



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:

88847-6

Date of Issuance:

8/16/2017

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

VST-006340 LC

Name and Address of Registrant (include ZIP Code):

Vestaron Corporation  
 4717 Campus Drive, Suite 1200  
 Kalamazoo, MI 49008

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

Jeannine Kausch, Product Manager 92  
 Microbial Pesticides Branch  
 Biopesticides and Pollution Prevention Division (7511P)  
 Office of Pesticide Programs

Date:

8/16/2017

2. Submit storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to the EPA.
3. Make the following labeling change before you release this product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 88847-6."
4. 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 06/07/2017

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

Sincerely,



Jeannine Kausch, Product Manager 92  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

# VST-006340 LC

**MASTER LABEL, containing:**

**Sublabel A: Greenhouse Use**

**Alternate Brand Names:**

“Spear™ T Liquid Concentrate”  
“Spear™ T Low Volume”

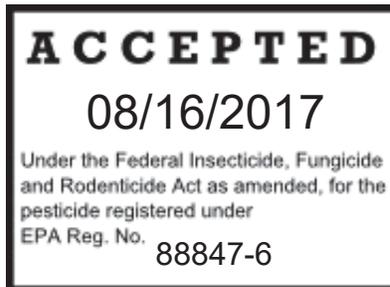
**Active Ingredient:** GS-omega/kappa-Hxtx-Hv1a ..... 2.0%  
**Other Ingredients:** ..... 98.0%  
**Total:** ..... 100.0%

**EPA Reg. No.:** 88847-A  
**Net Contents:** XX  
**(Batch)(Lot) No:** XXXX

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

**Manufactured by:** Vestaron Corporation  
4717 Campus Drive, Ste. 1200  
Kalamazoo, MI 49008

**Note:** Text in curly brackets indicates optional text.



**Sublabel A: Greenhouse Use**

**GROUP UN INSECTICIDE**

**VST-006340 LC**

**Biological Insecticide**

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

**Active Ingredient:** GS-omega/kappa-Hctx-Hv1a ..... 2.0%  
**Other Ingredients:** ..... 98.0%  
**Total:** ..... 100.0%

(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**

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <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> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
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-A  
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## PRECAUTIONARY STATEMENTS

**Hazards to humans and domestic animals - CAUTION.** Causes moderate eye and skin irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear and waterproof 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
- Protective eyewear

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.

### **USER SAFETY RECOMMENDATIONS**

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards:** For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

## 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 12 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
- Protective eyewear

## PRODUCT INFORMATION

VST-006340 LC is a biological insecticide containing the active ingredient GS-omega/kappa-Hxtx-Hv1a for use on ornamental plants, turf and edible crops against thrips, two-spotted spider mites, whiteflies, and broad mites. VST-006340 LC functions primarily as a central nervous system inhibitor of target pests infesting labeled crops. VST-006340 LC is mixed with water and applied as a foliar spray {with ground equipment equipped for conventional insecticide spraying}.

VST-006340 LC {can be used in} {is designed for} greenhouse {use}.

## USE INSTRUCTIONS

VST-006340 LC 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-006340 LC is not effective on the egg stage.}

Thorough coverage of infested plant parts is necessary. VST-006340 LC does not have systemic activity.

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-006340 LC to the crop. Examples of appropriate spreader/stickers or adjuvants are: 1) vegetable oils and 2) crop oils.

VST-006340 LC 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-006340 LC is an important tool in sound insect management whenever insecticide use is necessary. Apply VST-006340 LC 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-006340 LC can be applied up to and including the day of harvest.

**APPLICATION INSTRUCTIONS**

Do not apply this product through any type of irrigation system.

**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 delivering 40 gallons per acre or less volume. Smaller droplet sizes are most effective. VST-006340 LC is a contact kill material so direct contact with the pest is essential for optimum performance. Mix 1 part (e.g. 1 quart {1 liter}) of VST-006340 LC (2.0% active ingredient) with 3 parts (e.g. 3 quarts {3 liters}) of water to make 4 quarts {4 liters} of 0.5% active ingredient spray solution. Apply 1 quart {1 liter} of spray solution per 1000 square feet of greenhouse bench space. Spray until wet (glisten), not run-off. Turn off exhaust fans and close vents during application. {Begin applications when pests reach threshold levels.}

**Tank mixing:**

Do not combine VST-006340 LC 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, and non-injurious under your use conditions. Follow the most restrictive of the labeling limitations and precautions of all products used in mixtures.

{VST-006340 LC is not compatible with strong oxidizers, such as chlorine, that 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 remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

**USE VST-006340 LC ON THE FOLLOWING CROPS:**

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

**1. Greenhouse Vegetables**

<b>Crop</b>	<b>Insect Pest</b>
Cucumber (all varieties) Peppers (all varieties) Tomatoes (all varieties) Green Beans Leafy Greens (all types) Lettuce Spinach	Thrips Two-Spotted Spider Mite Whiteflies Broad Mites

**2. Greenhouse Flowers and Ornamental Plants**

<b>Crop</b>	<b>Insect Pest</b>
Bedding Plants Ornamental Plants Ornamental Flowers Cut Flowers Container Stock	Thrips Two-Spotted Spider Mite Whiteflies Broad Mites

**3. Greenhouse Herbs and Mint**

<b>Crop</b>	<b>Insect Pest</b>
Basil Chive Cilantro Dill Mint Parsley Rosemary Sage Thyme	Thrips Two-Spotted Spider Mite Whiteflies

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in original container at room temperature. 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 or by industry).

### Container Handling:

*For plastic containers less than or equal to 5 gallons:* Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration.

*For plastic containers greater than 5 gallons:* Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten enclosures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration.

## 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 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 applicable 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 applicable 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. The terms may be varied only by agreement in writing signed by a duly authorized representative of Vestaron Corporation].**