



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

October 4, 2017

Olav Messerschmidt  
Vive Crop Protection, Inc.  
700 Bay Street., Suite 1100  
Toronto, Ontario, Canada M5G 1Z6

Subject: Label Amendment – Add Chemigation Instructions  
Product Name: VCP-03 1.75 SC INSECTICIDE  
EPA Registration Number: 89118-2  
Application Date: May 4, 2017  
Decision Number: 529448

Dear Mr. Messerschmidt:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing 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 copy of the final printed labeling before you release the 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 the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements 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 Agency 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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Maggie Rudick at 703-347-0257 or by email at [rudick.maggie@epa.gov](mailto:rudick.maggie@epa.gov).

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Sincerely,

A handwritten signature in black ink, appearing to read "Elizabeth Fertich". The signature is cursive and somewhat stylized, with the first name being more prominent.

Elizabeth Fertich  
Acting Product Manager 03  
Invertebrate & Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

NOTE: {Information in {braces} is informational for the reviewer}  
[Bracketed text is optional/interchangeable]

GROUP **3** INSECTICIDE

**RESTRICTED USE PESTICIDE**  
TOXIC TO FISH AND AQUATIC ORGANISMS  
For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the Certified Applicators certification

# VCP-03

## 1.75 SC Insecticide

[Alternate Brand Name: Bifender™ FC Insecticide]

VCP-03 is a versatile, broad-spectrum insecticide that can be mixed directly with liquid fertilizers for control of insect and mite pests on agricultural crops. It can be applied as a PPI, at plant, PRE, or as a foliar application.

Active Ingredient:	By Wt.
Bifenthrin:(2 methyl [1,1'-biphenyl] 3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*.....	19.3%
Other Ingredients: .....	80.7%
	100.0%

\*Cis isomers 97% minimum, trans isomers 3% maximum.  
This product contains 1.75 pounds active ingredient per gallon.



### KEEP OUT OF REACH OF CHILDREN

### WARNING

AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

This label must be in the possession of the user at the time of application.  
See [back panel][inside booklet] for additional precautionary information.

EPA Reg. No. 89118-2                      EPA Est. XXX-YY-Z  
Net Contents: 1, 2½, 5, 275, \_\_\_\_\_ Gallons



Vive Crop Protection, Inc.  
700 Bay St., Suite 1100  
Toronto, ON M5G 1Z6  
CANADA  
1-416-260-8889

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Warning. May be fatal if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. Wear protective eyewear.**

FIRST AID
<b>If swallowed:</b> <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</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>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.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>Note to physician:</b> <p>This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.</p>
<b>EMERGENCY INFORMATION</b> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>In the event of a medical or chemical emergency contact Chemtel Inc. in North America at 1-800-255-3924 or worldwide international at +1-813-248-0585.</p>

#### Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. If you would like more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash thoroughly with soap and water after handling.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging in the treatment area.

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

## DIRECTIONS FOR USE

### Restricted Use Pesticide

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### 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 intervals. 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
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

VCP-03 contains the active ingredient bifenthrin which is a GROUP 3 INSECTICIDE and is effective against a variety of insect and mite pests.

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities or universities for details.

To delay insecticide (or miticide) resistance consider:

- Avoiding the consecutive use of VCP-03 or other GROUP 3 insecticides/miticides that have a similar target site of action, on the same insect/mite species.
- Using tank-mixtures or premixes with insecticides/miticides from a different target site of action GROUP as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide/miticide use on a comprehensive IPM program.
- Monitoring treated insect/mite populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide/miticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.

The non-GROUP 3 insecticide(s) that is used to alternate or mix with a GROUP 3 insecticide must be labeled for the crop and, to be effective as a resistance management strategy, must also be labeled for the target insect pest.

Monitor the efficacy of all insecticides used in your insect pest management program and record other factors that may influence insecticide performance and insect pest population growth. If VCP-03 or another insecticide appears to be less effective against an insect pest that it previously controlled, contact your local extension specialist or certified crop advisor for further investigation.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## PRODUCT USE INSTRUCTIONS

VCP-03 is a versatile, broad-spectrum insecticide and miticide containing the active ingredient bifenthrin in an optimized SC formulation that is compatible with liquid fertilizers. VCP-03 provides activity against many important crop insect pests and can be used alternated with other insecticides with a different mode of action or tank-mixed with such insecticides and other crop protection products.

Bifenthrin, the active ingredient in VCP-03, belongs to the pyrethroid class of insecticides. Bifenthrin is a neurotoxin which causes exposed insects to develop hyperexcitation and tremors, followed by paralysis and death. Pyrethroids are classified as GROUP 3 INSECTICIDES.

*{NOTE TO REVIEWER - The Chemigation Use Directions will appear on the final printed commercial labels when the label includes crops which allow for the application by means of chemigation. If the final printed commercial label only contains crops which do not allow for the application by means of chemigation, the statement "Do not apply this product through any type of irrigation system" will be used instead of the Chemigation Use Directions.}*

## CHEMIGATION USE DIRECTIONS

Apply this product only through sprinklers 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 system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

For Low Energy Precision Application (LEPA) irrigation of a minimum of 0.75 inch of water per acre is recommended. Where non-emulsified oils are used as the diluent, 1 to 2 pints per acre is recommended.

Results from utilizing chemigation have been variable and depend upon the set up and calibration of equipment. Crop

injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialists, equipment manufacturers or other experts for consultation on the suitability of the equipment set up to obtain effective control of the target insect pests.

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. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain, appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

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

The pesticide injection pipeline must also 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 motor 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. VCP-03 should be applied continuously for the duration of the water application. VCP-03 should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. A diluent test should be conducted to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

## **BUFFER ZONES**

### **Vegetative Buffer Zones**

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses: Natural Resources Conservation Services.

USDA, N RCS.2000. Fort Worth, Texas. (21pp.)

[http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs143\\_023819.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs143_023819.pdf)

**Buffer Zone for Ground Application (groundboom, [chemigation,] or airblast)** — Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

**Buffer Zone for ULV Aerial Application** - Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

**Buffer Zone for Non-ULV Aerial Application** — Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

In New York State this product may not be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

#### **INTEGRATED PEST MANAGEMENT (IPM)**

VCP-03 should be used as one component in an integrated pest management program including cultural practices that reduce insect pest pressure. Consult your local extension specialist or certified crop advisor for local best practices to manage insect pests.

#### **SPRAY DRIFT REQUIREMENTS**

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

##### **Wind Direction and Speed**

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

##### **Temperature Inversion**

Do not make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

##### **Droplet Size**

Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, use a coarser droplet size.

##### **Additional Requirements for Aerial Applications**

Mount the spray boom on the aircraft so as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length to be used must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

#### **APPLICATION AND MIXING INSTRUCTIONS**

Shake well before use.

VCP-03 insecticide and miticide is designed for pre-plant incorporated (PPI), at-plant, pre-emergence (PRE), banded, broadcast, transplant-water drench, and foliar spray applications, and must be diluted with water and/or liquid fertilizer before application. Refer to Specific Use Directions for Crop Plants for pest control or suppression instructions.

Do not use strainer (nozzle screens) with a mesh designation greater than 50.

Make sure that application equipment is thoroughly cleaned and properly calibrated prior to application and thoroughly cleaned after application.

VCP-03 can be mixed directly with water and/or liquid starter or popup fertilizer. Follow liquid fertilizer recommendations regarding seed safety and use guidelines. Conduct a preliminary jar test using the appropriate ratio of fertilizer and VCP-03



(see instructions below). If mixture compatibility is not acceptable, repeat the jar test with an equivalent volume of water added to the liquid fertilizer prior to adding VCP-03. Do not exceed dilution specified by mixing instructions. For best results, use immediately after mixing. Do not allow a tank mixture to set overnight. Do not store mixtures. Make sure that application equipment is thoroughly cleaned and properly calibrated prior to application and thoroughly cleaned after application.

- Use spray nozzles appropriate for the crop to provide full coverage and uniform distribution of the spray mixture
- Use screens where appropriate to protect sprayer equipment and prevent clogging
- Screens used to protect pump on the suction side to be no finer than 16-mesh
- Do not fit the recirculation line of the spray system with a screen
- Screens used on the spray nozzles are to be no finer than 50-mesh
- The spray system pump is to have sufficient capacity to deliver 35-40 psi of pressure to the nozzles, and recirculate at least 10% of the tank volume per minute to maintain a uniform mixture
- Agitate the spray mixture with a jet agitator or liquid sparge tube
- Do not use air sparge

Consult manufacturers of spray equipment for more information on sprayer use, calibration, and recommendations. Consult state agricultural extension recommendations for local directions and spray schedules.

Cultivation within 10 feet of a water body is prohibited to allow for the growth of a vegetated filter strip.

Choose the rate of application within the label ranges for the crop being treated based on expected insect pest pressure. This can be determined by history and scouting of the field and whether weather conditions are expected to be favorable. Use lower rates when insect pest pressure is expected to be light and use higher rates when insect pest pressure is expected to be heavy. Application rates are generally higher in arid climates.

Unless otherwise directed by registered supplemental labeling, follow the Directions for Use in each crop group section.

## **MIXING INSTRUCTIONS**

### **Solo VCP-03 Application**

- Determine the required volume of water or liquid fertilizer for application and fill the spray/mixing tank with  $\frac{1}{2}$  -  $\frac{3}{4}$  of this volume
- Begin agitation of the tank and add the required volume of VCP-03 for the insecticide application
- Continue agitation while adding the remaining  $\frac{1}{2}$  -  $\frac{3}{4}$  volume of water or liquid fertilizer to complete the spray mixture
- Apply the mixture after the contents of the tank are completely dispersed
- Maintain agitation of the spray tank until all of the spray mixture has been applied.
- Thoroughly rinse spray tank with water and dispose of the rinse water by spraying onto a section of the already treated crop

Do not prepare more spray mixture than is required for the treatment. Do not allow a mixture to set overnight. If the mixture settles, agitate the mixture and assess to ensure thorough re-mixing prior to application. Do not store spray mixtures.

### **VCP-03 Tank Mixture Application**

VCP-03 may be applied in tank mixtures with adjuvants, micronutrients, and other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. Do not combine VCP-03 in the spray tank with pesticides, adjuvants or fertilizers unless compatibility charts or your own prior use has shown that the combination is physically compatible, and the combination is effective and non-injurious to the target crop under your use conditions.

When an adjuvant is used, it is recommended to use an adjuvant that meets the standards of the Chemical Producers and

Distributors Association (CPDA) adjuvant certification.

**Caution: Test potential mixing partners, including adjuvants, for mixing compatibility using a standard jar test or other similar method and for crop safety prior to use on a crop. Incompatibilities may exist with some methylated seed oils, crop oil concentrates, or silicone-based adjuvants; conduct jar tests before using.**

*The following jar test procedure is recommended to evaluate compatibility: Following any product specific instructions for order of addition, pour the recommended proportions of the products into a suitable container, mix thoroughly and allow to stand at least twenty (20) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible.*

Do not prepare more spray mixture than is required for the treatment. For best results, use immediately after mixing. Do not allow a mixture to set overnight. If the mixture settles, agitate the mixture and assess to ensure thorough re-mixing prior to application. Do not store spray mixtures.

#### **INSTRUCTIONS FOR PPI AND PPE APPLICATIONS**

**PPI Treatments:** PPI herbicides can be tank mixed with VCP-03. Test for compatibility with jar tests or similar methods before use. Follow all use rate recommendations. Incorporate VCP-03 close to seed planting depth up to a max depth of 3 inches.

**PRE Treatments:** PRE herbicides can be tank mixed with VCP-03. Test for compatibility with jar tests or similar methods before use and follow all use rate recommendations.

#### **INSTRUCTIONS FOR AT PLANT AND BANDED APPLICATIONS**

VCP-03 can be applied as a soil-directed application at plant as an in-furrow or T-band application or as an early season banded application over the plant row for control of below ground and surface feeding insect pests. Refer to the use directions for specific crops to determine if such applications are labeled for a given crop and, if so, for which insect pests.

Generally, at plant in-furrow applications are more effective against below ground feeding insects, whereas T-band and broadcast applications may be more effective against surface feeding insect pests. Check with your local extension specialist or certified crop advisor for specific advice on best local practices for insect control.

#### **At Plant Application Instructions**

Use 3-20 gallons of water or liquid fertilizer per acre for in-furrow or T-band applications.

Direct the 5 -7 inch spray into the furrow just before the seed is covered, unless instructed otherwise under the specific crop instructions.

Use the higher rate if conditions are expected to be favorable for insect pests or mites, or if minimum or no-till practices are being followed.

**At Plant In-Furrow Application Rates  
Table Provides fl. oz. Product per Acre**

Row Feet Per Acre	Crop Row Spacing (inches)	fl. oz. Bifender FC per Acre				
		0.17 fl. oz. Bifender FC per 1000 row feet	0.34 fl. oz. Bifender FC per 1000 row feet	0.42 fl. oz. Bifender FC per 1000 row feet	0.67 fl. oz. Bifender FC per 1000 row feet	0.84 fl. oz. Bifender FC per 1000 row feet
23760	22	4.0	8.1	10.0	15.9	20.0
21780	24	3.7	7.4	9.1	14.6	18.3
20105	26	3.4	6.8	8.4	13.5	16.9
18669	28	3.2	6.3	7.8	12.5	15.7
17424	30	3.0	5.9	7.3	11.7	14.6
16335	32	2.8	5.6	6.9	10.9	13.7
15374	34	2.6	5.2	6.5	10.3	12.9
14520	36	2.5	4.9	6.1	9.7	12.2
13756	38	2.3	4.7	5.8	9.2	11.6
13068	40	2.2	4.4	5.5	8.8	11.0

**INSTRUCTIONS FOR FOLIAR APPLICATIONS**

VCP-03 can be applied as a spray to above ground plant parts such as flowers, foliage and fruit. Application in a tank mixture with an adjuvant is recommended to get best wetting. Refer to the use directions for specific crops to determine if such applications are labeled for a given crop and, if so, for which plant parts and which insect pests.

Use higher label rates if insect pest pressure is high, controlling for mites, and/or conditions are expected to be favorable for pest population growth.

**Do not apply when conditions favor drift from the area intended for treatment;** follow instructions under the Spray Drift section.

**Ground Applications**

Apply with sufficient water or liquid fertilizer in a manner that provides thorough and uniform coverage to obtain good pest control. Follow spray volume recommendations given under specific crops.

**Aerial Applications**

Apply with sufficient water or liquid fertilizer in a manner that provides uniform coverage for good pest control. Follow spray volume recommendations given under specific crops. Dense canopies may limit coverage on lower leaves from aerial applications reducing insect pest control on those leaves.

**ROTATIONAL CROPS**

Crops for which bifenthrin tolerances exist may be rotated at any time. All other crops may be rotated 30 days following the final application of bifenthrin.

## SPECIFIC USE DIRECTIONS FOR CROP PLANTS

### ARTICHOKE (FOLIAR)

PESTS	USE RATES
	fl. oz. product/acre (lb. a.i./acre)
Artichoke Plume Moth	7.4
Cribrate Weevil	(0.10)

#### Product Instructions:

Apply VCP-03 in 75 or more gallons of spray per acre by ground equipment, or 10 or more gallons of spray per acre by aircraft to achieve thorough coverage.

#### Specific Use Restrictions:

Do not make applications less than 15 days apart.

Do not apply more than 0.5 pound active ingredient per acre per season.

Do not apply within 5 days of harvest.

### BEANS AND PEAS, DRIED (AT PLANT, BANDED)

Dried cultivars of: Bean (*Lupinus*); Bean (*Phaseolus*), Field bean, Kidney bean, Lima bean (dry), Navy bean, Pinto bean, Tepary bean; Bean (*Vigna*), Adzuki bean, Blackeyed pea, Catjang, Cowpea, Crowder pea, Moth bean, Mung bean, Rice bean, Southern pea, Urd bean; Broad bean (dry), Chickpea, Guar, Lablab bean, Lentil; Pea (*Pisum*), Field pea, Pigeon pea

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Corn Rootworm (larvae)	5.9 – 7.4 (0.08 – 0.1)	0.34 – 0.42 (0.0046-0.0057)
Grape Colapsis Grubs Root Maggot Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Cutworm spp. <sup>1</sup> True Armyworm <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

#### Product Instructions:

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>1</sup>Army cutworm, Cutworm spp., True armyworm, or Armyworm spp.: Apply broadcast to soil surface.

#### Specific Use Restrictions:

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.2 pound active ingredient to peas, or 0.3 pound active ingredient to beans per acre per season including at-plant plus foliar application of other bifenthrin products.

**BEANS AND PEAS, SUCCULENT (AT PLANT, BANDED)**

Pea (*Pisum* spp.): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea, Pigeon pea; Bean (*Phaseolus* spp.): Broadbean (succulent), Lima bean (green), Runner bean, Snap bean, Wax bean; Bean, (*Vigna* spp.): Asparagus bean, Blackeyed pea, Chinese longbean, Cowpea, Moth bean, Southern pea, Yardlong bean, Jackbean, Soybean (immature seed), Sword bean

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Rootworm larvae	5.9 – 7.4 (0.08 – 0.1)	0.34 - 0.42 (0.0046-0.0057)
Grape Colapsis Grubs Root Maggot Seedcorn Maggot Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Cutworm spp. <sup>1</sup> True Armyworm <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>1</sup>Army cutworm, Cutworm spp., True armyworm, Armyworm spp.: Apply broadcast to soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**BEANS AND PEAS, SUCCULENT (FOLIAR)**

Pea (*Pisum* spp.): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea, Pigeon pea; Bean (*Phaseolus* spp.): Broadbean (succulent), Lima bean (green), Runner bean, Snap bean, Wax bean; Bean, (*Vigna* spp.): Asparagus bean, Blackeyed pea, Chinese longbean, Cowpea, Moth bean, Southern pea, Yardlong bean, Jackbean, Soybean (immature seed), Sword bean

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Aster Leafhoppers Flea Beetle Grasshoppers Leafhoppers	1.8 – 7.4 (0.025-0.10)
Alfalfa Caterpillar Aphids Bean Leaf Beetle Beet Armyworm Cloverworm Corn Earworm Corn Rootworm (Adult)	2.4 – 7.4 (0.033-0.10)

Cucumber Beetles Cutworms European Corn Borer Fall Armyworm Japanese Beetle (Adult) Loopers Pea Leaf Weevil Pea Weevil Plant Bug Sap Beetle Stink Bug Southern Armyworm Tarnished Plant Bug Thrips Webworms Western Bean Cutworm Whitefly Yellow Striped Armyworm	
Banks Grass Mite Two-spotted Spider Mite Carmin Mite Lygus spp.	5.9 – 7.4 (0.08-0.10)

**Product Instructions:**

Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 2 or more gallons of spray per acre by aircraft to achieve thorough coverage. When applying by air, 1-2 quarts of emulsified oil may be substituted for equivalent amounts of water in the finished spray. Thorough coverage is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

Do not apply within 3 days of harvest.

**BRASSICAS (AT PLANT, BANDED)**

Head and Stem Brassica Vegetables including: Broccoli, Chinese Broccoli (gai lan, white flowering broccoli), Brussels Sprouts, Cauliflower, Cavalo broccolo, Kohlrabi, Cabbage, Chinese Cabbage (napa), and Chinese Mustard Cabbage (gai choy)

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Rootworm larvae	5.9 – 7.4 (0.08 – 0.1)	0.34 - 0.42 (0.0046-0.0057)
Cabbage Maggot Grubs Root Maggots Root Aphids Seedcorn Maggot Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

Cutworm spp. <sup>1</sup>		
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**Product Instructions:**

Following best local practice, apply as a spray T-banded over an open furrow or in-furrow with the seed. Thorough coverage is important for good control.

<sup>1</sup>**Cutworm and armyworm:** VCP-03 may be applied as a broadcast treatment to soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.5 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**BRASSICAS (FOLIAR)**

**Head and Stem Brassica Vegetables including: Broccoli, Chinese Broccoli (gai lon, white flowering broccoli), Brussels Sprouts, Cauliflower, Cavalo broccolo, Kohlrabi, Cabbage, Chinese Cabbage (napa), and Chinese Mustard Cabbage (gai choy)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Aphids Armyworm Spp. Crickets Cucumber Beetles Cutworms Corn Earworm Diamondback Moth Flea Beetles Ground Beetles Imported Cabbageworm Leafhoppers Loopers Saltmarsh Caterpillar Stink Bug Thrips Tobacco Budworm Whitefly Wireworm (Adult)	2.4 – 7.4 (0.033-0.10)
Banks Grass Mite Carmine Mite Lygus spp. Pacific Spider Mite Two-spotted Spider Mite	5.9 – 7.4 (0.08-0.10)

**Product Instructions:**

Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 2 or more gallons of spray per acre by aircraft to achieve thorough coverage. When applying by air, 1-2 quarts of emulsified oil may be substituted for equivalent amounts of water in the finished spray. Thorough coverage is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.5 pound active ingredient per acre per season.

Do not make more than 5 applications after bloom.

Do not make applications less than 7 days apart.  
Do not apply within 7 days of harvest.

**BRASSICAS, LEAFY; TURNIP GREENS (AT PLANT, BANDED)**

**Broccoli Raab, Bok Choy, Collards, Kale, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens, Turnip Greens**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Rootworm larvae	5.9 – 7.4 (0.08 – 0.1)	0.34 - 0.42 (0.0046-0.0057)
Grubs Root Maggot Lettuce Root Aphid Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Cutworm spp. <sup>1</sup> True Armyworm <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>1</sup>**Army cutworm, Cutworm spp., True armyworm, Armyworm spp.:** Apply broadcast to soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.4 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**CANEBERRIES (FOLIAR)**

**Caneberries including: Blackberries, Bingleberries, Dewberries, Lowberries, Marionberries, Olallieberries, Youngberries, Loganberries, Raspberries**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Leafroller Orange Tortrix Root Weevil	3.7 – 7.4 (0.05-0.10)
Spider Mites	7.4 (0.10)

**Product Instructions:**

Apply VCP-03 in 50 or more gallons of spray per acre by ground equipment, or 10 or more gallons of spray per acre by aircraft to achieve thorough coverage. One application may be made pre-bloom and a second application may be made post-bloom.

**Specific Use Restrictions:**

Do not apply more than 0.2 pound active ingredient per acre per season.

Do not apply within 3 days of harvest.



Do not apply within 4 days of harvest for caneberries that are hand-harvested.

**CANOLA, CRAMBE, RAPESEED (FOLIAR)**

PESTS	USE RATES
	fl. oz. product/acre (lb. a.i./acre)
Aphids Armyworm spp. Cutworms Diamondback Moth Flea Beetles Flea Hopper Grasshoppers Loopers Other Lepidopterous Larvae Plant Bugs Stink Bugs Seedpod Weevil Thrips Whitefly	2.4 – 2.9 (0.033-0.04)

**Product Instructions:**

Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 2 or more gallons of spray per acre by aircraft to achieve thorough coverage. When applying by air, 1-2 quarts of emulsified oil may be substituted for equivalent amounts of water in the finished spray. Thorough coverage is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.08 pound active ingredient per acre per season.  
Do not make applications less than 14 days apart.  
Do not apply within 35 days of harvest.

**CILANTRO, CORIANDER (AT PLANT, BANDED)**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Armyworm spp. Cutworm spp. Flea Beetle (larvae) Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.  
Do not apply more than 0.5 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**CITRUS (BARE SOIL SURFACE UNDER DRIP LINE)**

PESTS	USE RATES
	fl. oz. product/acre (lb. a.i./acre)
Blue Green Citrus Root Weevil Brown Leaf Notcher Diaprepes Root Weevil Little Leaf Notcher Southern Blue Green Citrus Root Weevil	18.4 – 36.8 (0.25 – 0.50)

**Product Instructions:**

Using ground equipment, uniformly apply VCP-03 to the bare soil beneath citrus trees, from trunk to drip line.

Larger spray volume should increase coverage uniformity. Additionally, a pre- and post-application irrigation may aid in coverage uniformity.

VCP-03 forms a chemical barrier to Diaprepes and citrus root weevil larvae (neonates). Neonates hatch and fall from foliage, and attempt to burrow into the root zone of the tree. VCP-03 provides contact activity against these neonates, so soil disturbance at the base of trees should be minimized.

Application timing is crucial for effective control of Diaprepes Root Weevil. Depending on region, Diaprepes can have one or two emergence peaks; one in the spring and one in the fall. These peaks can be greatly affected by environmental factors such as soil moisture. Apply high rates of VCP-03 at the time of greatest emergence, or two moderate rates can be used if similar spring and fall emergence peaks are forecasted. If weevil emergence extends beyond the residual life of this product, use other management strategies (such as nematodes) to extend control. Consult with your local extension specialist or certified crop advisor for the most accurate and up-to-date emergence and application timing.

VCP-03 is also a valuable tool in an integrated pest management program for Citrus Root Weevil. Use in combination with good biological and cultural control practices for management of adult and larvae populations.

Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer.

**Specific Use Restrictions:**

Do not apply through irrigation systems.

Do not allow any application of VCP-03 to contact fruit or foliage.

Do not apply more than 0.5 pound active ingredient per acre per season.

Apply the specified dosage in a minimum of 40 gallons of finished spray per acre.

Do not apply by air.

Do not apply within 1 day of harvest.

**CORN (AT PLANT, BANDED)**

**Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed, Sweet Corn, Sweet Corn Grown for Seed**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-Band fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Corn Rootworm (larvae) (Northern, Southern, and Western)	5.9 – 14.7 (0.08 – 0.2)	0.34 - 0.84 (0.0046-0.0115)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Cutworm spp. <sup>1</sup> Grape Colapsis	2.9 – 11.8 (0.04 – 0.16)	0.17 - 0.67 (0.0023 - 0.0091)

Grubs Root Aphids Seedcorn Maggot Stalkborer <sup>1</sup> True Armyworm <sup>1</sup> Wireworm		
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**Product Instructions:**

Following best local practice, apply as a spray T-banded over an open furrow or in-furrow with the seed. Thorough coverage is important for good control.

<sup>1</sup>**Army cutworm, Stalkborer, Cutworm spp., True armyworm or Armyworm spp.:** Apply as a 5 -7 inch band over the row on the soil surface, a 5 – 7 inch band over the open furrow (T-band), in-furrow with the seed, or broadcast to the soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.2 pound active ingredient per acre per season as an at-plant application.

For field corn – Do not apply more than 0.3 pound active ingredient per acre per season including PPI, at-plant, PRE, and foliar applications of other bifenthrin products.

For sweet corn – Do not apply more than 0.2 pound active ingredient per acre total per season including PPI, at-plant, PRE, and foliar applications of other bifenthrin products.

**CORN (PRE & PPI)**

**Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed, Sweet Corn, Sweet Corn Grown for Seed**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Armyworm spp. Black Cutworm Grape Colapsis Seedcorn Maggot White Grub Wireworm	3.5 – 4.6 (0.047 – 0.062) Pre-Plant Incorporated (PPI)
Armyworm spp. Black Cutworm Stalkborer	2.9 (0.04 ) Pre-Emergence (PRE)

**Product Instructions:**

**PPI Treatments:** PPI herbicides can be tank mixed with VCP-03. Test for compatibility with jar tests or similar methods before use. Follow all use rate recommendations. Incorporate VCP-03 close to seed planting depth up to a max depth of 3 inches.

**PRE Treatments:** PRE herbicides can be tank mixed with VCP-03. Test for compatibility with jar tests or similar methods before use and follow all use rate recommendations.

**Specific Use Restrictions:**

**Field corn:** Do not apply more than 0.3 pound active ingredient per acre total per season including PPI, PRE, at-plant and foliar applications of other bifenthrin products.

**Sweet Corn:** Do not apply more than 0.2 pound active ingredient per acre total per season including PPI, PRE, at-plant and foliar applications of other bifenthrin products.

**CORN (FOLIAR)**

**Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed, Sweet Corn, Sweet Corn Grown for Seed**

<b>PESTS</b>	<b>USE RATES</b> fl. oz. product/acre (lb. a.i./acre)
Aphids Army Cutworm Armyworm spp. Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm (Adult) Cucumber Beetle (Adult) Cutworm spp. European Corn Borer <sup>3</sup> Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle (Adult) Leafhoppers Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer <sup>3</sup> Stinkbugs Thrips Tarnished Plant Bug True Armyworm Webworms Western Bean Cutworm Yellow Striped Armyworm	2.4 – 7.4 (0.033-0.10)
Banks Grass Mite <sup>1,2</sup> Carmine Mite <sup>1,2</sup> Two-spotted Spider Mite <sup>1,2</sup>	5.9 – 7.4 (0.08-0.10)

**Product Instructions:**

Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 2 or more gallons of spray per acre by aircraft to achieve thorough coverage. To improve control by aircraft, use 5 gallons of finished spray per acre particularly when initial populations are heavier than normal. When applying by aircraft, 1-2 quarts of emulsified oil may be substituted for equivalent amounts water in the finished spray. Thorough coverage is important for good control.

<sup>1</sup>**Mites:** Apply for Banks Grass Mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant. For Two-Spotted Spider Mite and Carmine Mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy. Higher rates will be necessary for heavier initial populations and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb. active per acre in tank mixture has demonstrated good control under these conditions.

<sup>2</sup>**Mite control in Texas, New Mexico, Oklahoma, Arizona:** Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 5 or more gallons of spray per acre by aircraft to achieve thorough coverage.

<sup>3</sup>**Southwestern Corn Borer and European Corn Borer:** Make initial application for corn borer control at or shortly before egg hatch and repeat as necessary.

**Corn ear-attacking pests:** Apply this product just before silking and repeat as necessary to maintain control.

**Other insect pests:** Apply when pests first appear and repeat as necessary.

**Specific Use Restrictions:**

On field corn, do not apply more than 0.3 pound active per acre per season including PPI, PRE, at-plant, plus foliar applications.

On sweet corn, do not apply more than 0.2 pound active per acre per season including PPI, PRE, at-plant, plus foliar applications.

Do not apply within 30 days of harvest for field corn or within 1 day of harvest for sweet corn.

Do not graze livestock in treated areas or cut treated crops for feed within 30 days of last application for field corn or within 1 day of harvest for sweet corn.

Use of ultra low volume (ULV) application on corn is prohibited.

Do not make aerial or ground applications to corn if heavy rainfall is imminent.

**COTTON (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	1.5 – 7.4 (0.02 – 0.10)
Boll Weevil <sup>1</sup> Bollworm Cabbage Looper Cotton Aphid <sup>2</sup> Cotton Fleahopper Cotton Leafperforator Cutworm Fall Armyworm Plant Bug Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bug Tobacco Budworm Whitefly Yellow Striped Armyworm	2.9 – 7.4 (0.04 – 0.10)
Beet Armyworm Carmine Spider Mite <sup>2</sup> Lygus Spp. Pink Bollworm Two-Spotted Spider Mite <sup>2</sup>	4.4 – 7.4 (0.06 – 0.10)

**Product Instructions:**

**Application in Water:** Apply VCP-03 in 5 or more gallons of spray per acre by ground equipment, or 1 or more gallons of spray per acre by aircraft to achieve thorough coverage. When applying by air, 1 quart of emulsified oil may be substituted for equivalent amount water in the finished spray.

**ULV Application:** Apply the recommended rate of this product in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage.

<sup>1</sup>**Boll Weevil:** Apply product at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels.

<sup>2</sup>**Mites and Aphids:** Apply when pests first appear. Repeat as necessary to maintain control. Higher rates will be required

once a damaging threshold is reached.

**Specific Use Restrictions:**

Do not apply more than 0.5 pound active ingredient per acre per season.

In California only: Do not apply more than 0.3 pound active ingredient per acre per season. Do not make more than 3 applications per season.

Do not apply within 14 days of harvest.

Do not graze livestock in treated areas or cut treated crops for feed.

Do not make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season.

**CUCURBITS (AT PLANT, BANDED)**

Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd, edible *Lagenaria spp.* (includes hyotan, cucuzza), *Luffa spp.* (includes hechima, Chinese okra), *Momordica spp.* (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars or *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin (*Cucurbita spp.*), Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (includes butternut squash, Calabaza, hubbard squash (*C. mixta*; *C. pepo*) includes acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus spp.*).

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Cutworm spp. <sup>1</sup> True Armyworm <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Cucumber Beetle (larvae) <sup>2</sup>	5.9 – 7.4 (0.08 – 0.1)	0.34 - 0.42 (0.0046-0.0057)
Flea Beetle (larvae) <sup>3</sup> Grubs <sup>3</sup> Wireworm <sup>3</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

**Product Instructions:**

<sup>1</sup>**Army cutworm, cutworm spp., true armyworm and armyworm spp.:** Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>2</sup>**Cucumber Beetle larvae (Rootworms):** Following best local practice, apply as a spray T-banded over an open furrow or in-furrow with the seed. Thorough coverage is important for good control.

<sup>3</sup>**Wireworm, grubs, and flea beetle larvae:** Following best local practice, apply as a spray T-banded over an open furrow or in-furrow with the seed. Thorough coverage is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.3 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**CUCURBITS (FOLIAR)**

Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd, edible *Lagenaria spp.* (includes hyotan, cucuzza), *Luffa spp.* (includes hechima, Chinese okra), *Momordica spp.* (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars or *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin (*Cucurbita spp.*), Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (includes butternut squash, Calabaza, hubbard squash (*C. mixta*; *C. pepo*) includes acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus spp.*).

PESTS	USE RATES
	fl. oz. product/acre (lb. a.i./acre)
Aphids Armyworm Cabbage Looper Corn Earworm Cucumber Beetle Cutworm Grasshopper Leafhoppers Melonworm Pickleworm Plant Bug Rindworm Squash Bug Squash Vine Borer Stink Bug Tobacco Budworm	2.9 – 7.4 (0.04-0.10)
Banks Grass Mite Carmin Mite Lygus spp. Two-spotted Spider Mite Whitefly	5.9 – 7.4 (0.08-0.10)

**Product Instructions:**

Apply VCP-03 in 20 or more gallons of spray per acre by ground equipment, or 5 or more gallons of spray per acre by aircraft to achieve thorough coverage. When applying by air, 1-2 quarts of emulsified oil may be substituted for equivalent amounts of water in the finished spray. Thorough coverage is important for good control.

**Specific Use Restrictions:**

- Do not apply more than 0.3 pound active ingredient per acre per season.
- Do not make more than 2 applications after bloom.
- Do not make applications less than 7 days apart.
- Do not apply within 3 days of harvest.

**EGGPLANT (AT PLANT, BANDED)**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Rootworm larvae	5.9 – 7.4 (0.08 – 0.1)	0.34 - 0.42 (0.0046-0.0057)

Grubs Root Maggot Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Cutworm spp. <sup>1</sup> True Armyworm <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>1</sup>**Army cutworm, Cutworm spp., True Armyworm, or Armyworm spp.:** For best results apply as broadcast to soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**EGGPLANT (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Armyworm Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle European Corn Borer Flea Beetle Plant Bug Stink Bug Thrips Tomato Hornworm Tomato Pinworm Vegetable Leafminer Whitefly	2.4 – 7.4 (0.033-0.10)
Banks Grass Mite Carmin Mite Lygus spp. Pacific Spider Mite Two-spotted Spider Mite	5.9 – 7.4 (0.08-0.10)

**Product Instructions:**

Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 2 or more gallons of spray per acre by aircraft to achieve thorough coverage. When applying by air, 1-2 quarts of emulsified oil may be substituted for equivalent amounts of water in the finished spray. Thorough coverage is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.2 pound active ingredient per acre per season.

Do not make applications less than 7 days apart.

Do not apply within 7 days of harvest.



**GRAPES (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Eastern Grape Leafhopper Variegated Leafhopper Western Grape Leafhopper Cutworms Grape Berry Moth Japanese Beetle (Adult)	3.7 – 7.4 (0.05-0.10)
Black Vine Weevil Glassywinged Sharpshooter Two-spotted Spider Mite	7.4 (0.10)

**Product Instructions:**

Apply VCP-03 in 25 or more gallons of spray per acre by ground equipment, or 10 or more gallons of spray per acre by aircraft to achieve thorough coverage. When applying by air, 1-2 quarts of emulsified oil may be substituted for equivalent amounts of water in the finished spray. Thorough coverage is important for good control. When pest pressure is moderate to severe, use higher rate within the rate range.

**Specific Use Restrictions:**

Not for use in California unless allowed by an approved supplemental label.  
Do not apply more than 0.10 pound active ingredient per acre per season.  
Do not apply within 30 days of harvest.

**HOPS (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Aphids Armyworm Cutworm Leafroller Looper	4.4 – 7.4 (0.06-0.10)
Root Weevil <sup>1</sup>	3.7 – 7.4 (0.05-0.10)
Two-spotted Spider Mite <sup>2</sup>	7.4 (0.10)

**Product Instructions:**

Apply this product in a minimum of 100-150 gallons per acre with ground equipment in early season, or 200-250 gallons of spray per acre in late season. Thorough coverage is important for good control.

<sup>1</sup>**Root Weevil:** Direct spray at lower 3 feet of plant plus 1.5-2 feet of soil on both sides of plant row.

<sup>2</sup>**Two-spotted Spider Mite:** Apply no less than 7.4 fl. oz. (0.10 lb. a.i. per acre) per application in a minimum of 10 gallons of finished spray per acre by aircraft.

**Specific Use Restrictions:**

Do not exceed 0.1 pound active ingredient per acre per application.  
Do not apply more than 0.3 pound active ingredient per acre per season.  
Use of ultra low volume (ULV) application on hops is prohibited.

Do not apply within 14 days of harvest.  
Do not make applications less than 21 days apart.

**LETTUCE, HEAD (AT PLANT, BANDED)**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Corn Rootworm (larvae)	5.9 – 7.4 (0.08 – 0.1)	0.34 - 0.42 (0.0046-0.0057)
Grubs Lettuce Root Aphid Root Maggot Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Bulb Mites <sup>1</sup> Cutworm spp. <sup>1</sup> True Armyworm <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>1</sup>Army cutworm, Cutworm spp., True armyworm, Armyworm spp., bulb mites: Apply broadcast to soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.5 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**LETTUCE, HEAD (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Aphids Armyworm Cabbage Maggot Corn Earworm Cucumber Beetle Cutworm Diamondback Moth Flea Beetle Grasshoppers Imported Cabbageworm Leafhopper Looper Saltmarsh Caterpillar Stink Bug spp. Thrips Tobacco Budworm	2.4 – 7.4 (0.033-0.10)

Whitefly	
Carmin Mite Lygus spp. Two-spotted Spider Mite	5.9 – 7.4 (0.08-0.10)

**Product Instructions:**

Apply VCP-03 in 15 or more gallons of spray per acre by ground equipment, or 5 or more gallons of spray per acre by aircraft to achieve thorough coverage. When applying by air, 1-2 quarts of emulsified oil may be substituted for equivalent amounts of water in the finished spray. Thorough coverage is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.5 pound active ingredient per acre per season including at plant plus foliar applications of all bifenthrin products.

Do not make applications less than 7 days apart.

Do not apply within 7 days of harvest.

**OKRA (AT PLANT, BANDED)**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Wireworm Armyworm Cutworm Flea Beetle (larvae)	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**PEANUT (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Beet Armyworm Corn Earworm Cutworm Species Fall Armyworm Grasshoppers Green Cloverworm Leafhoppers Lesser Cornstalk Borer Loopers Rednecked Peanut Worm Southern Armyworm	2.4 – 7.4 (0.033-0.1)

Southern Corn Rootworm Stink Bugs Three cornered Alfalfa Hoppers Velvetbean Caterpillar Yellowstriped Armyworm	
Aphids Spider Mites Thrips Whitefly	5.9 – 7.4 (0.08-0.1)

**Product Instructions:**

Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 2 or more gallons of spray per acre by aircraft to achieve thorough coverage.

**Specific Use Restrictions:**

Not for use in California unless allowed by an approved supplemental label.

Do not apply more than 0.5 pound active ingredient per acre per season.

Do not make applications less than 14 days apart.

Do not feed treated peanut hay or immature plants to livestock.

Do not apply within 14 days of harvest.

**PEARS (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Aphids Codling Moths Cutworms Green Fruitworms Leafhoppers Leafminers Leafroller Lygus spp. Plant Bugs Plum Curculio San Jose Scale Crawlers Stink Bugs Tarnished Plant Bugs	2.9 – 14.7 (0.04-0.2)
Two-spotted Spider Mite Yellow Mite	4.4 – 14.7 (0.06-0.2)
European Red Mite	5.9 – 14.7 (0.08-0.2)

**Product Instructions:**

Apply VCP-03 in 50 or more gallons of spray per acre by ground equipment as a concentrate, 200 or more gallons of spray by ground equipment as a dilute, or 10 or more gallons of spray per acre by aircraft to achieve thorough coverage. Thorough coverage is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.5 pound active ingredient per acre per season, with no more than 0.45 pound active per acre applied after petal fall.

Do not make applications less than 30 days apart.  
 Do not graze livestock in treated orchards or cut treated cover crops for feed.  
 Do not apply within 14 days of harvest.

**PEPPERS, BELL & NON-BELL (AT PLANT, BANDED)**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Rootworm larvae	5.9 – 7.4 (0.08 – 0.1)	0.34 - 0.42 (0.0046-0.0057)
Flea beetle (larvae) Grubs Pepper Maggot Root Aphid Root Maggot Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Cutworm spp. <sup>1</sup> Stalk Borer <sup>1</sup> True Armyworm <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>1</sup>**Army cutworm, Cutworm spp., True armyworm, Armyworm spp., Stalk Borer:** For best results apply broadcast to soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**PEPPERS, BELL & NON-BELL (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Aphids Armyworm Corn Earworm Cucumber Beetle Cutworm European Corn Borer Flea Beetle Leafhopper Leafminer Looper Pepper Weevil Stink Bugs	2.4 – 7.4 (0.033-0.10)

Thrips Tobacco Budworm Whitefly	
Lygus spp. Broad Mite Carmin Mite Two-spotted Spider Mite	5.9 – 7.4 (0.08-0.10)

**Product Instructions:**

Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 2 or more gallons of spray per acre by aircraft to achieve thorough coverage. Thorough coverage is important for good control.

**Specific Use Restrictions:**

Do not apply more than 0.2 pound active ingredient per acre per season.  
Do not make applications less than 7 days apart.  
Do not apply within 7 days of harvest.

**SOD FARMS (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)	USE RATES fl. oz. product/1000 ft <sup>2</sup> (lb. a.i./1000 ft <sup>2</sup> )
Armyworms <sup>1</sup> Cutworms <sup>1</sup> Sod Webworm <sup>1</sup>	2.4 – 3.8 (0.033 – 0.051)	0.06 – 0.09 (0.0008 – 0.0012)
Annual Bluegrass Weevil (Hyperodes) <sup>2</sup> (Adult) Banks Grass Mite <sup>6</sup> Billbugs (Adult) <sup>3</sup> Black Turfgrass Ataenius (Adult) <sup>4</sup> Crickets Earwigs Grasshoppers Mealybugs Mites <sup>5</sup>	3.8 – 7.5 (0.051 – 0.102)	0.09 – 0.17 (0.0012 – 0.0023)
Ants Chinch Bugs <sup>5</sup> Japanese Beetle (Adult) Mole Cricket (Adult) <sup>7</sup> Mole Cricket (Nymph) <sup>8</sup>	7.5 – 15.0 (0.102 – 0.204)	0.17 – 0.34 (0.0023 – 0.0047)

**Product Instructions:**

Following best local practice, apply as a broadcast treatment. Use higher volumes up to 10 gallons of carrier per 1000 square feet to get uniform coverage when treating dense grass foliage. For best foliage wetting, apply tank-mixed with a compatible surfactant. Thorough coverage is important for good control.

Irrigation to treated area within a few hours following application can improve efficacy to sub-surface pests including mole crickets.

Recommended rates should be effective for all pests listed in above table. However, if pest populations are extremely high or maximum residual control is required, VCP-03 may be applied at a maximum of 0.34 fl. oz. per 1000 square feet per application.

<sup>1</sup>Armyworms, Cutworms and Sod Webworms: Delay watering (irrigation) or mowing for 24 hours after application to

ensure optimum control. If the grass area is being maintained at a mowing height of greater than 1 inch, then higher application rates (up to 0.34 fl. oz. per 1000 square feet per application) may be required during periods of high pest pressure.

<sup>2</sup>**Annual Bluegrass Weevil (adult):** For optimal control, time applications to coincide with adult weevil movement from overwintering sites to grass areas. Weevil migration time usually begins at Forsythia bloom and ends with the full bloom of the flowering dogwood (*Cornus florida*). Consult with your local extension specialist or certified crop advisor for the most accurate and up-to-date emergence and application timing.

<sup>3</sup>**Billbug (adult):** For best results, apply VCP-03 when adults are first observed. Consult with your local extension specialist or certified crop advisor for the most accurate and up-to-date emergence and application timing.

<sup>4</sup>**Black Turfgrass Ataenius (adult):** In order to control the first and second generations, apply product in May and July. First application should coincide with blooming horse chestnut (*Aesculus hippocastanum*) and Vanhoutte spiraea (*Spiraea vanhouttei*). Second (July) application should coincide with Rose of Sharon (*Hibiscus syriacus*) bloom.

<sup>5</sup>**Chinch Bug:** Chinch bugs are found in the thatch layer and infest the base of grass plants. To optimize penetration of VCP-03 to chinch big location, irrigate (water) grass after treatment. If grass area is being maintained at a long mowing height or if thatch layer is excessive, apply at a higher volume. High application rates (up to 0.34 fl. oz. per 1000 square feet per application) can be used to control difficult midsummer nymph and adult populations.

<sup>6</sup>**Mites:** For optimal control, a second application, five to seven days after the first, may be necessary.

<sup>7</sup>**Mole Cricket (adult):** For best results on this very active insect pest, apply as late in the day as possible. Water grass after treatment with up to 0.5 inches of water. If soil is dry, irrigate before treatment to bring insects closer to the surface and insecticide treatment. Treat at peak egg hatch to ensure larvae are suppressed at hatch. Consult with your local extension specialist or certified crop advisor for the most accurate and up-to-date emergence and application timing.

<sup>8</sup>**Mole Cricket (nymph):** If areas were under high mole cricket pressure in the spring, then treat immediately before peak egg hatch. Emerging insect nymphs are both close to soil surface and more susceptible to insecticide, while older and larger nymphs cause more damage and are more difficult to control. Higher application rates and more frequent applications may need to be made to control the older nymphs. For best results, apply as late in the day as possible, and water grass after treatment with up to 0.5 inches of water. If soil is dry, irrigate before treatment to bring insects closer to the surface and insecticide treatment.

**Specific Use Restrictions:**

Not for use in California unless allowed by an approved supplemental label.

**New York State Restrictions – Turf and Ornamental:**

**NOT FOR USE ON SOD FARMS IN THE STATE OF NEW YORK.**

In New York State, this product may not be applied to turf within 100 feet of a coastal marsh (or of a water body [lake, pond, river, stream, wetland, or drainage ditch]).

In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

**SOYBEANS (AT PLANT, BANDED)**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Rootworm larvae	5.9 – 7.4 (0.08 – 0.1)	0.34 - 0.42 (0.0046-0.0057)
Grape Colapsis Grubs Root Maggot Seedcorn Maggot Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Cutworm spp. <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

True Armyworm <sup>1</sup>		
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**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>1</sup>**Army cutworm, Cutworm spp., True armyworm, Armyworm spp.:** For best results apply broadcast to soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.3 pound active ingredient per acre per season including PPI, at-plant, PRE, and foliar application of other bifenthrin products.

**SOYBEAN (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Alfalfa Caterpillar Aphids Armyworms <sup>1</sup> Bean Leaf Beetle Blister Beetle spp. Corn Earworm Corn Rootworm (Adult) Cowpea Curculio Cucumber Beetles (Adult) Cutworms Dectes Stem Borer False Chinch Bug Flea Beetle Grasshoppers Green Cloverworm Hornworms Imported Cabbageworm Japanese Beetle (Adult) Leaf Skeletonizer spp. Leafhoppers Leafminers (Adult) Lesser Cornstalk Borer Loopers Mexican Bean Beetle Painted Lady (Thistle) Caterpillar Pea Leaf Weevil Saltmarsh Caterpillar Seedcorn Maggot (Adult) Silverspotted Skipper Spittlebug Stink Bug Three-Cornered Alfalfa Hopper Thrips Tobacco Budworm <sup>1</sup> Velvetbean Caterpillar Webworm	2.4 – 7.4 (0.033-0.10)



Woollybear Caterpillar	
Lygus Species	5.9 – 7.4
Whitefly	(0.08-0.10)
Two Spotted Spider Mite	

**Product Instructions:**

Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 2 or more gallons of spray per acre by aircraft to achieve thorough coverage.

<sup>1</sup>**Armyworms, tobacco budworm:** Please consult your local or state agricultural authority to determine if pyrethroid resistance is present in armyworm, or tobacco budworm populations in your area. If so refer to the resistance management section of this label.

**Specific Use Restrictions:**

Not for use in California unless allowed by an approved supplemental label.

Do not apply more than 0.3 pound active ingredient per acre per season including PPI, at-plant, PRE, and foliar application of other bifenthrin products.

Do not make applications less than 30 days apart.

Do not apply within 18 days of harvest.

**SOYBEAN (PPI & PRE)**

PESTS	USE RATES
	fl. oz. product/acre (lb. a.i./acre)
Armyworm spp. Black Cutworm Seedcorn Maggot White Grub Wireworm	3.5 – 4.6 (0.047 to 0.062) Pre-Plant Incorporated (PPI)
Armyworm spp. Black Cutworm Stalkborer	2.9 (0.04 ) Pre-Emergence (PRE)

**Product Instructions:**

**PPI Treatments:** PPI herbicides can be tank mixed with VCP-03. Test for compatibility with jar tests or similar methods before use. Follow all use rate recommendations. Incorporate VCP-03 close to seed planting depth up to a max depth of 3 inches.

**PRE Treatments:** PRE herbicides can be tank mixed with VCP-03. Test for compatibility with jar tests or similar methods before use and follow all use rate recommendations.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as PPI or PRE application.

Do not apply more than 0.3 pound active ingredient per acre per season including PPI, at-plant, PRE, and foliar application of other bifenthrin products.

**SPINACH (AT PLANT, BANDED)**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Rootworm larvae	5.9 – 7.4	0.34 - 0.42

	(0.08 – 0.1)	(0.0046-0.0057)
Grubs		
Root Maggot	2.9 – 5.9	0.17 - 0.34
Seedcorn Maggot	(0.04 – 0.08)	(0.0023 - 0.0046)
Wireworm		
Army Cutworm <sup>1</sup>		
Armyworm spp. <sup>1</sup>	2.9 – 5.9	0.17 - 0.34
Cutworm spp. <sup>1</sup>	(0.04 – 0.08)	(0.0023 - 0.0046)
True Armyworm <sup>1</sup>		

**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>1</sup>**Army cutworm, Cutworm spp., True armyworm, Armyworm spp.:** Apply broadcast to the soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.4 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**SPINACH (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Armyworms	
Colorado Potato Beetle	
Corn Earworm	
Cucumber Beetles	
Cutworms	
European Corn Borer	
Flea Beetles	2.4 – 7.4
Leafminers	(0.033-0.10)
Loopers	
Pepper Weevil	
Thrips	
Tomato Hornworm	
Tomato Pinworm	
Whitefly <sup>1</sup>	
Broad Mite	
Banks Grass Mite	
Carmine Mite	5.9 – 7.4
Lygus spp.	(0.08-0.10)
Pacific Spider Mite	
Two-spotted Spider Mite	

**Product Instructions:**

Apply VCP-03 in 10-50 gallons of spray per acre by ground equipment, or 5-50 gallons of spray per acre by aircraft to achieve thorough coverage.

<sup>1</sup>**Whitefly:** apply foliar treatments of VCP-03 by group or air at rates of up to 0.1 lb active per acre per application at minimum 7-day intervals up to a maximum of 4 applications.

**Specific Use Restrictions:**

Do not apply more than 0.4 pound active ingredient per acre per season.  
 Do not make applications less than 7 days apart.  
 Do not apply within 40 days of harvest.

**TOBACCO (PRE-TRANSPLANT & AT-TRANSPLANT)**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	AT TRANSPLANT fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Armyworm spp. Cutworm spp. Flea Beetle (larvae) Mole Cricket Stalkborer White Grubs Wireworm	2.9 – 7.4 (0.04 – 0.1)	0.17 – 0.42 (0.0023 – 0.0057)

**Product Instructions:**

**Pre-transplant soil applications:** Use of suitable equipment to incorporate into top 4 inches of the soil is required to control below ground pests.

**At-transplant water treatment application:** Apply 0.0625 to 0.1 lb. a.i./ acre per application in a water treatment application volume of 10 to 200 gal/A.

**Specific Use Restrictions:**

Do not apply more than 0.2 pound active ingredient per acre per season.  
 May be tank mixed with herbicides approved for tobacco use, test first for compatibility.

**TOBACCO (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Aphid spp.* Armyworm spp. Chinch Bugs Cutworm spp. Flea Beetle (adult) Grasshoppers Green Bugs Japanese Beetles Stink Bugs Tarnished Plant Bugs Thrips Whiteflies	2.9 – 7.4 (0.04 – 0.1)
Hornworm Tobacco Budworm	5.9 – 7.4 (0.08 – 0.10)
Lygus spp. Spider Mites	7.4 (0.1)

**Product Instructions:**

Apply 0.04 to 0.10 lb ai/acre per foliar application up to, and including, layby in 10 or more gallons per acre for thorough control.

**Specific Use Restrictions:**

Not for use in California unless allowed by an approved supplemental label.

Do not make more than 2 foliar applications per season.

Do not apply more than 0.2 pounds active ingredient per acre per season.

Do not apply later than layby.

May be tank mixed with other herbicides approved for tobacco use. Test for compatibility before application.

\* See resistance management statement under "Directions for Use" section.

**TOMATOES (AT PLANT, BANDED)**

PESTS	USE RATES	
	BROADCAST fl. oz. product/acre (lb. a.i./acre)	IN-FURROW / T-BAND fl. oz. product/1000 row ft. (lb. a.i./1000 row ft.)
Rootworm larvae	5.9 – 7.4 (0.08 – 0.1)	0.34 - 0.42 (0.0046-0.0057)
Flea Beetle (larvae) Grubs Root Maggot Wireworm	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)
Army Cutworm <sup>1</sup> Armyworm spp. <sup>1</sup> Cutworm spp. <sup>1</sup> Stalkborer <sup>1</sup> True Armyworm <sup>1</sup>	2.9 – 5.9 (0.04 – 0.08)	0.17 - 0.34 (0.0023 - 0.0046)

**Product Instructions:**

Following best local practice, apply T-band over an open furrow, in-furrow as a spray, or as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good control.

<sup>1</sup>Army cutworm, Armyworm spp., Cutworm spp., Stalkborer, True Armyworm: Apply broadcast to soil surface.

**Specific Use Restrictions:**

Do not apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

Do not apply more than 0.40 pound active ingredient per acre per season including at-plant plus foliar application of other bifenthrin products.

**TOMATOES (FOLIAR)**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Aphids Armyworms (Beet Armyworm, Fall Armyworm, Southern Yellow-striped Armyworm) Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm	2.4 – 5.9 (0.033-0.08)

Corn Earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt March Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug spp. Tobacco Budworm Tarnished Plant Bug Thrips Two-spotted Spider Mite Whitefly	
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**Product Instructions:**

Apply VCP-03 in 15 or more gallons of spray per acre by ground equipment to achieve thorough coverage. Thorough coverage is essential to achieve control.

**Specific Use Restrictions:**

Do not make applications less than 10 days apart.

A maximum of 4 applications may be applied per season.

Do not apply within 1 day of harvest.

Do not apply more than 0.40 pound active ingredient per acre per season including at-plant plus foliar applications of all bifenthrin products.

**TUBEROUS AND CORM VEGETABLES (AT PLANT, BANDED)**

**Potato, Sweet potato, Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Edible canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Tanier, Turmer, Yam bean, True yam**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Grape Colaspis	
Rootworm	
Sweet Potato Flea Beetle	11.0 – 22.1
White Grub	(0.15 – 0.30)
Wireworm	

**Product Instructions:**

VCP-03 may be applied as a soil incorporated broadcast, directed bed spray or a T-band spray into the planting furrow for the control of wireworms, rootworms, sweet potato flea beetles and white grubs. Apply VCP-03 in 10 or more gallons of spray per acre to achieve thorough coverage..

**Specific Use Restrictions:**

Do not apply more than 0.3 pound active ingredient per acre per season as an at-plant application.  
Do not apply more than 0.5 pound active ingredient per acre per season including PPI, soil, lay-by, at-plant, plus foliar application of other bifenthrin products.

**TUBEROUS AND CORM VEGETABLES (PPI)**

**Potato, Sweet potato, Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Edible canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Tanier, Turmer, Yam bean, True yam**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Grape Colaspis Rootworm Sweet Potato Flea Beetle White Grub Wireworm	11.0 – 22.1 (0.15 – 0.30)

**Product Instructions:**

Apply VCP-03 to the planting area as a broadcast application or a banded application prior to planting and incorporate to the planting depth. Apply VCP-03 in 10 or more gallons of spray per acre to achieve thorough coverage.

**Specific Use Restrictions:**

Do not apply more than 0.5 pound active ingredient per acre per season including PPI, soil, lay-by, at-plant, plus foliar application of other bifenthrin products.

**TUBEROUS AND CORM VEGETABLES (LAY-BY)**

**Potato, Sweet potato, Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Edible canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Tanier, Turmer, Yam bean, True yam**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Grape Colaspis Rootworm Sweet Potato Flea Beetle White Grub Wireworm	11.0 – 22.1 (0.15 – 0.30)

**Product Instructions:**

VCP-03 may be applied as one or more soil directed and incorporated treatments at cultivation or lay-by for the control of wireworms, rootworms and white grubs. Apply VCP-03 to the drill area and incorporate by cultivation equipment set to throw soil towards the drill area. Apply VCP-03 in 10 or more gallons of spray per acre to achieve thorough coverage.

**Specific Use Restrictions:**

Do not apply more than 0.5 pound active ingredient per acre per season including PPI, soil, lay-by, at-plant, plus foliar

application of other bifenthrin products.

**TUBEROUS AND CORM VEGETABLES (FOLIAR)**

**Potato, Sweet potato, Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Edible canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Tanier, Turmer, Yam bean, True yam**

PESTS	USE RATES fl. oz. product/acre (lb. a.i./acre)
Click Beetle (Adult Corn Wireworm, Tobacco Wireworm, Southern Potato Wireworm) Sweetpotato Flea Beetle (Adult) Black Flea Beetle (Adult) Whitefringed Beetle May/June Beetle (Adult White Grub) Cucumber Beetle (Adult Rootworm)	2.4 – 7.4 (0.033 to 0.10)

**Product Instructions:**

Apply VCP-03 in 10 or more gallons of spray per acre by ground equipment, or 3 or more gallons of spray per acre by aircraft to achieve thorough coverage.

**Specific Use Restrictions:**

- Not for use in California unless allowed by an approved supplemental label.
- Do not make applications less than 21 days apart.
- A maximum of 2 foliar applications may be applied per season.
- Do not apply within 21 day of harvest.
- Do not apply more than 0.5 pound active ingredient per acre per season including PPI, soil, lay-by, at-plant, plus foliar applications of all bifenthrin products.

## STORAGE AND DISPOSAL

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

### **Pesticide Storage**

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

### **Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### **Container Handling:**

*{NOTE TO REVIEWER – The appropriate Container Handling instructions will be selected from the following to appear on the final printed commercial label depending on which container the label is being printed for.}*

[Metal or Plastic Container less than or equal to 5 gallons

Non-refillable container. Do not reuse or refill this container. Triple rinse container 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 reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.]

[Container Handling greater than 5 gallons]

[Refillable container: Refill this container with pesticide only. Do not reuse the container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.]

[Non-refillable container: Do not reuse or refill this container. Offer for recycling if available. 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 closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.][W1]

[CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.]



**IMPORTANT INFORMATION**  
**READ BEFORE USING PRODUCT**

**Conditions of Sale and Limitation of Warranty and Liability:**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of Vive Crop Protection or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Vive Crop Protection and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, VIVE CROP PROTECTION MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT.

Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) Seller or Vive Crop Protection, and Buyer assumes the risk of any such use.

To the extent consistent with applicable law, Vive Crop Protection or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF VIVE CROP PROTECTION AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF VIVE CROP PROTECTION OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement except as signed by an authorized representative of Vive Crop Protection.

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*{Optional marketing or other non-FIFRA related language}*

SHAKE WELL BEFORE USE

Liquid fertilizer compatible

Mix insecticide and liquid fertilizer, worry free

Designed for liquid fertilizer compatibility

Alloperse delivery system

Using the Alloperse delivery system

Apply fertilizer and insecticide in a single pass

Mix directly with {most types of} starter fertilizer; NO expensive equipment, NO additives

No worries if weather delays application – product stays mixed in {most} fertilizers for 24 hours with only mild agitation needed