



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

EPA Reg. Number: Date of Issuance: MAR 1 1 2008

Term of Issuance: Conditional

> Name of Pesticide Product: Bifen 25% EC-CAL

NOTICE OF PESTICIDE:

X Registration
Reregistration

(Under FIFRA as amended)

Name and Address of Registrant (include ZIP Code):

Axss USA, LLC

1100 Platte Falls Road

Platte City, MO 64079

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

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

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

This product is <u>conditionally</u> 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. 83520-14."
 - b) Move the paragraph beginning, "Do not apply this product in a way ... and ending ... state agricultural authorities for details" immediately above the Agricultural Use Requirements Box.
 - c) Delete the list of specific crop REI's and change the crop REI in the agricultural use requirements box to read: "Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
 - d) Revise the rotational crops restriction to read, "Crops for which bifenthrin tolerances exist may be rotated at anytime. All other crops may be rotated 30 days following the final application of bifenthrin".

George T. LaRocca, Product Manager (13)
Insecticide Branch/Registration Division (7505C)

March 11,2008

Enclosure

- e) On page 9, under "Caneberries", delete the application instructions for crown borer. This pest isn't cited on the me-too label.
- f) Under Application Instruction move the statement "Use of Bifen 25% EC-CAL is prohibited in all coastal counties" to the remarks section under corn (foliar) and sweet corn sections.
- g) Under the restriction section for lima beans delete the last bullet, "Do not apply within 9 days of harvest for peas/beans that are hand harvested". These crops are not listed on the label.
- 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 of my team at (703) 305-7460.

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 - CAL INSECTICIDE/MITICIDE

FOR SALE AND USE ONLY IN CALIFORNIA

[For use to control listed insects and mites on brassicas, caneberries, canola, corn, cotton, crambe, cucurbits, head lettuce, lima beans, peppers, and rapeseed.]

[<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%

This product contains 2 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING-AVISO

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

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

EPA Reg. No. 83520-XX		EPA Est. No. XXXXX-X		
	Net Contents:		ε σός	υ 1910 1910

Manufactured By: Axss USA, LLC 1100 Platte Falls Road Platte City, MO 64079 In FIGAL Letter Dated
In FigA Letter Dated
Under the Federal Insecticide.
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.

^{*}Cis isomers 97% minimum, trans isomers 3% maximum.

^{**}Contains xylene range aromatic solvents.

FIRST AID					
Have the product co	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:	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:	 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	Take off contaminated clothing.				
CLOTHING:	 Rinse skin immediately with plenty of water for 15-20 minutes. 				
	 Call a poison control center or doctor for treatment advice. 				
IF INHALED:	Move person to fresh air.				
٠	 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 PHYSICIA	N: This product is a pyrethroid. If large amounts have been ingested,				

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

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.

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
- Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber, or viton
- Chemical resistant shoes 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

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.

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.

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.

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

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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.

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) listed in the chart below.

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

• Shoes plus socks		
Crop	Activity	REI
Beans (for processing only)	All	24 hours
Beans (for fresh market)	All	9 days
Caneberries (for mechanically harvested)	All .	24 hours
Caneberries (all others)	All	4 days
Head, Stem Brassica	All	5 dáys
Sweet Corn (for processing only)	All	24 hours
Sweet Corn for fresh market)	All	18 days
Field Corn (grown for seed)	Detasseling	18 days
Field Corn (grown for seed)	Roguing	18 days
Field Corn (grown for seed)	Other Activities	24 hours
Cotton	Scouting	7 days
Cotton	Other Activities	24 hours
Other Crops	All	24 hours]

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 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.

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.

Returnable, Refiliable Containers [U-Turn® Container]: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

SPECIAL EQUIPMENT

In the State of California this product must be used in closed systems that meet the criteria for closed systems as established by the California Department of Food and Agriculture. The criteria and a list of the closed systems meeting the criteria are available through the California Department of Food and Agriculture.

ROTATIONAL CROPS

Rotational crops may be planted no sooner than 30 days after the last application of Bifen 25% EC-CAL. Straw may not be used for food or feed.

TANK MIXTURES

Bifen 25% EC-CAL may be applied in tank-mixtures with other products approved for use on cotton. Observe all restrictions and precautions which appear on the labels of these products.

APPLICATIONS INSTRUCTIONS

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.

Use of Bifen 25% EC-CAL is prohibited in all coastal counties.

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.

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

SPRAY DRIFT PRECAUTIONS

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.

For aerial applications, 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 rotor diameter.

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.

Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Make aerial or ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind 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 with 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.

Do not make aerial or ground applications during temperature inversions. Do not make aerial or 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.

CROP USE INSTRUCTIONS

BRASSICA CROPS

Apply as directed using the rates in the table below.

CROP	PEST/RATE	APPLICATION INSTRUCTIONS
Head and Stem	PESTS:	Apply in a minimum of 2 gallons of finished
Brassica	Cutworms,	spray per acre by air or in a minimum of 10
Vegetables	Corn Earworm,	gallons per acre with ground equipment.
including:	Saltmarsh Caterpillar,	
Broccoli,	Flea Beetles,	Whey applying by air, 1 to 2 quarts of
Chinese Broccoli	Imported Cabbageworm,	emulsified oil may be substituted for 1 to 2
(gai lon,	Cucumber Beetles,	quarts of water in the finished spray.
White flowering	Whitefly,	
broccoli),	Armyworms,	Thorough coverage is essential to achieve
Brussels sprouts,	Loopers,	control.
Cauliflower,	Crickets,	
Cavalo broccoli,	Diamondback Moth	
Kohlrabi,		
Cabbage,	RATE:	
Chinese Cabbage	2.1 to 6.4 fl. oz./acre	
(napa),	(0.033 to 0.1 lb. ai/acre)	
	PESTS:	
	Lygus spp.	
	RATE:	
	5.12 to 6.4 fl. oz./acre	
	(0.08 to 0.1 lb. ai/acre)	

RESTRICTIONS:

- 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.

CANEBERRIES

Apply as directed using the rates in the table below.

CROP	PEST/RATE	APPLICATION INSTRUCTIONS
Caneberries	PESTS:	Apply by air or ground equipment using
including:	Leafrollers,	sufficient water to obtain full coverage of
	Orange Tortrix,	foliage (minimum of 10 gallons per acre by air
Blackberries,	Root Weevils	and 50 gallons per acre by ground).
Bingleberries,		
Dewberries,	RATE:	One application may be made pre-bloom and
Lowberries,	3.2 to 6.4 fl. oz./acre	a second application may be made post

Marionberries, Olallieberries,	(0.05 to 0.1 lb. ai/acre)	bloom.
Youngberries, Loganberries, Raspberries	PEST: Spider Mites RATE: 6.4 fl. oz./acre (0.1 lb. ai/acre)	For Crown Borer, apply 0.1 lb. ai per acre post-harvest (fall) or pre-bloom (spring) as a drench application directed at the 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.
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RESTRICTIONS:

- Do not apply within 3 days of harvest.
- Do not exceed 0.2 lb ai per acre per season.
- Do not apply within 4 days of harvest for caneberries that are hand-harvested.

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, Cutworms, Diamondback Moth,	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.	
Loopers,	When applying by air, 1 to 2 quarts of emulsified oil may be	
Other Lepidopterous Larvae,	substituted for 1 to 2 quarts of water in the finished spray.	
Lygus Bugs,	Thorough coverage is essential to achieve control.	
Flea Beetle,		
Flea Hopper,		
Grasshoppers,		
Plant Bugs,		
Stink Bugs,		
Seedpod Weevil,		
Thrips,		
Whitefly,		
Armyworms		

RESTRICTIONS;

- 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.

COTTONApply as directed using the rates in the table below.

	,	
PEST	RATE	APPLICATION INSTRUCTIONS
European Corn Borer,	1.3-6.4 fl.	Bifen 25% EC-CAL may be applied in water or
Soybean (Banded) Thrips,	oz./acre	refined vegetable oil (soybean/cottonseed).
Tobacco Thrips		
	(0.02-0.10	Application in Water: Apply in a minimum of
· · _	lb. ai/acre)	5 gallons per acre with ground equipment or 1
Boll Weevil,	2.6-6.4 fl.	gallon per acre by aircraft. When applying by
Bollworm,	oz./acre	air, 1 quart of emulsified oil may be substituted
Cabbage Looper,		for one quart of water in the finished spray.
Cotton Aphid,	(0.04-0.10	
Cotton Fleahopper,	lb. ai/acre)	To Control Boll Weevil: Apply Bifen 25% EC-
Cotton Leafperforator,		CAL at an interval of 3 to 4 days until pest
Cutworms,		numbers are reduced to acceptable levels.
Fall Armyworm,		To Control Mites and Ambides Assistant
Lygus spp.		To Control Mites and Aphids: Apply when
Plant Bugs,		pests first appear. Repeat as necessary to
Saltmarsh Caterpillar,	•	maintain control but do not exceed maximum
Southern Garden Leafhopper,		application rates and reapplication intervals listed elsewhere in this section. Higher rates
Stink Bugs, Tobacco Budworm,		will be required once a damaging threshold is
Whitefly,		established.
Yellowstriped Armyworm		established.
Beet Armyworm,	3.8-6.4 fl.	
Carmine Spider Mite,	oz./acre	
Pink Bollworm,	02./40/0	
Twospotted Spider Mite	(0.06-0.10	
, · · · · · - , · · · · · · · · · · · ·	lb. ai/acre	

RESTRICTIONS:

- Do not apply more than 0.3 pound active ingredient per acre per season.
- Do not make more than 3 applications per growing 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.

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 (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
Army Cutworm, Cutworm Species,	0.15 to 0.30 fl. oz. (.0023 to .0046 lb. ai)	25% EC-CAL needs per acre. Apply in a minimum of 3 gallons of finished spray per acre.
Grubs, Seed Corn Beetle, Seed Corn Maggot, True Armyworm or	per 1,000 linear feet of row	Mix Bifen 25% EC-CAL 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-CAL, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture.
Armyworm Species, Wireworms		Applications of Bifen 25% EC-CAL alone or in recommended tank mixtures, in conjunction with infurrow pop-up fertilizers may be used. A jar compatibility test should be performed with the appropriate ratio of Bifen 25% EC-CAL and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.

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)		38	36	30
Bifen 25% EC-CAL (pounds ai per acre)	0.060	0.064	0.069	0.080
Bifen 25% EC-CAL (formulated product ounces per	3.9	4.1	4.4	5.12
acre)		·		

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

Apply as directed using the rates in the table below.

		<u> </u>
PEST	RATE	APPLICATION INSTRUCTIONS
Aphids,	2.1 to 6.4 fl.	Apply in a minimum of 2 to 5 gallons of finished spray per
Beet Armyworm,	oz.	acre by aircraft or in a minimum of 10 gallons per acre with
Chinch Bug,	(0.033 to	ground equipment. To improve control by aircraft, use 5
Corn Earworm,	0.10 lb. ai)	gallons of finished spray per acre particularly when initial
Corn Rootworm	per acre	populations are heavier than normal. When applying by
Adult,		air, 1 to 2 quarts of emulsified oil may be substituted for 1
Cucumber Beetle		to 2 quarts of water in the finished spray.
Adults,	· ·	The second consequence is a consequence of the control of the cont
Cutworm Species,		Thorough coverage is essential to achieve control.
Fall Armyworm, Flea Beetle,		To Control Ear-Attacking Pests: Apply Bifen 25% EC-
Grasshoppers,		CAL just before silking and repeat as necessary to
Greenbug,		maintain control but do not exceed maximum application
Japanese Beetle		rates and reapplication intervals listed elsewhere in this
Adult,	•.	section.
Leafhoppers,		
Stinkbugs,		For Control Of Other Insect Pests: Apply when pests
Thrips,		first appear and repeat as necessary.
True Armyworm,		
or		Apply for Banks Grass Mite control when colonies first
Armyworm ,		form prior to leaf damage or discoloration and before
Species,	·	dispersal above the bottom third of the plant.
Webworms,		
Yellowstriped		For Twospotted Spider Mite and Carmine Mite control,
Armyworm	- 40 - 0 -	apply when colonies first form prior to leaf damage or
Banks Grass Mite,	5.12 to 6.4	discoloration and before widespread mite dispersal
Carmine Mite,	fl. oz. (0.08-	throughout the canopy. Higher rates will be necessary for
Twospotted Spider	0.10 lb. ai)	heavier initial populations and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb. active
Mite	per acre	per acre in tank mixture has demonstrated good control
		under these conditions.
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Restrictions:

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

SWEET CORN 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 (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-CAL needs per acre. Apply in a minimum of 3
Cutworm Species, Grubs, 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	gallons of finished spray per acre. Mix Bifen 25% EC-CAL 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-CAL, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture.
DESTRICTIONS:		Applications of Bifen 25% EC-CAL alone or in recommended tank mixtures, in conjunction with infurrow pop-up fertilizers may be used. A jar compatibility test should be performed with appropriate ratio of Bifen 25% EC-CAL and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.

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-CAL (pounds per acre)	0.060	0.064	0.069	0.080
Bifen 25% EC-CAL (formulated product ounces	3.9	4.1	4.4	5.12
per acre)	<u> </u>			<u> </u>

SWEET CORN SWEET CORN GROWN FOR SEED (FOLIAR USE)

Apply as directed using the rates in the table below.

<u> </u>	T	T
PEST	RATE	APPLICATION INSTRUCTIONS
Aphids, Army Cutworm, Beet Armyworm, Chinch Bug,	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.
Corn Earworm, Corn Rootworm Adults, Cucumber Beetle		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.
Adult, Cutworm Species,		Thorough coverage is essential to achieve control.
Fall Armyworm, Flea Beetle, Grasshoppers, Greenbugs, Leafhoppers, Stinkbugs,		To Control Ear-Attacking Pests: Apply Bifen 25% EC-CAL 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.
Thrips, True Armyworm or Armyworm Species, Webworms, Yellowstriped		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.
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.
IVIILE .		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:

- 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 apply within 18 days of harvest for sweet corn that is hand-harvested.
- 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.

CUCURBITS

Apply as directed using the rates in the table below.

CROP	PEST/RATE	APPLICATION INSTRUCTIONS
Chayote (fruit),	PESTS:	Apply in a minimum of 5 gallons of
Chinese waxgourd (Chinese	Aphids,	finished spray per acre by air or in a
preserving melon),	Armyworms,	minimum of 20 gallons per acre with
Citron melon,	Cabbage Looper,	ground equipment.
Cucumber,	Corn Earworm,	
Gherkin,	Cucumber Beetles,	When applying by air, 1 to 2 quarts
Gourd, edible (includes	Cutworms,	of emulsified oil may be substituted
hyotan, cucuzza);	Grasshoppers	for 1 to 2 quarts of water in the
(Luffa spp.) (includes	Leafhoppers,	finished spray.
hechima,	Melonworms,	<u>, </u>
Chinese okra),	Pickleworms,	Thorough coverage is essential to
(Momordica spp.)	Plant Bugs,	achieve control.
(includes balsam apple,	Rindworms,	
balsam pear, bitter melon,	Squash Bugs,	• • • •
Chinese cucumber),	Squash Vine Borer,	
Muskmelon (hybrids and/or	Stink Bugs,	
cultivars or <i>Cucumis melo</i>)	Tobacco Budworm,	·
(includes true cantaloupe,	,	
cantaloupe, casaba,	RATE:	•
crenshaw melon,	2.6 to 6.4 fl. oz. (0.04	
golden pershaw melon,	to 0.1 lb. ai) per acre	·
honeydew melon,	PESTS:	
honey balls, mango melon,	Whitefly,	
Persian melon, pineapple	Banks Grass Mite,	
melon, Santa Claus melon,	Twospotted spider	
and snake melon),	Mite,	
Pumpkin (<i>Cucurbita</i> spp.),	Carmine Mite,	
Squash, summer (includes	Lygus spp.	· .
crookneck squash, scallop	:	· · ·
squash, straightneck	RATE:	
squash, vegetable marrow,	5.12 to 6.4 fl. oz.	·
zucchini).	(0.08 to 0.1 lb. ai) per	,
Squash, winter (includes	acre	
butternut squash, calabaza,		
hubbard squash (<i>C. mixta;</i>		
C. pepo) (includes acorn	·	
squash, spaghetti squash),		
Watermelon (includes hybrids	·	
and/or varieties of <i>Citrullus</i>		}
spp.).		
RESTRICTIONS:		

RESTRICTIONS;

- Do not apply more than 0.3 lb. active ingredient (19.2 ounces formulated product) per acre
- 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.

LETTUCE, HEAD

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids, Armyworms, Cabbage Maggot, Corn Earworm, Cucumber Beetles, Cutworms, Diamondback Moth, Flea Beetle, Grasshopper, Imported Cabbageworm, Leafhoppers, Loopers, Salt marsh Caterpillar, Stink Bug spp., Thrips, 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.,	5.12 to 6.4 fl. oz.	
Carmine Mite,	(0.08 to 0.10 lb. ai)	
Twospotted Spider Mite	per acre	

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.

LIMA BEAN (GREEN)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Flea Beetle, 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
Plant Bug, Stink Bugs, Corn Earworm, Loopers, Whitefly	2.1 to 6.4 fl. oz. (0.033 to 0.10 lb. ai) per acre	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
Banks Grass Mite, Twospotted Spider Mite, Carmine Mite, Lygus spp.	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per acre	spray. Thorough coverage is essential to achieve control.

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.
- Do not apply within 9 days of harvest for peas/beans that are hand-harvested.]

PEPPERS, BELL AND NON-BELL

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids, Armyworms, Corn Earworm, Cucumber Beetle, Cutworms, Flea Beetle, Leafhoppers, Leafminers, Loopers, Pepper Weevil, Stink Bug spp., Tobacco Budworm, Thrips, Whitefly	2.1 to 6.4 fl. oz. (0.033 to 0.1lb. 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.
Lygus spp., Broad Mite, Carmine Mite,	5.12 to 6.4 fl. oz. (0.08 to 0.10 lb. ai) per	
Twospotted Spider Mite RESTRICTIONS:	acre	



- Do not make applications less than 7 days apart.
- Do not apply more than 0.20 pound active ingredient per acre per season.
- Do not apply within 7 days of harvest.

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