

279-3302

02/23/2009

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

February 23, 2009

Christopher Davis  
FMC Corp.  
1735 Market Street  
Philadelphia, PA 19103

Subject: Amendment – Response to Agency’s August 28, 2008 letter  
Capture LFR Insecticide  
EPA Reg. No. 279-3302  
Your submission dated February 13, 2009

Dear Mr. Davis:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

1. Update the label as required under the Agency’s February 21, 2008 letter concerning “Spray Drift Language for Pyrethroid Agricultural Use Products”.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

If you have any questions regarding this action, please contact BeWanda Alexander at (703) 305-7460.

Sincerely,  
*BeWanda Alexander for*  
Richard Gebken  
Interim Product Manager 13  
Insecticide Branch  
Registration Division (7505P)

Enclosure

**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 applicator's certification.

# Capture® LFR™

## Insecticide

For Mixing directly with liquid fertilizer to control soil insect pests

EPA Reg. No. 279-3302

EPA Est. No. 279-NY-1

**Active Ingredient:**

Bifenthrin: (2 methyl[1,1'-biphenyl]-3-yl)  
methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-  
2,2-dimethyl-cyclopropanecarboxylate\*

**By Wt.**

Other Ingredients:..... 17.15%  
..... 82.85%  
..... 100.0%

\*\*Cis isomers 97% minimum, trans isomers 3% maximum.  
This product contains 1.5 lbs active ingredient per gallon  
U.S. Patent No. 4,238,505

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
FEB 23 2009**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
279-3302

**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.)

See other panels for additional precautionary information.

FIRST AID	
<b>If Swallowed:</b>	-Call a poison control center or doctor immediately for treatment advice. -Do not give any liquid to the person. -Do not induce vomiting unless told to do so by a poison control center or doctor. -Do not give anything by mouth to an unconscious person.
<b>If in Eyes:</b>	-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.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.	
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.	
For Emergency Assistance Call (800) 331-3148.	

**FMC Corporation  
Agricultural Products Group  
Philadelphia, PA 19103**

**Net Contents:**

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans (and Domestic Animals)**

**Warning**

May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

**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.

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 interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.  
 Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, and Shoes plus socks.

**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.

Do not apply to soil where there is greater than 30% cover of crop residue remaining.

**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 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.

## **STORAGE AND DISPOSAL**

### **Pesticide Storage**

If storing this product below freezing, user should shake or roll the container to ensure proper product consistency. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute 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 FMC: 1-(800)-331-3148. 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**

Metal or Plastic Container: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers. U-Turn® Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

## **Application Instructions**

Capture LFR is an at-plant insecticide that contains 1.5 pounds of bifenthrin per gallon. Capture LFR can be mixed directly with liquid fertilizer, or with water, and placed into the root zone to provide soil insect control. Fill the tank one-half full with liquid fertilizer or water, add the proper amount of Capture LFR, and then add the rest of the fertilizer or water.

**Shake Well.** Capture LFR is a suspension concentrate formulation and should be shaken well prior to mixing and measuring.

Rate of application is variable according to pest. Use lower rates under light to moderate infestations; higher rates under heavy insect pressure. Arid climates generally require higher rates.

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

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

Capture LFR can be applied in-furrow with the seed, as a T-band (band over the open furrow), as a broadcast application, as a band over the row or as a transplant-water drench during setting. Refer to the table below for pest control or suppression recommendations.

Capture LFR can be mixed with commonly used liquid starter or pop-up fertilizers. Follow liquid fertilizer recommendations regarding seed safety and use guidelines. It is recommended that a preliminary jar test be conducted using appropriate ratios of fertilizer and Capture LFR. It is not recommended to allow a tank mixture to set overnight, but if this occurs agitate tank mixture prior to application.

## **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**

Capture LFR may be applied in tank mixtures with other soil applied 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.

## **Spray Drift Precautions**

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

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.**

Do not apply by ground equipment within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm pond. Use of ultra low volume (ULV) application on corn is prohibited.

Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

Make ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Except when making t-band or in-furrow applications, do not apply when wind velocity exceeds, or gusts approach, 15 mph.

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Do not cultivate within 10 feet of the aquatic area so as to allow growth of a vegetative filter strip. Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature, except when making t-band or in-furrow applications.

Do not make ground applications during temperature inversions. Do not make ground applications to corn if heavy rainfall is imminent. 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.

**CORN (AT PLANT USE)**

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Field Corn (Grain and Silage) Popcorn Field Corn Grown for Seed Sweet Corn Sweet Corn Grown for Seed	Corn Rootworm Larvae (Northern, Southern and Western)	0.0046 to 0.0057	0.39 to 0.49	6.8 to 8.5	0.08 to 0.10	Apply as a 5-7 inch band (T-band) over an open furrow, or in-furrow with the seed.
	Wireworm Grubs Seed Corn Maggot Stalkborer Root Aphids	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed.
	Army Cutworm Cutworm Species True Armyworm or Armyworm species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
<p>Do not apply more than 0.1 pound active per acre per season as an at-plant application.            Do not apply more than 0.3 pound active per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC)            Use of Capture LFR is prohibited in all coastal counties.</p>						

**CORN (PRE & PPI)**

CROP	PEST	DOSAGE		REMARKS
Field Corn (Grain and Silage) Popcorn Field Corn Grown for Seed Sweet Corn Sweet Corn Grown for Seed	Black Cutworm White Grub Wireworm Seedcorn Maggot Armyworm spp. Stalkborer	0.047 to 0.062 LB AI/A Pre-Plant Incorporated (PPI)	4 to 5.3 FL OZ/A Pre-Plant Incorporated (PPI)	The 4 - 5.3 oz/A rate must be applied as PPI and can be tank mixed and applied with PPI herbicides. Incorporation of Capture should not be any deeper than the intended planting depth and no deeper than 3 inches. Incorporation depth should be close to the intended seed planting depth.
	Black Cutworm Armyworm spp. Stalkborer	0.040 LB AI/A Pre-Emergence (PRE)	3.4 FL OZ/A Pre-Emergence (PRE)	The 3.4 oz/A rate may be applied PRE and can be tank mixed and applied with PRE herbicides.

**SUCCULENT PEAS AND BEANS**

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Pea ( <i>Pisum</i> spp.): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea Pigeon pea Bean ( <i>Phaseolus</i> spp.): Broadbean (succulent) Lima bean (green) Runner bean, Snap bean, Wax bean Bean ( <i>Vigna</i> spp.): Asparagus bean, Blackeyed pea Chinese longbean, Cowpea, Moth bean, Southern pea Yardlong bean Jackbean Soybean (immature seed) Sword bean	Wireworm Grubs Seedcorn Maggot	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed.
	Cutworm Species True Armyworm or Armyworm species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
	Alfalfa Looper Cucumber Beetles Japanese Beetles Grasshoppers Plantbugs Bean Leaf Beetle Adult Sap Beetle Alfalfa Caterpillar Green cloverworm Loopers Thrips Webworms Pea weevil Pea Leaf weevil Whiteflies European Corn Borer Western Bean Cutworm Corn Earworm Corn Rootworm Adults  *Aphid species					Broadcast over the entire acre on the soil surface.

Do not apply more than 0.1 pound active per acre per season as an at-plant application.  
Do not apply more than 0.2 pound active per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC).  
\*See resistance statement under "Directions for Use" section.

**BRASSICAS**

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Head and Stem Brassica Vegetables including: Broccoli Chinese Broccoli (gailon, white flowering broccoli) Brussels Sprouts Cauliflower Cavalo broccolo Kohlrabi Cabbage Chinese Cabbage (napa) Chinese Mustard Cabbage (gai choy)	Wireworm Grubs Seedcorn Maggot Cabbage Maggot Root Maggots Root Aphids	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed or transplant.
	Cutworm Species True Armyworm or Armyworm species Flea Beetles Stinkbug Imported Cabbageworm Crickets Ground Beetles Thrips Salt March Caterpillar Wireworm Adults Diamondback Moth *Aphid species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface or banded over the row.
<p>Do not apply more than 0.1 pound active per acre per season as an at-plant application.            Do not apply more than 0.5 pound active per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC).            *See resistance statement under "Directions for Use" section.</p>						

**CUCURBITS**

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Citron melon Cucumber Gherkin Gourd, edible (includes hyotan, cucuzza)	Wireworm Grubs Seedcorn Maggot Flea Beetle Larvae Root Aphids Melonworm Pickleworm Stinkbugs	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed or transplant.



<p>(<i>Luffa</i> spp.) (includes hechima, Chinese okra) (<i>Momordica</i> spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber) Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i>) (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 (<i>Cucurbita</i> spp.) Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini) Squash, winter (includes butternut squash, calabaza, hubbard squash (<i>C. mixta</i>; <i>C. pepo</i>) includes acorn squash, spaghetti squash) Watermelon (includes hybrids and/or varieties of <i>Citrullus</i> spp.).</p>	<p>Cutworm Species True Armyworm or Armyworm species Cucumber Beetle Complex Leafhoppers Squash Vine Borers (Adults) Mites Pickleworm Cabbage Looper *Aphid species</p>	<p>0.0023 to 0.0046</p>	<p>0.20 to 0.39</p>	<p>3.4 to 6.8</p>	<p>0.04 to 0.08</p>	<p>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 over the entire acre on the soil surface.</p>
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Do not apply more than 0.1 pound active per acre per season as an at-plant application.  
Do not apply more than 0.3 pound active per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC).  
\*See resistance statement under "Directions for Use" section.

### HEAD LETTUCE

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Head Lettuce	Grubs Root Maggot Lettuce Root Aphids	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed.
	Amy Cutworm Cutworm Species True Armyworm or Armyworm species Bulb Mites Leafhoppers Tarnished Plantbug Corn Earworm Imported cabbage worm *Aphid species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
<p>Do not apply more than 0.1 pound active per acre per season as an at-plant application.            Do not apply more than 0.5 pound active per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC).            *See resistance statement under "Directions for Use" section.</p>						

### EGGPLANT

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Eggplant	Wireworm Grubs Root Maggot	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed.
	Amy Cutworm Cutworm Species True Armyworm or Armyworm species Colorado Potato Beetle Flea Beetle European Corn Borer Hornworms Leafhopper *Aphid species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
<p>Do not apply more than 0.1 pound active per acre per season as an at-plant application.            Do not apply more than 0.2 pound active per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC).            *See resistance statement under "Directions for Use" section.</p>						

**PEPPERS (BELL and NON-BELL)**

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Peppers, Bell and Non-Bell	Corn Rootworm Larvae (Northern, Southern and Western)	0.0046 to 0.0057	0.39 to 0.49	6.8 to 8.5	0.08 to 0.10	Apply as a 5-7 inch band (T-band) over an open furrow, or in-furrow with the seed.
	Wireworm Grubs Root Maggot Stalk Borer Flea Beetle Larvae Pepper Maggot Root Aphids	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed.
	Army Cutworm Cutworm Species True Armyworm or Armyworm species Colorado Potato Beetle Flea Beetle European Corn Borer Hornworms Leafhopper *Aphid species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
<p>Do not apply more than 0.1 pound active per acre per season as an at-plant application.            Do not apply more than 0.2 pound active per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC)            *See resistance statement under "Directions for Use" section.</p>						

**TOMATOES**

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Tomato						
	Wireworm Grubs Flea Beetle Larvae	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed.

	Army Cutworm Cutworm Species True Armyworm or Armyworm species Colorado Potato Beetle Flea Beetle European Corn Borer Hornworms Leafhopper *Aphid species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
<p>Do not apply more than 0.1 pound active per acre per season as an at-plant application. Do not apply more than 0.32 pound active per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC) *See resistance statement under "Directions for Use" section.</p>						

**SPINACH**

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Spinach	Wireworm Grubs Root Maggot	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in- furrow with the seed.
	Army Cutworm Cutworm Species True Armyworm or Armyworm species Leafhopper Mites *Aphid species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
<p>Do not apply more than 0.1 pound active per acre per season as an at-plant application. Do not apply more than 0.4 pound active per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC). *See resistance statement under "Directions for Use" section.</p>						

**OKRA**

Crop	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Okra	Wireworms Armyworms Cutworms Flea Beetle Larvae	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
Do not apply more than 0.1 pound active per acre per season as an at-plant application.						
Do not apply more than 0.20 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC).						

**CILANTRO, CORIANDER**

Crop	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Cilantro, Coriander	Wireworms Armyworms Cutworms Flea Beetle Larvae	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
Do not apply more than 0.1 pound active per acre per season as an at-plant application.						
Do not apply more than 0.50-pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC).						

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**DRIED BEANS AND PEAS**

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
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	Corn Rootworm Larvae (Northern, Southern and Western)	0.0046 to 0.0057	0.39 to 0.49	6.8 to 8.5	0.08 to 0.10	Apply as a 5-7 inch band (T-band) over an open furrow, or in-furrow with the seed.
	Wireworm Grubs Seedcorn Maggot Root Maggot	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed.
	Army Cutworm Cutworm Species True Armyworm or Armyworm species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) to peas, or 0.3 active ingredient (19.2 ounces formulated) to beans per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC)..						
Do not apply more than 0.1 pound active per acre per season as an at-plant application.						

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**LEAFY BRASSICAS**

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Broccoli Raab Bok Choy Collards Kale Mizuna Mustard Greens Mustard Spinach Rape Greens	Corn Rootworm Larvae (Northern, Southern and Western)	0.0046 to 0.0057	0.39 to 0.49	6.8 to 8.5	0.08 to 0.10	Apply as a 5-7 inch band (T-band) over an open furrow, or in-furrow with the seed.
	Wireworm Grubs Seedcorn Maggot Root Maggot	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	Apply as a 5-7 inch band over an open furrow (T-band), or in-furrow with the seed.
	Army Cutworm Cutworm Species True Armyworm or Armyworm species	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	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 over the entire acre on the soil surface.
Do not apply more than 0.1 pound active 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 applications of other bifenthrin products (such as Capture 2EC).						

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### TUBEROUS AND CORM VEGETABLES

CROP	PEST	DOSAGE		REMARKS
		LBS A/A	FL OZ/A	
Potato Sweet potato Arracacha Arrowroot Chinese artichoke Jerusalem artichoke Edible canna Cassava (bitter and sweet) Chayote (root) Chufa Dasheen (taro) Ginger Leren Tanier Turner Yam bean True yam	Corn wireworm Tobacco wireworm  Southern potato wireworm Japanese beetle grubs Flea beetle Larvae White grub Sugarcane beetle Rootworms	0.30 (at-plant)  0.05 to 0.15 (lay-by)	25.5 (at-plant)  4.2 to 12.75 (lay-by)	Capture LFR may be applied as an in-furrow planting time treatment for the control of wireworms, rootworms and white grubs. Apply Capture LFR at the rate of 0.3 pounds active per acre as an in-furrow spray or T-band spray at planting time.  Capture LFR may be applied as a lay-by treatment for the control of wireworms, rootworms and white grubs. Apply Capture LFR to the drill area and cover with soil utilizing cultivation equipment set to throw soil to the drill area. Apply Capture as a banded spray over the row at a rate of 0.05-0.15 pounds active per acre (3.2 to 9.6 ounces formulated) in 10 gallons per acre of spray.  Do not apply more than 0.5 lb. active ingredient per acre per season.
Do not apply more than 0.3 pound active per acre per season as an at-plant application.				
Do not apply more than 0.50 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products (such as Capture 2EC).				

### TOBACCO (AT-TRANSPLANT/PRE-TRANSPLANT)

CROP	PEST	DOSAGE				REMARKS
		Pounds active/1000 linear feet of row	Fluid ounces/1000 linear feet of row	Fluid ounces/acre	Pounds active/acre	
Tobacco	Cutworm ssp. Tobacco Flea Beetle (larvae) White Grubs Wireworms Mole Crickets Armyworm spp. Stalkborers	0.0023 to 0.0046	0.20 to 0.39	3.4 to 6.8	0.04 to 0.08	<b>Pre-transplant soil applications:</b> Use of suitable equipment to incorporate into top 4" of the soil is required to control below ground pests.  <b>At-transplant water treatment application:</b> Apply 0.0625- 0.1 lb ai/A in a water treatment application volume of 10-200 gal/A.
Do not apply more than 0.2 lb ai/A per season.						
Do not apply later than layby.						
May be tank mixed with Command, Spartan and other herbicides approved for tobacco use.						



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**TOBACCO (FOLIAR)**

CROP	PEST	DOSAGE		REMARKS
		LBS ai/A	FL OZ/A	
Tobacco	*Aphid spp. Armyworm spp. Chinch Bugs Cucumber Beetle Cutworm spp. Flea Beetle (Adults) Grasshoppers Green Bugs Japanese Beetles Loopers Saltmarsh Caterpillar Stink Bugs Tarnished Plant Bugs Thrips Tobacco Budworm Tobacco Hornworm Whiteflies	0.04- 0.10	3.4 – 8.5	<b>Foliar applications:</b> Apply 0.04- 0.10 lb ai/A per foliar application up to, and including, layby in a minimum of 10 gal/A. Do not make more than 2 foliar applications per season.
	Spider mites Lygus spp.	0.1	8.5	
<p>Do not apply more than 0.2 lb ai/A per season.</p> <p>Do not apply later than layby.</p> <p>May be tank mixed with Command, Spartan and other herbicides approved for tobacco use.</p> <p>*See resistance statement under "Directions for Use" section.</p>				

**LEAFY PETIOLE VEGETABLES (FOLIAR)**

CROP	PEST	DOSAGE		REMARKS
		LB/AI/A	FL OZ/A	
Celery Cardoon Chinese celery Celtuce Florence fennel Rhubarb Swiss chard	Cutworms Corn Earworm Tobacco Budworm Saltmarsh Caterpillar Leafhoppers Flea Beetles Imported Cabbageworm Cucumber Beetles Aphids Whitefly Armyworms Loopers Stink Bugs Crickets Ground Beetles Thrips Wireworm (adults) Diamondback Moth	0.04 - 0.10	3.4 – 8.5	<p>Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. Thorough coverage is essential to achieve control.</p> <p>Do not apply more than 0.5 lb. active ingredient per acre per season.</p> <p>Do not make applications less than 7 days apart.</p> <p>Do not apply within 7 days of harvest.</p>
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	0.08 - 0.10	6.8-8.5	

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**BUSHBERRIES (FOLIAR)**

CROP	PEST	DOSAGE		REMARKS
		LB/AI/A	FL OZ/A	
Blueberry, highbush and lowbush Currant Elderberry Gooseberry Huckleberry	Blueberry maggot, Fruitworms, Lecanium scale (crawlers) Plum curculio Obliquebanded leaf roller Red band ed leafroller Variegated leafroller Spanworm Leafhoppers Aphids	0.04 - 0.10	3.4 - 8.5	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. Thorough coverage is essential to achieve control.  Do not apply more than 0.5 lb. active ingredient per acre per season.  Do not make applications less than 7 days apart.  Do not apply within 1 day of harvest.
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	0.08 - 0.10	6.8-8.5	

**Dealers Should Sell in Original Packages Only.**

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