

86363-1

12/8/2009

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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:
86363-1
Date of Issuance:
DEC 8 2009

Term of Issuance:
Conditional

Name of Pesticide Product:
BIFEN 25% EC
Insecticide/Miticide

NOTICE OF PESTICIDE:

Registration
 Reregistration

(Under FIFRA as amended)

Name and Address of Registrant (include ZIP Code):

Kaizen Technologies
410 N Boylan Avenue
Raleigh, NC 27603

~~Note: Changes in labeling/differentiating a 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 **conditionally** registered in accordance with FIFRA sec. 3(c)(7)(A), provided that:

1. You will submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. 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. 86363-1."
 - b) Revise Precautionary Statements to read as follows:

 "May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if absorbed through skin. 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. Remove and wash contaminated clothing before reuse"
 - c) On page 6 move, the statements beginning "All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers. OBSERVE THE FOLLOWING PRECAUTIONS etc" and ending ".... Use of ultra low volume (ULV) application on corn and hops is prohibited" to the *Applications Instructions - Food Crops* section.

Signature of Approving Official:

Richard Gebken
Richard Gebken Interim Product Manager 13
Insecticide Branch/Registration Division (7505P)

Date:

December 8, 2009

- d) Revised the spray drift language as follows:
 - a. Delete “Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area” from the *Wind Direction and Speed* section.
 - b. Delete “Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas” and “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” from the *Droplet Size* section.
 - c. Add “Additional Requirement for” to the front of “Ground Application” (Additional Requirement for Ground Application). Also add “Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application” following the heading (Additional Requirement for Ground Application).
 - d. Add “Additional Requirement for” to the front of “Aerial Application” (Additional Requirement for Aerial Application).
- e) Under *Caneberries*, delete the application instructions for “Crown Borer”.
- f) Under *Citrus*, delete the pests “Fire Ant” and “Asian Cockroach”. There wasn’t any data cited or submitted to support these uses. Also replace “... etc. apply in a minimum of 40 gallons of dilute spray per acre” with “... etc. apply in a minimum of 30 gallons of dilute spray per acre” and “Apply the specified dosage in a minimum of 40 gallons of finished spray per acre” with “Apply the specified dosage in a minimum of 30 gallons of finished spray per acre”.
- g) Under *Cotton*, Application Instructions, replace “ULV Application: Apply the recommended rate of Bifen 25% EC in refined ... etc” with “ULV Application: Apply the listed rate of Bifen 25% EC in refined ... etc”.
- h) Under *Dried Beans and Peas*, Restrictions, replace “Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated product) to peas, or 0.3 lb. active ingredient (19.2 ounces formulated product) to beans per acre per season” with “Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated product) to beans per acre per season”.
- i) On page 17, separate the *Tomato* table from the *Fruiting Vegetables* table.
- j) Under *Leafy Brassicas*, delete “collards”. This use isn’t cited on the me-too product label.
- k) Under *Mayhaw*, *Soybean* and *Peanut*, replace “foliar treatment” with “ground application” in the Application Instructions sections.

- l) On page 22, add “(except Sugar Beets)” to “Root Crops”. Also separate the *Root Crops (except Sugar Beets)* table from the *Garden Beet* table.
 - m) Under *Spinach*, delete “Fire Ants” and fire ants application instructions.
 - n) Replace “The Directions for Use of this product should be followed carefully” with “The Directions for Use of this product must be followed carefully”.
3. Please submit three (3) 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.

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Bracketed Text [] - Optional Marketing Statements

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 the uses covered by the certified applicator's certification.

BIFEN 25% EC

Insecticide/Miticide

[For use to control listed insects and mites on artichokes, brassicas, caneberries, canola, cilantro, citrus, coriander, corn, cotton, crambe, cucurbits, dried beans and peas, fruiting vegetables, grapes, head lettuce, hops, leafy brassicas, mayhaw, okra, peanuts, pears, rapeseed, root crops, soybeans, spinach, succulent peas and beans, tobacco, and tuberous and corn vegetables.]

[<PRODUCT NAME> contains Bifenthrin, the active ingredient used in <BRAND NAME>™ or ®.]
 [<PRODUCT NAME> is not manufactured or distributed by <BASIC REGISTRANT /
 BRAND HOLDER>, seller of <BRAND>™ or ®.]
 [<BRAND>™ or ® is a trademark of <TRADEMARK HOLDER>.]

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*.....	25.0%
OTHER INGREDIENTS**:	75.0%
TOTAL	100.0%

*Cis isomers 97% minimum, trans isomers 3% maximum.
 **Contains xylene range aromatic solvents.
 This product contains 2 pounds active ingredient per gallon.

ACCEPTED
with COMMENTS
In EPA Letter Dated
DEC 8 2009
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under EPA Reg. No.
86363-1

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).

[See [side] [other] [inside label booklet] [panel] for additional precautionary statements.]

EPA Reg. No. 86363-

EPA Est. No. XXXXX-XX-XXX

Net Contents: _____

Formulated For:
 Kaizen Technologies
 1555 Main Street
 Suite A3-206
 Windsor, CO 80550

120409

FIRST AID	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For a medical emergency involving this product call: 1-800-222-1222.	
IF SWALLOWED:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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.
IF INHALED:	<ul style="list-style-type: none"> • 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.
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 should be avoided. This product contains a petroleum distillate; vomiting may cause aspiration pneumonia.	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING**

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if inhaled or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear:

- Long-sleeved shirt and long pants, or coveralls worn over short-sleeved shirt and short pants.
- Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber, or viton
- Chemical resistant footwear plus socks

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber, or viton
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical resistant apron when mixing and loading and cleaning equipment

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.

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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.

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 Bifen 25% EC 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.

PHYSICAL/CHEMICAL HAZARDS

COMBUSTIBLE: Do not use or store near heat or open flame.

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 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, nitrile rubber, neoprene rubber, or Viton
- Shoes plus socks

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE AND SPILL PROCEDURES: Keep out of reach of children and animals. Store in original containers only, in a cool, dry place and avoid excess heat. Do not freeze. Do not store below 40°F. Carefully open containers. If crystals are observed, warm material to above 60°F by placing container in warm location. Shake or roll container periodically to redissolve solids. After partial use, replace lids and close tightly. Do not put concentrate or

Bracketed Text [] - Optional Marketing Statements

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.

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.

DISPOSAL STATEMENTS:

Nonrefillable container: Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 5 gallons. 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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 5 gallons and less than 56 gallons: 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 56 gallons: To clean the 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.

For refillable containers: Refill this container with pesticide only. Do not reuse this 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 refiller. To clean the 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.

RESISTANCE MANAGEMENT

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.

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APPLICATIONS INSTRUCTIONS – FOOD CROPS

Application rates will vary according to pest pressure, timing of sprays, and field scouting. Use lower rates under light to moderate infestations and higher rates under heavy insect pressure and for mite control. 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) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

CHEMIGATION USE DIRECTIONS

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

For LEPA irrigation, 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 manufacturer's, 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 area.

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 function 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.

Bifen 25% EC should be applied continuously for the duration of the water application. Bifen 25% EC 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 Strip

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, NRCS. 2000. Fort Worth, Texas. 21 pp. <http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf>.

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural 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, permanent streams, marshes, natural 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, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

SPRAY DRIFT REQUIREMENTS

All aerial and 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, or by air within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds. Increase the buffer zone to 450 feet when ultra low volume (ULV) application is made in cotton. Use of ultra low volume (ULV) application on corn and hops is prohibited.

Wind Direction and Speed

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

Only apply this product if the wind direction favors on-target deposition.

Do not apply when wind velocity exceeds 15 mph.

Temperature Inversions

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.

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

Droplet size

Use only medium or coarse spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. In condition of low humidity and high temperature, applicators should use a coarser droplet size.

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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.

Ground Application

For ground applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Aerial Application

The spray boom should be mounted on the aircraft so as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of 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.

ROTATIONAL CROPS

Crops with existing bifenthrin tolerances may be rotated at any time. All other crops may be rotated 30 days following the final application of Bifen 25% EC.

TANK MIXTURES

Bifen 25% EC 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.

FOOD CROP USE INSTRUCTIONS

ARTICOKE

Apply as directed at a rate of 6.4 fl. oz. (0.1 lb. ai) per acre.

PEST	APPLICATION INSTRUCTIONS
Artichoke Plume Moth Cribrate Weevil	<p>Apply when pest population reaches damaging threshold and repeat as necessary to maintain control, but not apply more often than 15 day intervals.</p> <p>Application by ground: Apply a full cover spray in a minimum of 75 gallons of finished spray per acre.</p> <p>Application by air: Apply specified rate in a minimum of 10 gallons per acre.</p>
<p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • Do not exceed 0.5 lb. ai per acre per season. • A 5-day preharvest interval must be observed. 	

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BRASSICA CROPS

Apply as directed using the rates in the table below.

CROP	PEST/RATE	APPLICATION INSTRUCTIONS
Head and Stem Brassica Vegetables including: Broccoli Chinese Broccoli (gai lon, White flowering broccoli) Brussels sprouts Cauliflower Cavalo broccoli Kohlrabi Cabbage Chinese Cabbage (napa) Chinese Mustard Cabbage (gai choy)	<p style="text-align: center;">PESTS:</p> Cutworms Corn Earworm Tobacco Budworm Saltmarsh Caterpillar Leafhoppers Flea Beetles Imported Cabbageworm Cucumber Beetles Whitefly Armyworms Loopers Stink Bugs Crickets Ground Beetles Thrips Wireworm (adults) Diamondback Moth <p style="text-align: center;">RATE: 2.1 to 6.4 fl. oz./acre (0.033 to 0.1 lb. ai/acre)</p> <p style="text-align: center;">PESTS:</p> Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus spp. <p style="text-align: center;">RATE: 5.12 to 6.4 fl. oz./acre (0.08 to 0.1 lb. ai/acre)</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. Whey applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
<p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • Do not apply more than 0.5 lb. active ingredient (1 quart) 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. 		

CANE BERRIES

Apply as directed using the rates in the table below.

CROP	PEST/RATE	APPLICATION INSTRUCTIONS
Caneberries including: Blackberries Bingleberries Dewberries Lowberries Marionberries Ollalieberries Youngberries	<p style="text-align: center;">PESTS:</p> Leafrollers Orange Tortrix Root Weevils <p style="text-align: center;">RATE: 3.2 to 6.4 fl. oz./acre (0.05 to 0.1 lb. ai/acre)</p>	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. ai per acre post-harvest (fall) or pre-bloom (spring) as a drench application directed at the

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Loganberries Raspberries	<p>PEST: Spider Mites Raspberry Crown Borer</p> <p>RATE: 6.4 fl. oz./acre (0.1 lb. ai/acre)</p>	crown of plants in a minimum of 200 gallons of water per acre. Greater efficacy is observed at higher water gallonages (up to 400 gallons) or in an application prior to a significant rainfall event. Do not make both pre-bloom foliar and pre-bloom drench applications.
<p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • Do not apply within 3 days of harvest. • Do not exceed 0.2 lb ai per acre per season. 		

CANOLA, CRAMBE, RAPESEED

Apply as directed at a rate of 2.1 to 2.6 fl. oz. (0.033 to 0.04 lb. ai) per acre.

PEST	APPLICATION INSTRUCTIONS
Aphids Armyworms Cutworms Diamondback Moth Loopers Other Lepidopterous Larvae Lygus Bugs Flea Beetle Flea Hopper Grasshoppers Plant Bugs Stink Bugs Seedpod Weevil Thrips Whitefly	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. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
<p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • Do not apply more than 0.08 lb. active ingredient (5.12 ounces) per acre per season. • Do not make applications less than 14 days apart. • Do not apply within 35 days of harvest. 	

CILANTRO, CORIANDER

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Beet Armyworm Cabbage Looper Cutworm Flea Beetle Grasshoppers Leafminer Saltmarsh caterpillar Spotted Cucumber Beetle Thrips Whitefly	2.1 to 6.4 fl. oz. (0.033 to 0.1 lb. ai) per acre	Apply using sufficient water to obtain uniform coverage. Apply as needed. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft.
Two Spotted Spider Mite	5.12 to 6.4 fl. oz. (0.08 to 0.1 lb. ai) per acre	

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RESTRICTIONS:

- Do not make applications less than 7 days apart.
- Do not apply more than 0.5 pound active ingredient per acre per season.
- Do not apply within 3 days of harvest.

CITRUS

The use of Bifen 25% EC protects citrus tree roots from **Diaprepes** and other citrus root weevil feeding by creating a barrier. As citrus root weevil eggs hatch, the newly hatched larvae (neonates) fall to the soil surface beneath the tree and come into contact with Bifen 25% EC as they attempt to burrow into the root zone. Disturbance of the soil beneath the tree should be minimized.

Timing of application is very important. Peak emergence of **Diaprepes** adults varies by citrus growing region, and environmental factors such as soil moisture can affect emergence. Usually, two peaks occur for **Diaprepes**, first in the spring then late summer or early fall. **Southern Blue-Green and Blue-Green Citrus Weevils** and **Fuller Rose Beetle** usually have a single emergence peak in the spring. **Brown and Little Leaf Notchers** usually have three emergence peaks, spring, summer and fall. Since emergence varies by region and season, the best way to time application is to observe the adults. By trapping adults when they are most active (in the morning or and late afternoon) during the spring and summer emergence periods an estimation of numbers can be obtained. Eggs are laid 8 to 10 weeks following the adult emergence from the soil; larvae invasion into the soil will begin 2 to 3 weeks following adult emergence. Bifen 25% EC must be applied prior to the dropping of the neonates. Consult local university extension personnel for current information to protect citrus trees from **Citrus Root Weevils** and other pests.

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Diaprepes Root Weevil <i>(Diaprepes abbreviatus)</i> , Southern Blue Green Citrus Root Weevil <i>(Pachnaeus litus)</i> , Blue green Citrus Root Weevil <i>(Pachnaeus opalus)</i> , Brown Leaf Notcher <i>(Epicaerus mexicanus)</i> , Little Leaf Notcher <i>(Artipus floridanus)</i>	16 to 32 fl. oz. (0.25 to 0.5 lb. ai) per acre	Apply Bifen 25% EC by ground equipment to bare soil beneath citrus trees. Bifen 25% EC must be uniformly applied from the trunk to the drip line of the tree, apply in a minimum of 40 gallons of dilute spray per acre. Greater spray volume should insure greater uniformity of coverage. A pre- and post-application irrigation may aid in the uniformity of coverage as well. Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer. Peak emergence of Diaprepes Root Weevil generally occurs in the spring. Depending on weather conditions, a minor emergence may also occur in the fall. If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring, 32 fl. oz. formulated product should be used to obtain best results.
Fire Ant <i>(Solenopsis spp.)</i> , Asian Cockroach <i>(Blattelia asahinae)</i>	6.4 to 16 fl. oz. (0.1 to 0.25 lb. ai) per acre	If the citrus grove to be treated is in an area where weather conditions will promote more than one peak pest emergence, 16 fl. oz. formulated product can be applied early season and 16 fl. oz. formulated product can be applied later in the season. Follow spray drift precautions on this label.

RESTRICTIONS:

- Do not apply through irrigation systems.
- Do not allow any application of Bifen 25% EC to contact fruit or foliage.
- Do not apply a total of 32 fl. oz. of Bifen 25% EC (0.5 lb. ai) per acre per year.
- Apply the specified dosage in a minimum of 40 gallons of finished spray per acre.
- Ground application only. Do not apply by air.
- Do not apply within 1 day of harvest.

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**FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED
(AT PLANT USE)**

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Corn Rootworm Larvae (Northern, Southern, Western)	0.30 fl. oz. (.0046 lb. ai) per 1,000 linear feet of row	Apply as a 5- to 7-inch T-band treatment over an open seed furrow. Position the spray nozzle behind the planter shoe in front of the press wheel centered over the row. Use the table below to determine the Bifen 25% EC needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. Mix Bifen 25% EC with water or fertilizer in the following manner. Fill the spray tank approximately one half full with water or liquid fertilizer, add the proper amount of Bifen 25% EC, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of Bifen 25% EC alone or in recommended tank mixtures, in conjunction with in-furrow pop-up fertilizers may be used. A jar compatibility test should be performed with the appropriate ratio of Bifen 25% EC and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.
Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworms	0.15 to 0.30 fl. oz. (.0023 to .0046 lb. ai) per 1,000 linear feet of row.	

RESTRICTIONS:

- Do not apply to soil where there is greater than 30% cover of crop residue remaining.
- Do not apply within 30 days of harvest.
- Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.
- Do not apply more than 0.1 pound active per acre per season as an at-plant application.

Row spacings (inches)	40	38	36	30
Bifen 25% EC (pounds ai per acre)	0.060	0.064	0.069	0.080
Bifen 25% EC (formulated product ounces per acre)	3.9	4.1	4.4	5.12

**FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED
(PRE- EMERGENT & PRE-PLANT INCORPORATED)**

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Black Cutworm White Grub Wireworm Seedcorn Maggot Armyworm spp. Stalkborer	3 to 4 fl. oz. (0.047 to 0.062 lb. ai) per acre Pre-plant Incorporated (PPI)	The 3-4 oz/A rate must be applied as PPI and can be tank mixed and applied with PPI herbicides. Incorporation of Bifen 25% EC 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	2.56 fl. oz. (0.040 lb. ai) per acre Pre-emergence (PRE)	The 2.56 oz/A rate may be applied PRE and can be tank mixed and applied with PRE herbicides.

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FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (FOLIAR USE)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm Adult Cucumber Beetle Adults Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle Adult Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stinkbugs Tarnished Plant Bug True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm	2.1 to 6.4 fl. oz. (0.033 to 0.10 lb. ai) per acre	<p>Apply in a minimum of 2 to 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment. To improve control by aircraft, use 5 gallons of finished spray per acre particularly when initial populations are heavier than normal. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.</p> <p>Thorough coverage is essential to achieve control.</p> <p>To Control Ear-Attacking Pests: Apply Bifen 25% EC just before silking and repeat as necessary to maintain control but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.</p> <p>Southwestern Corn Borer, European Corn Borer: Make application for corn borer control with initial application at or shortly before egg hatch.</p> <p>For Control Of Other Insect Pests: Apply when pests first appear and repeat as necessary but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.</p>
Banks Grass Mite Carmine Mite Twospotted Spider Mite	5.12 to 6.4 fl. oz. (0.08-0.10 lb. ai) per acre	<p>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.</p> <p>For Twospotted 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.</p> <p>For Mite Control In Texas, New Mexico, Oklahoma, and Arizona: Apply in a minimum of 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment.</p>
<p>Restrictions:</p> <ul style="list-style-type: none"> • Do not apply more than 0.3 pound active ingredient per acre per season including pre and ppi, at-plant, plus foliar applications. • Do not apply within 30 days of harvest. • Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application. • 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. • Use of Bifen 25% EC on corn is prohibited in all coastal counties. 		

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SWEET CORN (GRAIN AND SILAGE), SWEET CORN GROWN FOR SEED (AT PLANT USE)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS			
Corn Rootworm Larvae (Northern, Southern, Western)	0.30 fl. oz. (0.0046 lb. ai) per 1,000 linear feet of row	Apply as a 5- to 7-inch T-band treatment over an open seed furrow. Position the spray nozzle behind the planter shoe, in front of the press wheel centered over the row. Use the table below to determine the Bifen 25% EC needs per acre. Apply in a minimum of 3 gallons of finished spray per acre.			
Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm species Wireworms	0.15 to 0.30 fl. oz. (0.0023 to 0.0046 lb. ai) per 1,000 linear feet of row	Mix Bifen 25% EC with water or fertilizer in the following manner. Fill the spray tank approximately one-half full with water or liquid fertilizer, add the proper amount of Bifen 25% EC, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of Bifen 25% EC alone or in recommended tank mixtures, in conjunction with in-furrow pop-up fertilizers may be used. A jar compatibility test should be performed with appropriate ratio of Bifen 25% EC and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.			
RESTRICTIONS:					
<ul style="list-style-type: none"> Do not apply to soil where there is greater than 30% cover of crop residue remaining. Do not apply within 30 days of harvest. Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment. Do not apply more than 0.1 pound active per acre per season as an at-plant application. 					
Row spacings (inches)		40	38	36	30
Bifen 25% EC (pounds per acre)		0.060	0.064	0.069	0.080
Bifen 25% EC (formulated product ounces per acre)		3.9	4.1	4.4	5.12

SWEET CORN (GRAIN AND SILAGE), SWEET CORN GROWN FOR SEED (FOLIAR USE)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm Adults Cucumber Beetle Adult Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbugs Japanese Beetle Adult Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stinkbugs	2.1 to 6.4 fl. oz. (0.033-0.10 lb. ai) per acre	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. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. To Control Ear-Attacking Pests: Apply Bifen 25% EC when silking begins and repeat as necessary to maintain control but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section. Southwestern Corn Borer, European Corn Borer: Make 2 applications for corn borer with the initial application at or shortly before egg hatch. For Control Of Other Insect Pests: Apply when pests first appear and repeat as necessary but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.

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Tarnished Plant Bug True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm		
Banks Grass Mite Carmine Mite Twospotted Spider Mite	5.12 to 6.4 fl. oz. (0.08-0.10 lb. ai) per acre	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 Twospotted 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.
RESTRICTIONS:		
<ul style="list-style-type: none"> • Do not apply more than 0.2 pound active ingredient (12.8 ounces formulated product) per acre per season. • Do not apply within one day of harvest. • Do not graze livestock in treated areas or cut treated crops for feed within 1 day of last application. • 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. • Use of Bifen 25% EC on corn is prohibited in all coastal counties. 		

COTTON

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	1.3-6.4 fl. oz./acre (0.02-0.10 lb. ai/acre)	Bifen 25% EC may be applied in water or refined vegetable oil (soybean/cottonseed). Application in Water: Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray.
Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm Whitefly Yellowstriped Armyworm	2.6-6.4 fl. oz./acre (0.04-0.10 lb. ai/acre)	ULV Application: Apply the recommended rate of Bifen 25% EC in refined vegetable oil in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage. To Control Boll Weevil: Apply Bifen 25% EC 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 but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section. Higher rates will be required once a damaging threshold is established.
Beet Armyworm Carmine Spider Mite <i>Lygus</i> spp. Pink Bollworm Twospotted Spider Mite	3.8-6.4 fl. oz./acre (0.06-0.10 lb. ai/acre)	
RESTRICTIONS:		
<ul style="list-style-type: none"> • Do not apply more than 0.5 pound active ingredient per acre 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 combinations or products) to a cotton crop in one growing season. 		

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CUCURBITS

Apply as directed using the rates in the table below.

CROP	PEST/RATE	APPLICATION INSTRUCTIONS
<p>Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Citron melon Cucumber Gherkin Gourd, edible (includes hyotan, cucuzza); (<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 or <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>PESTS: Aphids Armyworms Cabbage Looper Corn Earworm Cucumber Beetles Cutworms Grasshoppers Leafhoppers Melonworms Pickleworms Plant Bugs Rindworms Squash Bugs Squash Vine Borer Stink Bugs Tobacco Budworm</p> <p>RATE: 2.6 to 6.4 fl. oz. (0.04 to 0.1 lb. ai) per acre</p> <p>PESTS: Whitefly Banks Grass Mite Twospotted spider Mite Carmine Mite <i>Lygus</i> spp.</p> <p>RATE: 5.12 to 6.4 fl. oz. (0.08 to 0.1 lb. ai) per acre</p>	<p>Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 20 gallons per acre with ground equipment.</p> <p>When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.</p> <p>Thorough coverage is essential to achieve control.</p>
<p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • Do not apply more than 0.3 lb. active ingredient (19.2 ounces formulated product) per acre per season. • Do not make more than two applications after bloom. • Do not make applications less than 7 days apart. • Do not apply within 3 days of harvest. 		

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DRIED BEANS AND PEAS

Apply as directed using the rates in the table below.

CROP	PEST	RATE	APPLICATION INSTRUCTIONS
Dried cultivars of Beans (<i>Lupinus</i>) Beans (<i>Phaseolus</i>) Field bean Kidney bean Lima bean (dry) Navy bean Pinto bean Tepary bean Bean (<i>Vigna</i>) Adzuk 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 Peas (<i>Pisum</i>) Field pea Pigeon pea	Aster Leafhopper Flea Beetle Grasshoppers Leafhoppers	1.6 to 6.4 fl. oz. (0.025 to 0.10 lb. ai) per acre	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.
	Aphids Beet Armyworm Fall Armyworm Southern Armyworm Yellowstriped Armyworm Bean Leaf Beetle Cucumber Beetle Japanese Beetle (Adult) Sap Beetle Plant Bugs Stink Bugs Tarnished Plant Bug Alfalfa Caterpillar Cloverworm European Corn Borer Cutworms Western Bean Cutworm Corn Earworm Loopers Corn Rootworm (Adult) Thrips Webworms Pea Weevil Pea Leaf Weevil Whitefly Imported cabbageworm Saltmarsh caterpillar Tobacco budworm Leafminer	2.1 to 6.4 fl. oz. (0.033 to 0.10 lb. ai) per acre	
		Banks Grass Mite Twospotted Spider Mite Carmine Mite <i>Lygus</i> spp	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre

RESTRICTIONS:

- Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated product) to peas, or 0.3 lb. active ingredient (19.2 ounces formulated product) to beans per acre per season.
- Do not apply within 14 days of harvest.
- Do not make applications less than 7 days apart.

FRUITING VEGETABLES

Apply as directed using the rates in the table below.

CROP	PEST	RATE	APPLICATION INSTRUCTIONS
Eggplant Pepper (Bell & Non-Bell) Groundcherry Pepino	Armyworms including Beet Armyworm, Fall Armyworm, Southern Yellowstriped Armyworm	2.1 to 6.4 fl. oz. (0.033 to 0.10 lb. ai) per acre	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.

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	<p>Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle Leafminers Loopers Pepper weevil Plant Bugs Stink Bugs Thrips Tomato Hornworm Tomato Pinworm Vegetable Leafminer Whitefly</p>		<p>When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.</p> <p>Thorough coverage is essential to achieve control.</p>
	<p>Banks Grass Mite Broad Mite Carmine Mite <i>Lygus</i> spp Pacific Spider Mite Twospotted Spider Mite</p>	<p>5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre</p>	
<p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • Do not make applications less than 7 days apart. • Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated product) per acre per season. • Do not apply within 7 days of harvest. 			
<p>Tomato Tomatillo</p>	<p>Aphids Armyworms including Beet Armyworm, Fall Armyworm, Southern Armyworm, Yellowstriped Armyworm Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn Earworm Cucumber Beetle Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers <i>Lygus</i> spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug species</p>	<p>2.1 to 5.2 fl. oz. (0.033 to 0.08 lb. ai) per acre</p>	<p>Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment.</p> <p>Thorough coverage is essential to achieve control.</p>

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	Tobacco Budworm Tarnished Plant Bug Thrips Whitefly		
	Twospotted Spider Mite	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre	
RESTRICTIONS:			
<ul style="list-style-type: none"> • A maximum of 4 applications may be applied per season. • Do not apply within 1 day of harvest. 			

GRAPES

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Cutworms Eastern Grape Leafhopper Grape Berry Moth Japanese Beetles Adults Variegated Leafhopper Western Grape Leafhopper	3.2 to 6.4 fl. oz. (0.05 to 0.10 lb. ai) per acre	Apply in a minimum of 10 gallons of finished spray by air or in a minimum of 25 gallons of finished spray with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.
Black Vine Weevil Glassywinged Sharpshooter Twospotted Spider Mite	6.4 fl. oz. (0.10 lb. ai) per acre	Thorough coverage is essential to achieve control. When pest pressure is moderate to severe, use higher rate.
RESTRICTIONS:		
<ul style="list-style-type: none"> • Do not apply more than 0.10 lb. ai per acre per season. • Do not apply within 30 days of harvest. 		

HOPS

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Armyworms Cutworms Leafrollers Loopers	3.8 to 6.4 fl. oz. (0.06 to 0.1 lb. ai) per acre	Application by ground: For best results, full coverage is essential. Early season - recommend 100-150 gallons of spray per acre. Late season - recommend 200-250 gallons of spray per acre.
Root Weevils	3.2 to 6.4 fl. oz. (0.05 to 0.1 lb. ai) per acre	For Root Weevil control, make a directed spray to the base of the plant. Spray up the vine 3 feet and the soil surface 1.5 to 2 feet on either side of the plant.
Twospotted Spider Mite	6.4 fl. oz (0.1 lb. ai) per acre	Application by air for late season control of Twospotted Spider Mites: Apply no less than 6.4 oz (0.1 lb ai) per application in a minimum of 10 gallons per acre. Use of ultra low volume (ULV) application on hops is prohibited.
RESTRICTIONS:		
<ul style="list-style-type: none"> • Do not exceed 0.1 lb. ai per acre per application. • Do not exceed 0.3 lb. ai per acre per season. • A spray interval of 21 days between applications must be maintained. • A 14-day preharvest interval must be observed. 		

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LEAFY BRASSICAS

Apply as directed using the rates in the table below.

CROP	PEST	RATE	APPLICATION INSTRUCTIONS
Broccoli Raab Bok Choy Collards Kale Mizuna Mustard Greens Mustard Spinach Rape Greens	Aphids Armyworms Corn Earworm Crickets Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Grasshoppers Ground Beetles Imported Cabbageworm Japanese Beetles (Adult) Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm Whitefly Wireworm (Adults)	2.1 to 6.4 fl. oz./acre (0.033 to 0.1 lb. ai/acre)	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. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus spp.	5.12 to 6.4 fl. oz./acre (0.08 to 0.1 lb. ai/acre)	

RESTRICTIONS:

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

LETTUCE, HEAD

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Armyworms Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetle Imported Cabbageworm Leafhoppers Loopers Salt marsh Caterpillar Stink Bug spp. Tobacco Budworm Whitefly	2.1 to 6.4 fl. oz. (0.033 to 0.10 lb. ai) per acre	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
Lygus spp. Carmine Mite Twospotted Spider Mite	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre	

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RESTRICTIONS:

- Do not make applications less than 7 days apart.
- A maximum of 0.5 lb. active ingredient may be applied per acre per season.
- Do not apply within 7 days of harvest.

MAYHAW

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Plum Curculio	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre	Apply as a foliar treatment using at least of 28 gallons per acre.

RESTRICTIONS:

- Do not make applications less than 7 days apart.
- Do not apply more than 0.2 pound active ingredient per acre per season.
- Do not apply within 30 days of harvest.

OKRA

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Japanese Beetle (Adult) Leafminers Loopers Stink bugs Thrips Whitefly	2.1 to 6.4 fl. oz. (0.033 to 0.1 lb. ai) per acre	Apply using sufficient water to obtain uniform coverage. Apply as needed. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft.
<i>Lygus</i> spp. Broad Mite Carmine Mite Two Spotted Spider Mite	5.12 to 6.4 fl. oz. (0.08 to 0.1 lb. ai) per acre	

RESTRICTIONS:

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

PEANUT

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Beet Armyworms Corn earworm Cucumber Beetles Cutworm species Fall Armyworm	2.1 to 6.4 fl. oz. (0.033 to 0.1 lb. ai) per acre	Apply foliar treatments in at least 10 gallons per acre at the rate of 6.4 fl. oz. (0.1 lb. active ingredient) per acre at a minimum of 14 days intervals.

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Grasshoppers Green cloverworm Leafhoppers Lesser Cornstalk Borer Loopers Rednecked Peanut Worm Southern Armyworm Southern Corn Rootworm Stink Bugs Threecornered Alfalfa Hopper Velvetbean Caterpillar Yellowstriped Armyworm		
Aphids Spider Mites Thrips Whitefly	5.12 to 6.4 fl. oz. (0.08 to 0.1 lb. ai) per acre	

RESTRICTIONS:

- Do not feed green immature plants and peanut hay to livestock.
- Do not apply more than 0.5 pound active ingredient per acre per season.
- Do not apply within 14 days of harvest.

PEARS

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Codling Moth Cutworms Green Fruitworm Leafhopper Leafminer Leafroller <i>Lygus</i> spp. Plant Bugs Plum Curculio San Jose Scale (Crawlers) Stink Bugs Tarnished Plant Bug	2.6 to 12.8 fl. oz. (0.04 to 0.2 lb. ai) per acre	Application by ground: Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) spray in sufficient water to provide thorough coverage. Application by air: Apply the specified dosage in a minimum of 10 gallons per acre by air. Apply as necessary to maintain control using a minimum of 30 day spray interval. Apply up to 14 days prior to harvest.
Twospotted Spider Mite Yellow Mite	3.8 to 12.8 fl. oz. (0.06 to 0.2 lb. ai) per acre	
European Red Mite	5.12 to 12.8 fl. oz. (0.08 to 0.2 lb. ai) per acre	

RESTRICTIONS:

- Do not apply more than 0.5 pound active per acre per season with no more than 0.45 pound active per acre applied after petal fall.
- Do not graze livestock in treated orchards or cut treated cover crops for feed.

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ROOT CROPS

Apply as directed using the rates in the table below.

CROP	PEST	RATE	APPLICATION INSTRUCTIONS
Burdock, edible Carrot Celeriac Chervil, turnip rooted Chicory Ginseng Horseradish Parsley, turnip rooted Parsnip Radish Radish, oriental Rutabaga Salsify Salsify, black Salsify, Spanish Skirret Turnip	Aphids Beet Armyworm Celery leaf-tier Corn Earworm Cross-Striped Cabbageworm Cutworms Diamondback moth European Corn Borer Fall Armyworm Fire Ants Flea Beetles Green Cloverworms Hornworms Imported Cabbageworm Loopers Southern Armyworm Spider Mites Tobacco Budworm Velvetbean Caterpillar Whitefly Yellowstriped Armyworm	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre	Apply foliar treatments in at least 25 gallons per acre.

RESTRICTIONS:

- Do not make applications less than 7 days apart.
- Do not apply more than 0.5 pound active per acre per season.
- Do not apply within 21 days of harvest.

Garden Beet	Aphids Fire Ants Flea Beetles Lepidopterous Larvae Spider Mites Whitefly	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre	Apply foliar treatments in at least 25 gallons per acre.
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RESTRICTIONS:

- Do not make applications less than 7 days apart.
- Do not apply more than 0.4 lb. active ingredient per acre per season.
- Do not apply within 1 day of harvest.

SOYBEAN

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Soybean Aphid	2.1 to 6.4 fl. oz. (0.033 to 0.1lb. ai) per acre	Apply as a foliar treatment using at least of 10 gallons per acre at the rate of 6.4 fl. oz. (0.1 lb.) per acre at a minimum of 30 day intervals.
Spider Mite	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre	

RESTRICTIONS:

- Do not apply more than 0.3 pound active ingredient per acre per season.
- Do not apply within 18 days of harvest.

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SPINACH

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Armyworms Colorado Potato Beetle Corn Earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips Tomato Pinworm Tomato Hornworm Whitefly	2.1 to 6.4 fl. oz. (0.033 to 0.10 lb. ai) per acre	Apply the specified dosage in 5-50 gallons of finished spray per acre by air or 10-50 gallons of finished spray per acre by ground. For control of Whiteflies , apply foliar treatments of Bifen 25% EC by ground or air at rates of up to 0.4 pt. (0.1 lb active) per acre at minimum 7-day intervals up to a maximum of 4 applications. For control of Fire Ants , apply Bifen 25% EC to the soil (at planting) or as a foliar treatment by ground or air at rates up to 0.4 pt. (0.1 lb. active) per acre at minimum 7-day intervals up to a maximum of 4 applications.
Broad mite Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus spp. Fire Ants	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre	
RESTRICTIONS: <ul style="list-style-type: none"> • Do not make applications less than 7 days apart. • Do not apply more than 0.4 pound active ingredient per acre per season. • Do not apply within 40 days of harvest. 		

SUCCULENT PEAS AND BEANS

Apply as directed at the table rates below.

CROP	PEST	RATE	APPLICATION INSTRUCTIONS
Peas (<i>Pisum</i> spp.) including: Dwarf pea Edible-pod pea English pea Garden pea Green pea Snow pea Sugar snap pea Pigeon pea Bean (<i>Phaseolus</i> spp.) including: Broadbean(succulent), Lima bean (green), Runner bean, Snap bean, Wax bean Bean (<i>Vigna</i> spp.) including: Asparagus bean, Blackeyed pea, Chinese longbean,	Flea Beetle Grasshoppers Aster Leafhopper Leafhoppers	1.6 to 6.4 fl. oz. (0.025 to 0.10 lb. ai) per acre	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.
	Aphids Beet Armyworm Fall Armyworm Southern Armyworm Yellowstriped Armyworm Bean Leaf Beetle Cucumber Beetle Japanese Beetle Adult Sap Beetle Plant Bugs Stink Bugs Tarnished Plant Bug Alfalfa Caterpillar Clover Worm European Corn Borer Cutworms Western Bean Cutworm Corn Earworm	2.1 to 6.4 fl. oz. (0.033 to 0.10 lb. ai) per acre	When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

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Cowpea, Moth bean, Southern pea, Yardlong bean, Jackbean, Soybean (immature seed), Sword bean	Loopers Corn Rootworm Adult Thrips Webworms Pea Weevil Pea Leaf Weevil Whitefly		
	Banks Grass Mite Twospotted Spider Mite Carmine Mite <i>Lygus</i> spp.	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre	

RESTRICTIONS:

- Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated product) per acre per season.
- Do not apply within 3 days of harvest.

TOBACCO

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Cutworm spp. Tobacco Flea Beetle (larvae) White Grubs Wireworms Mole Crickets Armyworm spp. Stalkborers	4.0 to 6.4 fl. oz. (0.0625 to 0.10 lb. ai) per acre	Pre-Transplant Soil Application: Apply 0.0625 to 0.1 pounds active ingredient in a minimum of 10 gallons per acre to control soil pests. Use of suitable equipment to incorporate into top 4" of the soil is required to control below ground pests. At-Plant Water Treatment Application: Apply 0.0625 to 0.1 pounds active ingredient in a water treatment application volume of 10 to 200 gallons per acre.
Aphid spp. Armyworm spp. Flea Beetle (Adult) Chinch bugs Stink bugs Japanese Beetles Grasshoppers Cutworm spp. Tarnished Plant Bugs Green bugs Thrips Whiteflies	2.56 to 6.4 fl. oz. (0.04 to 0.10 lb. ai) per acre	Foliar Application: Apply 0.04 to 0.1 pounds active ingredient per foliar application up to and including layby in a minimum of 10 gallons per acre.
Spider Mites <i>Lygus</i> spp.	6.4 fl. oz. (0.10 lb. ai) per acre	

RESTRICTIONS:

- Do not apply later than layby
- Do not apply more than 0.2 pound active ingredient per acre per season.
- May be tank mixed with other herbicides labeled for tobacco use.
- Do not make more than 2 foliar applications per season.

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TUBEROUS AND CORM VEGETABLES

Apply as directed using the rates in the table below.

CROP	PEST	APPLICATION INSTRUCTIONS
Potato Sweet potato Arracacha Arrowroot Chinese artichoke Jerusalem artichoke Edible canna Cassava (bitter & sweet) Chayote (root) Chufa Dasheen (taro) Ginger Leren Tanier Turner Yam bean True yam	Corn wireworm Tobacco wireworm Southern potato wireworm Japanese beetle grubs June beetle Sweetpotato flea beetle Cucumber beetle Sweetpotato Weevil Banded Cucumber Beetle Black flea beetle Whitefringed beetle White grub Sugarcane beetle Rootworms	<p>In-Furrow At Planting Application: Apply Bifen 25% EC to control wireworms, rootworms, and white grubs. Apply at the rate of 0.3 pounds active ingredient (19.2 ounces formulated product) per acre as an in-furrow or T-band spray at planting time.</p> <p>Lay-By Application: Apply Bifen 25% EC to control wireworms, rootworms and white grubs. Apply to the drill area and cover with soil utilizing cultivation equipment set to throw soil to the drill area. Apply at the rate of 0.05 to 0.15 pounds active ingredient (3.2 to 9.6 ounces formulated product) in 10 gallons per acre of spray.</p> <p>Foliar Application: Apply Bifen 25% EC to control the adult life stages of flea beetles, click beetles (wireworms), cucumber beetles (rootworms), Whitefringed beetles and May/June beetles (White grubs). Apply at the rate of 0.1 lbs. active ingredient (6.4 ounce formulated product) per acre in 10 gallons of spray by ground equipment and 3 gallons of spray by air.</p>
<p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • Do not make more than 2 foliar applications per season no sooner than 21 days apart. • Do not apply more than 0.5 lb. active ingredient per acre per season, including soil application. • Do not apply within 21 days of harvest. 		

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