

89118-1

06/03/2013

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

EPA Reg. Number:
89118-1

Date of Issuance:
JUN 3 2013

Term of Issuance:
Unconditional

Name of Pesticide Product:
VCP-01 10WG

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(Under FIFRA as amended)

Name and Address of Registrant (include ZIP Code):

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

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

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

This product is **unconditionally** registered in accordance with FIFRA sec. 3(c)(5). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3).

1. You will make the following label changes before you release the product for shipment:
 - a) Revise the EPA Registration Number to read "EPA Reg. No. 89118-1"
2. Within one year from the date of this notice submit the results of studies for guidelines 830.6317 (one year storage stability) and 830.6320 (corrosion characteristics) studies with observations made at 0, 3, 6, 9, and 12 months intervals.
3. Please submit two (2) copies of your final printed labeling before releasing the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact BeWanda Alexander at www.alexander.bewanda@epa.gov or (703) 305-7460.

Signature of Approving Official:

BeWanda Alexander for
Richard Gebken Product Manager
Insecticide Branch/Registration Division (7505P)

Date:

June 3, 2013

Enclosure

RESTRICTED USE PESTICIDE

TOXIC TO FISH AND AQUATIC ORGANISMS

For retail sale and use only be certified applicators, or persons under their direct supervisions and only for those uses covered by the certified applicators certification

VCP-01 10WG

INSECTICIDE / MITICIDE

GROUP 3 INSECTICIDE

EPA Reg. No. 89118-xxxx

EPA Est. _____

Active Ingredient:	By Wt.
Bifenthrin	10.0%
Other Ingredients:	90.0%
	100.0%

*Cis isomers 97% minimum, trans isomers 3% maximum

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

This label must be in the possession of the user at the time of application.

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.)

FIRST AID

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Note to Physician:

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.

HOTLINE NUMBERS

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment information, call the Rocky Mountain Poison Control Center at 1-866-673-6671. For chemical emergencies, spills, leaks, fires, exposures, and accidents call CHEMTREC at 1-800-331-3148.



Vive Crop Protection
VIVE 700 Bay St., Suite 1100
Toronto, ON M5G 1Z6

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment

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

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

Mixers and Loaders must wear:

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

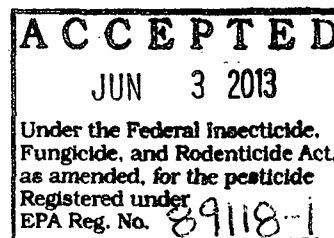
Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 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.

Net Contents: 2.5 lb



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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 actively visiting 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

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

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

Resistance: 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.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

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; Waterproof gloves; and Shoes plus socks.

See supplemental label for directions for use in California.

GENERAL INSTRUCTIONS

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

VCP-0110 WG Insecticide / Miticide must be diluted with water before application. Do not use strainers (nozzle screens) greater than 50 mesh.

Fill the spray tank half-full with water, then add the required amount of VCP-01. Begin spray tank agitation; air agitation is not recommended. Mix thoroughly to disperse and suspend the VCP-01 WG. Then fill the spray tank to the intended final volume with water. Maintain agitation during application in and in any nurse tank or storage tank.

Mix only the required amount; do not store diluted material.

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.

Tank-Mixture

VCP-01 Insecticide/Miticide may be applied in tank mixtures with other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing using a standard jar test or other similar method.

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 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.in.csusda/v/technical/agronom/newconbutpdf>

Buffer Zone for Ground Application (groundboom 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.)

SPRAY DRIFT REQUIREMENTS

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, applicators should use a coarser droplet size.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and 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 INSTRUCTIONS

The rate of application should be varied according to pest pressure, timing of sprays, and field scouting. Use lower rates under light to moderate infestation, higher rates under heavy infestation and for mite control. Arid climates generally require higher rates. Assure thorough coverage.

ARTICHOKE

PEST	DOSAGE oz/A (lb a.i./A)
Artichoke plum moth	16.0
Cribate weevil	(0.10)

INSTRUCTIONS:

Apply when pest population reaches damaging threshold and repeat as necessary to maintain control, but not more often than 15-day intervals. Do not exceed 0.10 lb a.i. between bud formation and harvest of an individual fruit.

Application by ground: Apply a full cover spray in a minimum of 75 gallons of finished spray per acre.

Application by air: Apply specified dosage in a minimum of 10 gallons per acre.

Do not exceed 0.5 lb a.i. per acre per season.

PHI: Do not apply within 5 days of harvest.

BRASSICAS: Head and Stem Brassica

Vegetables – Broccoli, Chinese Broccoli, Brussels Sprouts, Cauliflower, Cavalo Broccolo, Kohlrabi, Cabbage, Chinese Cabbage, Chinese Mustard Cabbage

PEST	DOSAGE oz/A (lb a.i./A)
Grubs Maggot Wireworm	8.0 to 16.0 (0.05 to 0.10)
Aphids Armyworms Corn earworm Cricket Cucumber beetle Cutworm Diamondback moth Flea beetle Ground beetles Imported cabbageworm Leafhopper Loopers Saltmarsh caterpillar Stink bugs Thrips Tobacco budworm Wireworm adults	5.3 to 16.0 (0.033 to 0.10)
Banks grass mite Carmine mite Lygus spp. Pacific spider mite Two-spotted spider mite Whitefly	12.8 to 16.0 (0.08 to 0.10)

INSTRUCTIONS:

Planting time use for wireworm, maggot, or grubs, apply in-furrow with the seed or transplant.

Foliar use: Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 20 gallons per acre by ground. Thorough coverage is essential to achieve control.

Do not apply more than 0.5 lb ai per acre per season including at-plant applications.

Do not make more than 5 applications after bloom.

Do not make applications less than 7 days apart.

PHI: Do not apply within 7 days of harvest.

CANEBERRIES: Blackberries, Bingleberries, Dewberries, Lowberries, Marionberries, Olallie berries, Youngberries, Loganberries, Raspberries

PEST	DOSAGE oz/A (lb a.i./A)
Black vine weevils Leafrollers Orange tortrix Root weevils	8.0 to 16.0 (0.05 to 0.1)
Carmine mite Raspberry crown borer Two-spotted spider mite	16.0 (0.1)

INSTRUCTIONS:

Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons per acre by air and 50 gallons per acre by ground).

One application may be made pre-bloom and a second application may be made post-bloom.

For Crown Borer, apply 0.1 lb a.i per acre post-harvest (fall) or pre-bloom (spring), as a drench application directed at the crown of plants in a minimum of 20 gallons per acre. Greater efficacy is observed at higher water gallonages (up to 400 gallons per acre) or in an application prior to a significant rainfall event. Do not make both pre-bloom foliar and pre-bloom drench applications.

Do not exceed 0.2 lb a.i. per acre per season.

PHI: Do not apply within 3 days of harvest.

CANOLA, CRAMBE, RAPESEED

PEST	DOSAGE oz/A (lb a.i./A)
Aphids	5.3 to 6.4
Amyworms	(0.33 to 0.04)
Cutworms	
Diamondback moth	
Flea beetles	
Flea hopper	
Grasshopper	
Loopers	
Other lepidoptera larvae	
Plant bugs	
Seedpod weevil	
Stink bugs	
Thrips	

INSTRUCTIONS:

Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre by ground. Thorough coverage is essential to achieve control.

Do not apply more than 0.08 lb ai per acre per season.

Do not make applications less than 14 days apart.

PHI: Do not apply within 35 days of harvest.

CITRUS

PEST	DOSAGE oz/A (lb a.i./A)
Blue green citrus root weevil	40.0 to 80.0
Brown leaf notcher	(0.25 to 0.50)
Diaprepes root weevil	
Little leaf notcher	
Southern blue green root weevil	
Asian cockroach Fireant	16.0 to 40.0
	(0.1 to 0.25)

INSTRUCTIONS:

Use ground application only. Do NOT apply by air.

Apply by ground equipment to bare soil beneath citrus trees. Apply uniformly from the tree trunk to the drip line. Apply in a minimum of 40 gallons per acre. Greater spray volumes should insure greater uniformity of coverage. A pre- and post-application irrigation may aid in achieving uniformity of coverage

Citrus tree roots are protected from Diaprepes and other citrus root weevil feeding by the formation of a barrier which provides contact activity on newly hatched larvae (neonates). As citrus root weevil eggs hatch in new foliage, neonates fall to the soil surface beneath the tree and come into contact with the insecticide barrier as they attempt to burrow into the root zone. Disturbance of the soil beneath the trees should be minimized.

The timing of applications is critical. Current information indicates that peak emergence of adult Diaprepes weevil varies by citrus growing region and these emergence peaks can be dramatically affected by environmental factors such as soil moisture. Typically, two peaks are observed for Diaprepes, first in the spring and second in the late summer or early fall. Southern blue green and Blue green citrus weevils and Fuller rose beetle typically exhibit a single emergence peak in the spring. Brown and Little leaf notchers typically exhibit three emergence peaks, spring, summer, and fall. Since emergent varies seasonally and by location, timing of applications can be accurately forecast by observing adults. Adults are most active early morning and late afternoon. Numbers can be estimated by trapping throughout the spring and summer (emergence periods). Egg laying will occur for 8 to 10 weeks following adult emergence from the soil. Larval invasion of the soil will begin 2-3 weeks following adult emergence. It is critical to have the insecticide soil barrier in place prior to the drop of the neonates.

Bifenthrin is one of several effective tools in an integrated pest management program for citrus root weevils. Application of bifenthrin should be used in conjunction with good cultural practices, biological control of larvae and foliar control of adults. Consult local university extension personnel for current information to protect citrus trees from citrus root weevils and other pests.

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

If the citrus orchard is in an area where weather conditions are conducive to primary emergence in the spring, 0.50 lb a.i. per acre should be used to obtain the longest residual management of Diprepes root weevil.

If the citrus orchard to be treated is in an area where weather conditions will promote more than one peak of emergence, 0.25 lb a.i. per acre can be applied early season and 0.25 lb a.i. per acre can be applied later in the season.

Do not apply through irrigation systems.

Do not allow any application spray to contact the fruit or foliage.

Do not apply more than 0.50 lb a.i. per acre per year.

PHI: Do not apply within 1 day of harvest.

COTTON

PEST	DOSAGE oz/A (lb a.i./A)
European corn borer	3.2 to 16.0
Soybean (banded) thrips	(0.02 to 0.10)
Tobacco thrips	
Boll weevil	6.4 to 16.0
Bollworm	(0.04 to 0.10)
Cabbage looper	
Cotton aphid	
Cotton flea hopper	
Cotton leaf perforator	
Cutworms Fall armyworms	
Plant bugs	
Saltmarsh caterpillar	
Southern garden leafhopper	
Stink bugs	
Tobacco budworm	
Yellowstriped armyworm	
Beet armyworm	9.6 to 16.0
Carmine spider mite	(0.06 to 0.10)
Lygus spp.	
Pink B bollworm	
Two-spotted spider mite	
Whitefly	

INSTRUCTIONS:

Apply in a minimum of 10 gallons per acre by ground or 2 gallons per acre by air.

To control boll weevil: apply at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels.

To control mites and aphids, apply when pests first appear. Repeat as necessary to maintain control. Higher rates will be required once a damaging threshold is established.

Do not apply more than 0.5 lb a.i. per acre per season.

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

PHI: Do not apply within 14 days of harvest.

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

CURCUBITS: Chayote (fruit), Chinese waxgourd, Citron melon, Cucumber, Gherkin, Gourd (edible: Luffa spp, Momordica spp.), Muskmelon, Pumpkin, Squash (summer), Squash (winter), Watermelon

PEST	DOSAGE oz/A (lb a.i./A)
Grubs Maggot Wireworm	8.0 to 16.0 (0.05 to 0.10)
Aphids Armyworms Cabbage looper Corn earworm Cucumber beetles Cutworms Grasshopper Leafhoppers Melonworm Pickworm Plant bug Rindworm Squash bugs Squash vine borer Stink bugs Tobacco budworm	8.0 to 16.0 (0.05 to 0.10)
Banks grass mite Carmine mite Lygus bugs Two-spotted spider mite Whitefly	12.8 to 16.0 (0.08 to 0.10)

INSTRUCTIONS:

Planting time use for wireworm, maggot, or grubs, apply in-furrow with the seed or transplant.

Foliar use: Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 20 gallons per acre by ground. Thorough coverage is essential to achieve control.

Do not apply more than 0.3 lb ai per acre per season including at-plant applications.

Do not make more than 2 applications after bloom.

Do not make applications less than 7 days apart.

PHI: Do not apply within 3 days of harvest.

FRUITING VEGETABLES: Eggplant, Pepper (Bell and non-Bell), Groundcherry, Pepino

PEST	DOSAGE oz/A (lb a.i./A)
Armyworms Cabbage looper Colorado potato beetle Corn earworm Cucumber beetle Cutworms European corn borer Flea beetles Leafminers Loopers Pepper weevil Plant bug Stink bug Thrips Tomato pinworm Tomato hornworm Vegetable leafminer Whitefly	5.3 to 12.8 (0.033 to 0.08)
Banks grass mite Broad mite Carmine mite Lygus spp. Pacific spider mite Two-spotted spider mite	12.8 (0.08)

INSTRUCTIONS:

Apply in a minimum of 2 gallons per acre by air or in a minimum of 10 gallons per acre by ground. When applying by air 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

Do not make applications less than 7 days apart.

Do not apply more than 0.2 lb a.i. per acre per season.

PHI: Do not apply within 7 days of harvest.

FRUITING VEGETABLES: Tomato, Tomatillo

PEST	DOSAGE oz/A (lb a.i./A)
Grubs Maggots Wireworms	8.0 to 12.8 (0.05 to 0.08)
Aphids Armyworms Bean leaf beetle Beet armyworm Cabbageworm Carmine mite Cloverworm Corn earworm Corn rootworm Cucumber beetles Cutworms Diamondback moth European corn borer Fall armyworm Flea beetles Flea hopper Grasshopper Japanese beetles (adult)	5.3 to 12.8 (0.033 to 0.08)

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Leafhoppers	
Loopers	
Lygus spp.	
Melonworm	
Pea weevil	
Pea leaf weevil	
Pickleworm	
Plant bug	
Rindworm	
Salt marsh caterpillar	
Sap beetles	
Seedpod beetle	
Southern armyworm	
Squash bugs	
Stink bugs	
Tobacco budworms	
Tarnished plant bug	
Thrips	
Two-spotted spider mite	
Whitefly	
Yellow striped armyworm	

INSTRUCTIONS:

Planting time use for wireworm, maggot, or grubs, apply in-furrow with the seed or transplant.

Apply in water as necessary for insect control using a minimum of 15 gallons per acre by ground or 5 gallons per acre by air.

Thorough coverage is essential to achieve control.

Do not make applications less than 10 days apart.

A maximum of 4 applications may be applied per season.

PHI: Do not apply within 1 day of harvest.

GRAPES

PEST	DOSAGE oz/A (lb a.i./A)
Cutworm	8.0 to 16.0 (0.05 to 0.10)
Eastern grape leafhopper	
Grape berry moth	
Japanese beetle adults	
Variiegated leafhopper	
Western grape leafhopper	
Black vine weevil	16.0 (0.10)
Glassywinged sharpshooter	
Two-spotted spider mite	

INSTRUCTIONS:

Apply in a minimum of 10 gallons per acre by air or in a minimum of 25 gallons per acre by ground. Thorough coverage is essential to achieve control.

Do not apply more than 0.10 lb a.i. per acre per season.

PHI: Do not apply within 30 days of harvest.

HOPS

PEST	DOSAGE oz/A (lb a.i./A)
Aphids	9.6 to 16.0 (0.06 to 0.1)
Armyworms	
Cutworms	
Leafrollers	

Loopers	
Root weevil	8.0 to 16.0 (0.05 to 0.10)
Two-spotted spider mite	16.0 (0.10)

INSTRUCTIONS:

Application by ground: For best results, full coverage is essential. Early season use 100-150 gallons of spray per acre. Late season use 200-250 gallons of spray per acre.

Application by air for late season control of two-spotted spider mite: Apply no less than 0.1 lb a.i. per acre per application in a minimum of 10 gallons per acre.

Do not apply more than 0.10 lb a.i. per acre per application.

Do not apply more than 0.30 lb a.i. per acre per season.

Do not make applications less than 21 days apart.

PHI: Do not apply within 14 days of harvest.

LETTUCE, HEAD

PEST	DOSAGE oz/A (lb a.i./A)
Aphids	5.3 to 16.0 (0.033 to 0.10)
Armyworms	
Corn earworm	
Cucumber beetle	
Cutworms	
Diamondback moth	
Flea beetles	
Imported cabbageworm	
Leafhoppers	
Loopers	
Saltmarsh caterpillar	
Stink bugs	
Tobacco budworm	
Lygus spp.	
Carmine mite	
Two-spotted spider mite	
Whitefly	

INSTRUCTIONS:

Apply in a minimum of 20 gallons per acre by ground and 5 gallons per acre by air. Thorough coverage is essential to achieve control.

Do not make applications less than 7 days apart.

Do not apply more than 0.5 lb a.i. per acre per season.

PHI: Do not apply within 7 days of harvest.

MAYHAW

PEST	DOSAGE oz/A (lb a.i./A)
Plum curculio	12.8 to 16.0 (0.08 to 0.10)

INSTRUCTIONS:

Apply in a minimum of 28 gallons per acre.

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Do not apply less than 7 days apart.

Do not apply more than 0.20 lb a.i. per acre per season.

PHI: Do not apply within 30 days of harvest.

PEARS

PEST	DOSAGE oz/A (lb a.i./A)
Aphids Codling moth Cutworms Green fruitworm Leafhoppers Leafrollers Lygus spp. Plant bugs Plum curculio San Jose scale Stink bugs Tarnished plant bugs	6.4 to 32.0 (0.04 to 0.20)
Yellow spider mite	9.6 to 32.0 (0.06 to 0.20)
European red mite Two-spotted spider mite	12.8 to 32.0 (0.08 to 0.20)

INSTRUCTIONS:

Apply as a dilute spray in a minimum of 200 gallons per acre, or as a concentrated spray in a minimum of 50 gallons per acre. Apply in a minimum of 10 gallons per acre by air. Thorough coverage is essential to achieve control.

Do not apply more than 0.50 lb a.i. per acre per season.

And, do not apply more than 0.45 lb a.i. per acre after petal fall.

Apply as necessary to maintain control, but do not apply less than 30 days apart.

PHI: Do not apply within 14 days of harvest.

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

ROOT CROPS (except Sugar Beets): Burdock (edible), Carrot, Celerac, Chervil (turnip rooted), Chicory, Ginseng, Horseradish, Parsley (turnip rooted), Parsnip, Radish, Oriental radish, Rutabaga, Salsify, Black salsify, Spanish salsify, Skirret, Turnip

PEST	DOSAGE oz/A (lb a.i./A)
Aphids Beet armyworm Celery leaf-tier Corn earworm Cross-striped cabbageworm Cutworms Diamondback moth European corn borer Fall armyworm Fire ants Flea beetles Green cloverworm Hornworms Imported cabbageworms	12.8 to 16.0 (0.08 to 0.10)

Loopers Southern armyworm Spider mites Tobacco budworm Velvetbean caterpillar Whitefly Yellow-striped armyworm.	
GARDEN BEET	
Aphids Flea beetles Fire ants Lepidopteran larvae Spider mites Whitefly	12.8 to 16.0 (0.08 to 0.10)

INSTRUCTIONS:

Apply in a minimum of 25 gallons per acre.

Do not make applications less than 7 days apart.

For garden beets, do not apply more than 0.40 lb a.i. per acre per season. For all other crops, do not apply more than 0.50 lb a.i. per acre per season

PHI: For garden beets do not apply within 1 day of harvest. For all other crops, do not apply within 21 days of harvest.

SOYBEANS

PEST	DOSAGE oz/A (lb a.i./A)
Alfalfa caterpillar Aphids Aster leafhopper Bean leaf beetles Beet armyworm Cloverworm Corn earworm Corn rootworm adult Cucumber beetle Cutworms European corn borer Fall armyworm Flea beetles Grasshoppers Imported cabbageworm Japanese beetle adult Leafhoppers Leafminer Loopers Mexican bean beetle adult Pea eaf weevil Pea weevil Plant bug Saltmarsh caterpillar Sap beetles Southern armyworm Stink bugs Tarnished plant bugs Thrips Tobacco budworm Webworms Western bean cutworm Yellowstriped armyworm	5.3 to 16.0 (0.033 to 0.100)
Lygus spp. Two-spotted spider mites Whitefly	12.8 to 16.0 (0.08 to 0.10)

INSTRUCTIONS:

Apply in a minimum of 10 gallons per acre by ground or 2 gallons per acre by air.

Do not make applications less than 30 days apart.

Do not apply more than 0.30 lb a.i. per acre per season.

Pyrethroid resistance is common in Beet armyworm and Tobacco budworm. Consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so, consult the resistance statement on this label.

PHI: Do not apply within 18 days of harvest.

SPINACH

PEST	DOSAGE oz/A (lb a.i./A)
Armyworms Colorado potato beetle Corn earworm Cucumber beetles Cutworms European corn borer Flea beetles Leafminers Loopers Pepper weevil Thrips Tomato pinworm Tomato hornworm	5.3 to 16.0 (0.033 to 0.10)
Banks grass mite Broad mite Carmine mite Fire ants Lygus spp. Pacific spider mite Two-spotted spider mite Whitefly	12.8 to 16.0 0.08 to 0.10)

INSTRUCTIONS:

Apply in a minimum of 10 gallons per acre, but up to 50 gallons per acre, by ground and a minimum of 5 gallons per acre, but up to 50 gallons per acre by air. Thorough coverage is essential to achieve control.

For control of fire ants, apply to the soil at planting, or as a foliar treatment, by ground or air at rates up to 0.1 lb a.i. per acre at minimum 7 days intervals up to a maximum of four applications.

For control of whiteflies apply foliar treatments by ground or air at rates up to 0.1 lb a.i. per acre at minimum 7 day intervals up to a maximum of 4 applications.

Do not apply more than 0.40 lbs a.i. per acre per season.

Do not make applications less than 7 days apart.

PHI: Do not apply within 40 days of harvest.

SUCCULENT PEAS AND BEANS: Peas (*Pisum spp.* Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea), Pigeon peas, Beans (*Phaseolus spp.* Broadbean-succulent, Lima bean-green, Runner bean, Snap bean, Wax bean), Beans (*Vigna spp.* Asparagus bean, Blackeyed pea, Chinese longbean, Cowpea, Mothbean, Southern pea, Yardlong bean, Jackbean, Soybean (immature seed), Sword bean

PEST	DOSAGE oz/A (lb a.i./A)
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Grubs Maggot Wireworm	8.0 to 16.0 (0.05 to 0.10)
Aster leafhopper Flea beetle Grasshoppers Leafhoppers	4.0 to 16.0 (0.025 to 0.10)
Adult sap beetles Alfalfa caterpillar Aphids Bean leaf beetle Beet armyworm Cloverworm Corn earworm Corn rootworm adult Cucumber beetles Cutworms European corn borer Fall armyworm Japanese beetles Loopers Pea weevil Pea leaf weevil Plant bug Southern armyworm Stink bugs Tarnished plant bug Thrips Webworms Western bean cutworm Yellow-striped armyworm	5.3 to 16.0 (0.033 to 0.10)
Banks grass mite Carmine mite Lygus spp. Two-spotted spider mite Whitefly	12.8 to 16.0 (0.08 to 0.10)

INSTRUCTIONS:

Planting time use for wireworm, maggot, or grubs, apply in-furrow with the seed or transplant.

Foliar use: Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre by ground. Thorough coverage is essential to achieve control.

Do not apply more than 0.2 lb ai per acre per season including at-plant applications.

PHI: Do not apply within 3 days of harvest.

TREE NUT CROPS: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinaquin, Filbert (hazelnut), Hickory nut, Macadamia nut, Pecan, Pistachio, Walnut (Black and English)

PEST	DOSAGE oz/A (lb a.i./A)
Black bean aphid Codling moth Filbert worm Hickory shuckworm Leaf-footed bugs Navel orangeworm Oblique banded leafroller Peach twig borer Pecan leaf casebearer Pecan nut casebearer	8.0 to 32.0 (0.05 to 0.20)

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READ BEFORE USING PRODUCT

Pecan phylloxera Plant bugs Stink bugs Walnut aphid Yellow pecan aphid	
European red mite Pecan weevil Spider mites	12.8 to 32.0 (0.08 to 0.20)
Fire ants Walnut husk fly	16.0 to 32.0 (0.1 to 0.2)

INSTRUCTIONS:

Application by ground : Apply as a dilute spray in a minimum of 200 gallons per acre, or as a concentrated spray in a minimum of 50 gallons per acre. Apply in a minimum of 10 gallons per acre by air. Thorough coverage is essential to achieve control.

Apply as necessary to maintain control, but do not apply less than 15 days apart.

Do not apply more than 0.5 lb a.i. per acre per season.

PHI: For pecans, do not apply within 21 days of harvest. For all other crops, do not apply within 7 days of harvest.

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

STORAGE AND DISPOSAL

Pesticide Storage

Keep out of reach of children and animals. Store in original containers only. Store in a cool dry place and avoid excess heat. Do not store at temperatures below 32°F (0°C). Allow to warm above 50°F (10°C) before use. Do not put concentrate or diluted material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call Vive Crop Protection: +1-416-260-8889.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

Pesticide wastes are toxic. 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 Disposal: Non-refillable container

Do not reuse or refill this container. Outer container contents formulated product and it must be triple rinsed with clean water. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and close tightly. 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.

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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.

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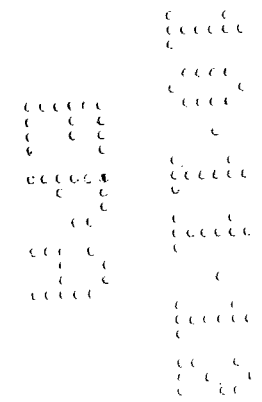
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IMPORTANT INFORMATION

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