cucumber beetle Western Stripped Cucumber beetle	4 lbs. VST-006330 EP/acre

	Thrips, Japanese Beetle	0.25-2lbs. VST-006330 EP/acre
Hops	Armyworm Looper	4 lbs. VST-006330 EP/acre
Safflower	Armyworm Looper	4 lbs. VST-006330 EP/acre
Soybean	Armyworm Cabbage Looper Thrips	4 lbs. VST-006330 EP/acre  0.25-2lbs. VST-006330 EP/acre
Sunflower	Looper	4 lbs. VST-006330 EP/acre
Tobacco	Cabbage looper Looper	4 lbs. VST-006330 EP/acre

# III. Commercial Flowers and Ornamental Plants

Crop	Insect Pest	Application Rate
Flowers: greenhouse (and field) Bedding Plants Cut Flowers Ornamentals: greenhouse (and field) Container Stock	Armyworm Beet armyworm Diamondback moth Loopers	4 lbs. VST-006330 EP/acre
	Cabbage looper	0.5 – 1.0 lbs. VST-006330 EP/100 gal
	Thrips Two-spotted spider mites Whiteflies	11-64 oz. VST-006330 EP/100 gal  0.9 ounce (25 g) VST-006330 EP in 1 quart (1 liter) water per 1,000 square feet of bench space

# IV. Herbs (Group 19)

Crop	Insect Pest	Application Rate
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Basil	Armyworm	4 lbs. VST-006330 EP/acre
Chive	Cabbage Looper	
Cilantro	Looper	0.9 ounce (25 g) VST-006330
Dill	Thirps	EP in 1 quart (1 liter) water per
Mint	Two-spotted spider mites	1,000 square feet of bench
Parsley	Whiteflies	space
Rosemary		
Sage		
Thyme		

# V. Tree, Bush and Vine Crops

Crop	Insect Pest	Application Rate
Bushberry and Caneberry (Group 13-07) - Including: Blackberry, Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lignonberry, Loganberry, Raspberry Salal, Strawberry Sunberry	Achema Sphinx Moth (hornworm) Armyworm Cherry Fruitworm Cranberry Fruitworm Cutworm Grape Leafroller Grapeberry moth Grapeleaf Skeletonizer Gypsy Moth Looper Melonworm Obliquebanded Leafroller Orange Tortix Saltmarsh Caterpillar Tobacco budworm Japanese Beetle Pepper Weevil White grub -including European, Chafer larvae, May/June beetle larvae, Japanese beetle larvae, Oriental beetle larvae	4 lbs. VST-006330 EP/acre  1-4 lbs. VST-006330 EP/acre
Citrus (Group 10) - Including: Calamondin, Citrus citron, citrus hybrids (including chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange, Satsuma mandarin, White sapote	Citrus Root weevil (larval complex)	1-4 lbs. VST-006330 EP/acre
Climbing vines (Group 13-07)- Including but not limited to: Grapes, Gooseberry, Kiwifruit, Maypop, Schisandra berry,	Armyworm Looper Melonworm	4 lbs. VST-006330 EP/acre

	Japanese Beetle	4 lbs. VST-006330 EP/acre
Low growing berries (Group 13- 07)- Including but not limited to: Bearberry, Bilberry, Lowbush Blueberry, Cloudberry,	Armyworm Looper Melonworm	4 lbs. VST-006330 EP/acre
Cranberry, Lignonberry, Muntries, Partridgeberry	White grub -including European, Chafer larvae, May/June beetle larvae, Japanese beetle larvae, Oriental beetle larvae	1-4 lbs. VST-006330 EP/acre
Pome fruit (Group 11-10) - Including: Apple, Azarole,	Armyworm	4 lbs. VST-006330 EP/acre
Crabapple, Loquat, Mayhaw, Hook, Medlar, Pear, Quince, Tejocote	Japanese Beetle	1-4 lbs. VST-006330 EP/acre
Pomegranate	Armyworm	4 lbs. VST-006330 EP/acre
Stone Fruit (Group 12) - Including: Apricot, Cherry, Nectarine, Peach, Plum, Plumcot, Prune	Japanese Beetle	1-4 lbs. VST-006330 EP/acre
Tree nuts (Group 14) - Including: Almond, Beech nut, Brazil nut, Butternut, Cashew,	Armyworm	4 lbs. VST-006330 EP/acre
Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia Nut, Pecan, Pistachio, Walnut	Pecan Weevil	1-4 lbs. VST-006330 EP/acre
Tropical Fruit	Looper Omnivorous Looper	4 lbs. VST-006330 EP/acre

# VI. Forest, Shade Tree and Nursery Stock

Crop	Insect Pest	Application Rate
Deciduous	Armyworm	4 lbs. VST-006330 EP/acre
Forest	Loopers	
Shade Trees		
Nursery Trees		
Ornamental Trees		
Confers-including Christmas		
trees		

# VII. Turf

Crop	Insect Pest	Application Rate
Turf- including turf grown for	Armyworm	4 lbs. VST-006330 EP/acre
seed or sod	Cutworms	
	Sod webworm	

Tropical sod webworm	
Grubs	1-4 lbs. VST-006330 EP/acre
Japanese beetle larvae	

# STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in original container at less than 40°F for up to 6 months after date of manufacture. Do not allow product to freeze. Keep container closed and away from moisture when not in use.

**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 of by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances. If burned, stay out of smoke.

#### TERMS AND CONDITIONS OF USE

If the terms of the following WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES are not acceptable, return the unopened package at once to Vestaron Corporation. Otherwise, use of the product will constitute acceptance of the terms under WARRANTY DISCLAIMER, INHERENT RISKS OF USE and LIMITATION OF REMEDIES.

#### WARRANTY DISCLAIMER

TO THE EXTENT PERMITTED BY APPLICABLE LAW, VESTARON CORPORATION MAKES NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE CONCERNING USE OF THE PRODUCT.

### **INHERENT RISKS OF USE**

It is impossible to eliminate all risks associated with use of the product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use, storage or handling of the product not in strict accordance with the accompanying label instructions, abnormal conditions, presence of other materials, or other factors, all of which are beyond the control of Vestaron Corporation. All such risks shall be assumed by the user.

### LIMITATION OF REMEDIES

To the extent permitted by law, the exclusive remedy for losses or damages resulting from the product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to replacement of the amount of product used. To the extent permitted by law, Vestaron Corporation disclaims any liability for incidental, consequential, exemplary, special or indirect damages resulting from the use, storage or handling of the product.

The terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES [cannot be varied by any written or verbal statements or agreements. No employee or other agent of Vestaron Corporation is authorized to vary or exceed the terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES in any manner/may be varied only by agreement in writing signed by a duly authorized representative of Vestaron Corporation].

# Sublabel B: Greenhouse and Field Use in Tank **Mixes with Bts**

GROUP UN INSECTICIDE

# **VST-006330 EP**

# **Biological Insecticide**

Active Ingredient: GS-omega/kappa-Hxtx-Hv1a	. 20.00%
Other Ingredients:	. 80.00%
Total:	100.00%

(NOTICE: Read the entire label. Use only according to label instructions. Before using the product, read TERMS AND CONDITIONS OF USE, WARRANTY DISCLAIMER, INHERENT RISKS OF USE and LIMITATION OF REMEDIES at the end of the label instructions. If such terms are unacceptable, return the unopened package at once to Vestaron Corporation.)

# **KEEP OUT OF REACH OF CHILDREN CAUTION**

FIRST AID		
If in eyes	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> </ul>	
	• 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 on skin	Take off contaminated clothing.	
or 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		

## 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 Est. No.:** XXXXX-XX-XXX **EPA Reg. No.:** 88847-2

**Net Contents:** XX (Batch)(Lot) No: XXXX

Date of Manufacture:

Manufactured by: **Vestaron Corporation** 

4717 Campus Drive, Ste. 1200

Kalamazoo, MI 49008

# **PRECAUTIONARY STATEMENTS**

**Hazards to humans and domestic animals - CAUTION.** Causes moderate eye and skin irritation. Avoid contact with eyes, skin or clothing. Wear protective eyewear and gloves. 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

Follow the manufacturer's instructions for cleaning / maintaining PPE. If no instructions are available, use detergent and hot water for washables. 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)(406)], the handler PPE requirements may be reduced or modified as specified in the WPS.

# **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 highwater mark. Do not contaminate water when disposing of equipment washwaters 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

Tank mix with *Bacillus thuringiensis* products (Bts) to enhance control.

VST-006330 EP is a biological insecticide containing the active ingredient GS-omega/kappa-Hxtx-Hv1a for use on ornamental plants, turf and edible crops against cabbage looper (*Tricoplusia ni*), Thysanoptera, Lepidopteron and Coleopteran pests. VST-006330 EP functions primarily as a central nervous inhibitor of target pests infesting labeled crops. In tank mixes with EPA-registered *Bacillus thuringiensis* products (Bts), VST-006330 EP is mixed with water and applied as a foliar spray with ground or aerial equipment equipped for conventional insecticide spraying.

VST-006330 EP tank mixes with Bts can be used in either the field or greenhouse.

#### **USE INSTRUCTIONS**

Thorough coverage of infested plant parts is necessary. VST-006330 EP does not have systemic activity. For some crops, directed drop nozzles by ground machine are required.

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

Repeat applications at 3-10 day intervals depending upon plant growth rate, insect activity, and other factors.

For hard-to-wet crops, consider using a spreader/sticker or an adjuvant that has been approved for targeted crop use to enhance the adhesion of VST-006330 EP to the crop. Examples of appropriate spreader/stickers or adjuvants are: (1) alkoxylated surfactants, 2) organic silicates, 3) vegetable oils, 4) methylated vegetable oils, 5) mineral oils, and/or 6) phospholipids)(crop oils and non-ionic surfactants).

VST-006330 EP 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**

USE RESTRICTION: Do not apply more than 10 lbs. VST-006330 EP per acre per year.

Apply VST-006330 EP tank mixes 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 VST-006330 EP 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 VST-006330 EP. Add the desired volume of VST-006330 EP to the mix tank and continue circulation. Maintain circulation while loading and spraying. Do not mix more VST-006330 EP than can be used in 24 hours.

### 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 VST-006330 EP 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. Follow the most restrictive of the labeling limitations and precautions of all products used in mixtures.

(VST-006330 EP is not compatible with strong oxidizers, such as chlorine, which can degrade the product.)

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 be 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 including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation systems. 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 VST-006330 EP in a mix tank. Fill tank  $\frac{1}{2}$  to  $\frac{3}{4}$  the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of VST-006330 EP, 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 VST-006330 EP into the irrigation water line so as to deliver the desired rate per acre. Inject the suspension of VST-

006330 EP with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. Any questions on calibration should be directed to your State Extension Service Specialists, to equipment manufacturers or other experts.

Do not combine VST-006330 EP with 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. VST-006330 EP has not been fully evaluated for compatibility with all adjuvants or surfactants. It is advisable to conduct a spray compatibility test if a mixture with adjuvants or surfactants is planned.

# GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in the mix tank during mixing and application to insure 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. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. 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. 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, 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.

Do not apply when wind speed favors drift, 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 ADVISORY INFORMATION

**GENERAL:** Avoiding spray drift at the application site is the responsibility of the applicator. 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. Note: This section is advisory in nature and does not supersede the mandatory label requirements.

**INFORMATION ON 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**: Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Pressure - Do not exceed the nozzle manufacturer's recommended 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. Number of nozzles - Use the minimum number of nozzles that provide uniform coverage. Nozzle Orientation - 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. Nozzle Type - 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. Use upwind swath displacement and apply only when wind speed is 3-10 mph as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a nospray zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.

**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.

**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:** 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, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

# APPLICATION RATES FOR <u>VST-006330 EP + BACILLUS THURINGIENSIS IN A TANK MIX</u> ON THE FOLLOWING CROPS:

# Pre-harvest Interval (PHI) = 0 days

# I. Vegetable and Cole Fruit Crops (Groups 1, 3, 4, 5, 6, 8, 9)

Cron	Insect Pest	Application Rate
Crop		0.2 – 1.5 lbs. VST-006330
Arrayana	Any lepidopteron insect pest on	
Arrighalog	the Bacillus thuringiensis tank	EP/acre when tank mixed with
Artichokes	mix partner label including:	labeled rates of EPA-registered
Arugula	Achema Sphinx Moth	Bacillus thuringiensis, subsp.
Asparagus	(hornworm)	kurstaki or Bacillus
Beans- including garden, dried,	Armyworm	thuringiensis, subsp. aizawi or
succulent, adzuki, fava, field,	Cabbage looper	other Bacillus thuringiensis
garbanzo, pinto, kidney, lentil,	Cherry Fruitworm	products used to control
lima, moonbeam, navy, runner,	Cranberry Fruitworm	lepidopterans
snap, teary, wax, yard long	Cross-stripped Cabbageworm	
Beets-including garden	Cutworm	
Bok Choy	Diamondback Moth	
Broccoli Broccoli Book	Grape Leafroller	
Broccoli Raab	Grapeberry moth	
Brussels Sprouts	Grapeleaf Skeletonizer	
Burdock	Green Cloverworm	
Cabbage	Gypsy Moth	
Canna	Helicoverpa zea	
Cardoni	Heliothis virescens	
Carrots	Hornworms	
Cassava	Imported Cabbage Worm	
Cauliflower	Looper	
Cavalo	Melonworm	
Celeriac	Melonworm	
Celery	Obliquebanded Leafroller	
Chayote root	Omnivorous Leafroller	
Chervil	Orange Tortix	
Chick peas	Podworm	
Chicory	Rindworm Complex	
China greens	Saltmarsh Caterpillar	
Chinese artichoke	Soybean Looper	
Chinese broccoli	Tobacco budworm	
Chinese cabbage (Napa)	Tomato Fruitworm	
Chinese mustard cabbage	Variegated Cutworm	
Chinese waxgourd	Velvetbean Caterpillar	
Chufa	Webworm	0.4 4   1/07 000000 FD/
Cocona	Any coleopteran insect pest on	0.1 – 1 lb. VST-006330 EP/acre
Collards	the Bacillus thuringiensis tank	when tank mixed with labeled
Corn salad	mix partner label including:	rates of EPA-registered
Cress	Asparagus Beetle	products containing Bacillus
Cucumber	Bean Leaf Beetle	thuringiensis, subsp. tenebrionis
Cucurbits including cantaloupe	Blister beetle	or other Bacillus thuringiensis
and watermelon	Cabbage flea beetle	products used to control
Dandelion dock	Carrot weevil	coleopterans.
Dasheen	Colorado potato beetle	

Dry bulb onions Eggplant flea beetle Edible burdock Flea beetle Edible chrysanthemum Golden Tortoise beetle Edible gourds Japanese Beetle Eggplant Melonworm Escarole Mexican Bean Beetle Endive Pale-stripped flea beetle Garlic Pepper Weevil Ginger Pickleworm Potato Flea Beetle Ginseng Green onions Spinach flea beetle Greens: Beets, China, Spotted Asparagus Beetle Dandelion. Mustard. Spotted cucumber beetle Strawberry rootworm Turnip, Rape Ground cherry Striped Asparagus beetle Horseradish Striped cucumber beetle Jerusalem artichoke Striped flea beetle Kale Sweet potato flea beetle Kohlrabi Western Stripped Cucumber Leeks beetle White grub (including European, Lentils Chafer larvae, May/June beetle Leren Lettuce: Head, Leaf, Romaine larvae, Japanese beetle larvae, Oriental beetle larvae Lupine Malanga Wireworm Melons: Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon, etc. Mizuna Mustard spinach Napa Okra Olives Onions Parsley **Parsnips** Peas-including garden, dried, succulent, black-eyed, chickpea, cowpea, crowder, edible-pod, English, field, green, pigeon, snow, sugar snap, Pepino Peppers-including bell, chili, cooking, pimento; sweet Potatoes **Pumpkins** Purslane Radicchio Radishes Rhubarb Rutabaga Salsify **Shallots** 

Skirret

Soybean foliage
Soybean
Spinach
Squash
Sugar beets
Sweet potatoes
Swiss chard
Tanier
Tomatillo
Tomatoes
Turmeric
Turnips
Turnip-rooted chervil
Turnip-rooted parsley
Watercress
Yam bean
Yams

# II. Field Crops

Crop	Insect Pest	Application Rate
Alfalfa, Hay and other forage Crops	Any lepidopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Alfalfa Caterpillar Armyworm Essex Skipper European Skipper Looper	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
Canola, rapeseed	Any lepidopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Looper Armyworm Heliothis virescens Helicoverpa zea	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	Any coleopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Flea beetle Wireworm	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans

Cotton	Any lepidopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Armyworm Budworm Bollworm Cabbage looper <i>Helicoverpa zea</i> Saltmarsh Caterpillar	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
Grain, cereal (Group 15) - Including: Barley, Corn (sweet and field), Popcorn, Rice, Sorghum, Wheat	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Armyworm European Corn Borer Headworm Looper	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	Any coleopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Corn flea beetle Corn rootworm -including Northern, Western, Southern, Mexican Corn Sap Beetle Grape colaspis Japanese Beetle Southern corn billbug Southern corn leaf beetle Sugarcane beetle White grub -including European, Chafer larvae, May/June beetle larvae, Japanese beetle larvae, Oriental beetle larvae White grub (including European, Chafer larvae, May/June beetle larvae, Japanese beetle larvae, Oriental beetle larvae, Oriental beetle larvae	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans
Hops	Any coleopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Armyworm Looper	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans
Safflower	Any lepidopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Armyworm Looper	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis,

	Saltmarsh Caterpillar	subsp. <i>aizawi</i> or other <i>Bacillus</i> thuringiensis products used to control lepidopterans
Soybean	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Armyworm Cabbage Looper Green Cloverworm Podworm Soybean Looper Velvetbean Caterpillar	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
Sunflower	Any lepidopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Head Moth Looper	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
Tobacco	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Cabbage looper Hornworm Looper Tobacco Budworm	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	Any coleopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Budworm Flea beetle Wireworms	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans

#### III. **Commercial Flowers and Ornamental Plants**

Crop	Insect Pest	Application Rate
Flowers: greenhouse and field Greenhouse vegetables	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Cabbage looper Heliothis virescens Helicoverpa zea	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	Any coleopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Mealybugs	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans

#### IV. Herbs (Group 19)

Crop	Insect Pest	Application Rate
Basil	Any lepidopteran insect pest on	0.2 - 1.5 lbs. VST-006330
Chive	the Bacillus thuringiensis tank	EP/acre when tank mixed with
Cilantro	mix partner label including:	labeled rates of EPA-registered
Dill	Armyworm	Bacillus thuringiensis, subsp.
Mint	Cabbage Looper	kurstaki or Bacillus thuringiensis,
Parsley	Looper	subsp. <i>aizawi</i> or other <i>Bacillus</i>
Rosemary	Saltmarsh Caterpillar	thuringiensis products used to
Sage		control lepidopterans
Thyme	Any coleopteran insect pest on	0.1 – 1 lb. VST-006330 EP/acre
	the Bacillus thuringiensis tank	when tank mixed with labeled
	mix partner label including:	rates of EPA-registered products
	Wireworm	containing Bacillus thuringiensis,
		subsp. tenebrionis or other
		Bacillus thuringiensis products
		used to control coleopterans

#### Tree, Bush and Vine Crops ٧.

Crop	Insect Pest	Application Rate
Bushberry and Caneberry (Group 13-07) - Including: Blackberry, Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lignonberry, Loganberry, Raspberry Salal, Strawberry  Sunberry	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Achema Sphinx Moth (hornworm) Armyworm Cherry Fruitworm Cranberry Fruitworm Cutworm Grape Leafroller Grapeberry moth Grapeleaf Skeletonizer Gypsy Moth Looper Melonworm Obliquebanded Leafroller Orange Tortix Saltmarsh Caterpillar Tobacco budworm	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	Any coleopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Flea Beetle Japanese Beetle Pepper Weevil Sap Beetles Strawberry Rootworm White grub -including European, Chafer larvae, May/June beetle	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans

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	larvae, Japanese beetle larvae, Oriental beetle larvae	
Citrus (Group 10) - Including: Calamondin, Citrus citron, citrus hybrids (including chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange, Satsuma mandarin, White sapote	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Citrus Cutworm Fruitleaf Roller Orangedog	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	Any coleopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Citrus Root weevil (larval complex)	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans
Climbing vines (Group 13-07) - Including: Grapes, Gooseberry, Kiwifruit, Maypop, Schisandra berry,	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Achema Sphinx Moth (hornworm) Armyworm Cherry Fruitworm Cranberry Fruitworm Cutworm Grape Leafroller Grapeberry moth Grapeleaf Skeletonizer Gypsy Moth Looper Melonworm Obliquebanded Leafroller Omnivorous Leafroller Orange Tortix Saltmarsh Caterpillar Tobacco budworm	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	Any coleopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Grape cane girdler Mealybug-including Grape, Obscure, Vine Rose Chafer Japanese Beetle	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans

Low growing berries (Group 13- 07) - Including: Bearberry, Bilberry, Lowbush Blueberry, Cloudberry, Cranberry, Lignonberry, Muntries, Partridgeberry	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Achema Sphinx Moth (hornworm) Armyworm Cherry Fruitworm Cranberry Fruitworm Cutworm Grape Leafroller Grapeberry moth Grapeleaf Skeletonizer Gypsy Moth Looper Melonworm Obliquebanded Leafroller Omnivorous Leafroller Orange Tortix Saltmarsh Caterpillar Tobacco budworm Any coleopteran insect pest on	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	the Bacillus thuringiensis tank mix partner label including: Cranberry Tipworm Fireworm Flea beetle Sap Beetle White grub -including European, Chafer larvae, May/June beetle larvae, Japanese beetle larvae, Oriental beetle larvae	when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans
Pineapple	Any lepidopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Gummosos-Batrachedra Comosae (Hodges) Thecla-Thecala Basilides (Geyr)	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
Pome fruit (Group 11-10) - Including: Apple, Azarole, Crabapple, Loquat, Mayhaw, Hook, Medlar, Pear, Quince, Tejocote	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Armyworm Cankerworm Codling Moth Cutworm Filbert Leafroller Fruittree Leafroller Gypsy Moth Obliquebanded Leafroller Oriental Fruit Moth Redbanded Leafroller	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans

	Tufted Apple Budmoth Twig Borer Variegated Leafroller Walnut Caterpillar Any coleopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Mealybug Japanese Beetle Plum Curculio	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans
Pomegranate	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Armyworm Cankerworm Codling Moth Cutworm Filbert Leafroller Fruittree Leafroller Gypsy Moth Obliquebanded Leafroller Oriental Fruit Moth Redbanded Leafroller Tufted Apple Budmoth Twig Borer Variegated Leafroller Walnut Caterpillar	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
Poplar/Cottonwood	Any coleopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Cottonwood leaf beetle	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans
Stone Fruit (Group 12) - Including: Apricot, Cherry, Nectarine, Peach, Plum, Plumcot, Prune	Any lepidopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Redhumped Caterpillar Tent caterpillar Omnivorous Leafroller Fall webworm	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	Any coleopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Plum Curculio Japanese Beetle	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> , subsp. <i>tenebrionis</i>

	Rose Chafer	or other <i>Bacillus thuringiensis</i> products used to control coleopterans
Tree nuts (Group 14) - Including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia Nut, Pecan, Pistachio, Walnut	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Armyworm Cankerworm Codling Moth Cutworm Filbert Leafroller Gypsy Moth Obliquebanded Leafroller Oriental Fruit moth Redbanded Leafroller Tufted Apple Budworm Twig borer Variegated Leafroller Walnut Caterpillar	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans
	Any coleopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Pecan Weevil Gill's Mealybug	0.1 – 1 lb. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered products containing <i>Bacillus thuringiensis</i> subsp. <i>tenebrionis</i> or other <i>Bacillus thuringiensis</i> products used to control coleopterans
Tropical Fruit	Any lepidopteran insect pest on the <i>Bacillus thuringiensis</i> tank mix partner label including: Hornworm Leafroller Looper Omnivorous Looper	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA-registered Bacillus thuringiensis, subsp. kurstaki or Bacillus thuringiensis, subsp. aizawi or other Bacillus thuringiensis products used to control lepidopterans

#### VI. **Commercial Flowers and Ornamental Plants**

Crop	Insect Pest	Application Rate
Bedding Plants	Any lepidopteran insect pest on	0.2 - 1.5 lbs. VST-006330
Flowers: greenhouse and field	the Bacillus thuringiensis tank	EP/acre when tank mixed with
Greenhouse ornamentals	mix partner label including:	labeled rates of EPA-registered
Greenhouse vegetables	Armyworm	Bacillus thuringiensis, subsp.
Container stock	Azalea caterpillar	kurstaki or Bacillus
	Azalea moth	thuringiensis, subsp. aizawi or
	Beet armyworm	other Bacillus thuringiensis
	Diamondback moth	products used to control
	Ello moth (hornworm)	lepidopterans
	European grapevine moth	
	Florida fern caterpillar	
	lo moth	
	Loopers	

Oleander moth Omnivorous leafroller	
Omnivorous looper Tobacco budworm	

# VII. Forest, Shade Tree and Nursery Stock

Crop	Insect Pest	Application Rate
Deciduous	Armyworm	0.2 - 1.5 lbs. VST-006330
Forest	Any lepidopteran insect pest on	EP/acre when tank mixed with
Shade Trees	the Bacillus thuringiensis tank	labeled rates of EPA-registered
Nursery Trees	mix partner label including:	Bacillus thuringiensis, subsp.
Ornamental Trees	Bagworm	kurstaki or Bacillus
Confers-including Christmas	Blackheaded budworm	thuringiensis, subsp. aizawi or
trees	Browntail moth	other Bacillus thuringiensis
	California oakworm	products used to control
	Cottonwood leaf beetle	lepidopterans
	Douglas fir tussock moth	
	Elm spanworm	
	Fall webworm	
	Fruittree leafroller	
	Greenstriped mapleworm	
	Gypsy moth	
	Heliothis	
	Hemlock looper	
	Jack pine budworm	
	Loopers	
	Mimosa webworm	
	Pine butterfly	
	Pine tip moths	
	Redhumped caterpillar	
	Saddleback caterpillar	
	Saddle prominent caterpillar	
	Spring and fall cankerworm	
	Spruce budworm	
	Tent caterpillar	
	Tortix	
	Tussock moth	
	Viburnam beetle	
	Western tussock moth	

# VIII. Turf

Crop	Insect Pest	Application Rate
Turf - including turf grown for seed or sod	Any lepidopteran insect pest on the Bacillus thuringiensis tank mix partner label including: Armyworm Cutworms Sod webworm Tropical sod webworm	0.2 – 1.5 lbs. VST-006330 EP/acre when tank mixed with labeled rates of EPA- registered <i>Bacillus</i> thuringiensis, subsp. kurstaki or <i>Bacillus</i> thuringiensis, subsp. aizawi or other <i>Bacillus</i>

thuringiensis products use to control lepidopterans
to control lepidopterans

# STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in original container at less than 40°F for up to 6 months after date of manufacture. Do not allow product to freeze. Keep container closed and away from moisture when not in use.

**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 of by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances. If burned, stay out of smoke.

#### TERMS AND CONDITIONS OF USE

If the terms of the following WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES are not acceptable, return the unopened package at once to Vestaron Corporation. Otherwise, use of the product will constitute acceptance of the terms under WARRANTY DISCLAIMER, INHERENT RISKS OF USE and LIMITATION OF REMEDIES.

#### WARRANTY DISCLAIMER

TO THE EXTENT PERMITTED BY APPLICABLE LAW, VESTARON CORPORATION MAKES NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE CONCERNING USE OF THE PRODUCT.

# **INHERENT RISKS OF USE**

It is impossible to eliminate all risks associated with use of the product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use, storage or handling of the product not in strict accordance with the accompanying label instructions, abnormal conditions, presence of other materials, or other factors, all of which are beyond the control of Vestaron Corporation. All such risks shall be assumed by the user.

## **LIMITATION OF REMEDIES**

To the extent permitted by law, the exclusive remedy for losses or damages resulting from the product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to replacement of the amount of product used. To the extent permitted by law, Vestaron Corporation disclaims any liability for incidental, consequential, exemplary, special or indirect damages resulting from the use, storage or handling of the product.

The terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES [cannot be varied by any written or verbal statements or agreements. No employee or other agent of Vestaron Corporation is authorized to vary or exceed the terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES in any manner/may be varied only by agreement in writing signed by a duly authorized representative of Vestaron Corporation].

# Sublabel C: Home & Garden Uses

GROUP UN INSECTICIDE

# **VST-006330 EP**

# **Biological Insecticide**

 Active Ingredient:
 GS-omega/kappa-Hxtx-Hv1a
 20.00%

 Other Ingredients:
 80.00%

 Total:
 100.00%

# KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID
If in eyes	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> </ul>
	Call a poison control center or doctor for treatment advice.
lf on skin	Take off contaminated clothing.
or 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 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.: 88847-2 EPA Est. No.: XXXXX-XX-XXX

Net Contents: XX (Batch)(Lot) No: XXXX Date of Manufacture:

Manufactured by: Vestaron Corporation

4717 Campus Drive, Ste. 1200

Kalamazoo, MI 49008

# **PRECAUTIONARY STATEMENTS**

**Hazards to humans and domestic animals - CAUTION.** Causes moderate eye and skin irritation. Avoid contact with eyes, skin or clothing. Wear goggles or safety glasses, long sleeved shirt and long pants, gloves and shoes plus socks. 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.

**Environmental Hazards:** To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

# **DIRECTIONS FOR USE**

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

# **HOW IT WORKS**

VST-006330 EP is a highly selective insecticide for use against thrips, caterpillars and beetles. Close scouting and early attention to infestations is highly recommended. Proper timing of application targeting newly hatched larvae is important for optimal results.

# **HOW TO APPLY**

Do not apply more than 10 lbs. of VST-006339 EP per acre per year.

Mix VST-006330 EP with water and apply as a foliar spray with hand-held equipment Thorough coverage of foliage is necessary. VST-006330 EP does not have systemic activity.

- Add 2 teaspoon 4 tablespoons (0.3-2 ounces) of VST-006330 EP for each 1 gallon of water in a tank sprayer. Agitate prior to use.
- Use a coarse spray pattern to reduce drift to desirable plants.
- Spray to thoroughly wet foliage.

#### WHERE TO APPLY

## Apply to the following types home and garden plants:

Garden plants (including):

Asparagus, beets, broccoli, Brussels sprouts, cabbage, cantaloupe, carrots, cauliflower, celery, collards, cucumbers, edible-podded legume vegetables including: snap bean, wax bean, yard long bean, jack bean, edible-pod pea, snow pea, sugar snap pea; dried shelled beans and peas including: field bean, kidney bean, lima bean (dry), navy bean, pinto bean, adzuki bean, blackeyed pea, cowpea, mung bean, southern pea, lentil (dry); eggplant, herbs, kale, lettuce, melons, mustard greens, pepper, parsnip, potato, radish, rutabaga, salsify, spinach, squash (winter and summer), sweet potato, tomatoes, turnip greens, turnips, watercress, and watermelon.

Ornamentals-including annuals and perennials

# For the following caterpillar pests:

Armyworm Diamondback Moth Melonworm Cabbage looper Imported Cabbage Worm Soybean Looper

Cabbageworm Looper

### For the following beetle pests:

Carrot weevil Pepper Weevil Western Stripped Cucumber

Colorado potato beetle Pickleworm beetle
Japanese beetle Potato Flea Beetle White grub\*

Melonworm Spotted cucumber beetle

\*White grub includes European, Chafer larvae, May/June beetle larvae, Japanese beetle larvae, Oriental beetle larvae.

# STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in original container at less than 40° F for up to 6 months after date of manufacture. Do not allow product to freeze. Keep container closed and away from moisture when not in use.

**Pesticide Disposal and Container Handling:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash and 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.

# TERMS AND CONDITIONS OF USE

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### LIMITATION OF REMEDIES

To the extent permitted by law, the exclusive remedy for losses or damages resulting from the product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to replacement of the amount of product used. To the extent permitted by law, Vestaron Corporation disclaims any liability for incidental, consequential, exemplary, special or indirect damages resulting from the use, storage or handling of the product.

The terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES [cannot be varied by any written or verbal statements or agreements. No employee or other agent of Vestaron Corporation is authorized to vary or exceed the terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES in any manner/may be varied only by agreement in writing signed by a duly authorized representative of Vestaron Corporation].