



U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460

EPA Reg. Number: 51036-433

Date of Issuance:

FEB 18 2005

Term of Issuance: Conditional

Name of Pesticide Product:

Bifenthrin 2E AG

(under FIFRA, as amended)

x Registration _ Reregistration

NOTICE OF PESTICIDE:

Name and Address of Registrant (include ZIP Code):

Micro Flo Company LLC PO Box 772099

Memphis, TN 38117

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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A), provided that you:

- Submit and/or cite all data required for registration/reregistration of your product 1. 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 you product under FIFRA section 4.
- Make the following labeling changes: 2.
 - Revise the EPA Registration Number to read "EPA Reg. No. 51036-433" a)
 - b) Replace "Inert Ingredients" with "Other Ingredients" within the Ingredient section.
 - Delete "In no case shall Micro Flo or the seller be liable for consequential, c) special, or indirect damages resulting from the use handling or application of this product" from the Warranty statement. This statement is overly broad and implies buyer has no legal right to recover damages from manufacturer and is unacceptable under statutory and regulatory standards. We recommend revising it to read "To the fullest extent permitted by law Micro Flo or the seller shall not be liable for anyetc" or "It is Micro Flo or the seller intention that Micro Flo or the seller shall in no case be liableetc".

Signature of Approving Official: George T. LaRocca, Product Manager (13), IB/RD (7505C)

Date: tel 18, 2005 3. Please submit two (2) copies of your final printed label for before your release 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.

Page 1 of 19

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.

BIFENTHRIN 2EC AG

This product contains 2 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

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

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

 	FIRST AID
If swallowed	Call a poison control center or doctor immediately for treatment advice.
	Do not induce vomiting unless told to do so by the 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 inhaled	Move person to fresh air.
	 If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice.
lf 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.
	NOTE TO PHYSICIAN

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

EMERGENCY NUMBERS:

- Transportation or spill, call CHEMTREC 800-424-9300.
- Human health, 800-832-HELP (4357).
- Animal health, call ASPCA at 800-345-4735.

Net Contents

Manufactured by: Micro Flo Company LLC PO Box 772099 Memphis, TN 38117

ACCEPTED with COMMENTS

with COMMENTS In EPALetter Dated FEB 18 2005

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

EPA Est. No. 51036-GA-001

EPA Reg. No. 51036-XXX

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

^{**}Contain xylene range aromatic solvents

Page 2 of 19

4/21

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals Warning

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 absorbed through skin or inhaled. Avoid breathing spray mist. Avoid contact with skin. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

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.
- 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.
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for deaning/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 run-off 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

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: 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 in 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 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:

- Coveralis
- Chemical-resistant gloves, such as barrier laminate, Nitrile rubber, neoprene rubber or Viton.
- · Shoes plus socks.

STORAGE AND DISPOSAL

Pesticide Storage: Do not freeze. Do not store below 40°F. If crystals are observed, warm material to above 60°F by placing in warm location. Shake or roll container periodically to redissolve solids.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

To Confine Spill: If liquid, dike surrounding area or absorb with sand, cat littler 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, Refillable Containers: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

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 manufacturers or other experts for consultation on the suitability of the equipment set up to obtain effective control of the target insect pests.

A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

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

Page 4 of 19

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

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Bifenthrin 2EC AG should be applied continuously for the duration of the water application. Bifenthrin 2EC AG 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 within 10 feet of the aquatic areas 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.

Page 5 of 19

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.

Rotational Crops

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

Tank-Mixture

Bifenthrin 2EC AG 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.

Application Instructions

Rate of application is variable according to pest pressure, timing of sprays, and field scouting. Use lower rates under light to moderate infestations; 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.

INDEX TO CROPS LISTED ON THIS LABEL

Artichokes

Brassicas

Caneberries

Canola, Crambe, Rapeseed

Citrus

Cotton

Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed (At Plant Use)

Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed (PRE & PPI)

Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed (Foliar Use)

Sweet Corn (Grain and Silage), Sweet Corn Grown for Seed (At Plant Use)

Sweet Corn (Grain and Silage), Sweet Corn Grown for Seed (Foliar Use)

Cucurbits

Eggplant

Grapes

Hops

Lettuce, Head

Pears

Peppers, Bell and Non-Bell

Spinach

Succulent Peas and Beans

Tomatoes

ARTICHOKES

	DOSAGE LB Al/A FL OZ/A				
PEST			REMARKS AND RESTRICTIONS		
Cribrate Weevil Artichoke Plume Moth	0.10	6.4	Apply when pest population reaches damaging threshold and repeat as necessary to maintain control, but not more often than 15 day intervals.		
			Application by ground: Apply a full cover spray in a minimum of 75 gallons of finished spray per acre.		
			Application by air: Apply specified dosage in a minimum of 10 gallons per acre.		
			Do not exceed 0.5 lb. Al/A per season.		
			A 5-day preharvest interval must be observed.		

BRASSICAS

		DOSAGE		
CROP	PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS
Head and Stem	Cutworms	0.033-0.10	2.1-6.4	Apply in a minimum of 2 gallons of finished spray per
Brassica	Corn Earworm			acre by air or in a minimum of 10 gallons per acre with
Vegetables	Tobacco			ground equipment. When applying by air, 1-2 quarts of
including:	Budworm			emulsified oil may be substituted for 1-2 quarts of water
Broccoli	Saltmarsh			in the finished spray. Thorough coverage is essential to
Chinese	Caterpillar			achieve control.
Broccoli	Leafhoppers			
(gai lon, white	Flea Beetles			Do not apply more than 0.5 lb active ingredient (1 quart)
flowering	Imported			per acre per season.
broccoli)	Cabbageworm			
Brussels	Cucumber	i		Do not make more than 5 applications after bloom.
Sprouts	Beetles		l	
Cauliflower	Aphids			Do not make applications less than 7 days apart.
Cavalo Broccolo	Whitefly			
Kohlrabi	Armyworms			Do not apply within 7 days of harvest.
Cabbage	Loopers		J	
Chinese	Stink Bugs	,		
Cabbage	Crickets			
(napa)	Ground			
Chinese	Beetles			
Mustard	Thrips			
Cabbage (gai	Wireworm			
choy)	(Adults)]
	Diamondback	:		
	Moth			
	Banks Grass	0.08-0.10	5.12-6.4	
	Mite			
	Twospotted			
	Spider Mite			
	Pacific Spider			
	Mite			
	Carmine Mite			
	Lygus spp.			

CANEBERRIES

-		DOSAGE		
CROP	PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS
CROP Caneberries including: Blackberries Bingleberries Dewberries Lowberries Marionberries Olallieberries Youngberries Loganberries Raspberries	Leafrollers Orange Tortrix Root Weevils	0.05-0.10	3.2-6.4	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. Do not exceed 0.2 lb. Al/A per season. Do not apply within 3 days of harvest.
	Spider Mites	0.10	6.4	

CANOLA, CRAMBE, RAPESEED

	DOS	SAGE					
PEST	LB AI/A FL OZ/A		REMARKS AND RESTRICTIONS				
Aphids	0.033-0.04	2.1-2.6	Apply in a minimum of 2 gallons of finished spray per acre by air or				
Cutworms			in a minimum of 10 gallons per acre with ground equipment. When				
Diamondback	İ		applying by air, 1-2 quarts of emulsified oil may be substituted for				
Moth			1-2 quarts of water in the finished spray. Thorough coverage is				
Loopers	1		essential to achieve control.				
Other							
Lepidopterous			Do not apply more than 0.08 lb active ingredient (5.12 ounces				
Larvae			formulated product) per acre per season. Do not make				
Flea Beetle			applications less than 14 days apart.				
Flea Hopper							
Grasshopper			Do not apply within 35 days of harvest.				
Plant Bug							
Stink Bugs							
Seedpod Weevil							
Thrips	1						
Whitefly							
Armyworms							

CITRUS

	CUTIO	
PEST	DOSAGE	REMARKS AND RESTRICTIONS
Diaprepes Root Weevil (Diaprepes abbreviatus) Fire Ants Asian Cockroach	16-32 ounces (0.25-0.50 pound active) per acre	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 of Diaprepes root weevil may also occur in the fall.

Page 8 of 19

If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring, 32 fluid ounces formulated product should be used to obtain the longest residual management of Diaprepes root weevil.

If the citrus grove to be treated is in an area where weather conditions will promote more than one peak of pest emergence, 16 fluid ounces formulated product can be applied early season and 16 fluid ounces formulated product can be applied later in the season.

If emergence extends beyond the residual protection of BIFENTHRIN 2EC AG, grower is advised to use additional management strategies (i.e. foliar adult control or soil larvae control such as nematodes). Contact your state agricultural Extension Specialist as to the recommendation suited for local conditions.

Do not apply through irrigation systems.

Do not allow any application of BIFENTHRIN 2EC AG to contact fruit or foliage.

Do not apply more than a total of 32 fluid ounces of formulated product (0.5 lb. a.i.) per acre per year.

Apply the specified dosage in a minimum of 30 gallons of finished spray per acre.

Ground application only. Do not apply by air.

Do not apply within 1 day of harvest.

COTTON

	DOS	AGE_		
PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS	
European Corn Borer	0.02-0.10	1.3-6.4	BIFENTHRIN 2EC AG may be applied in water	
Soybean (Banded) Thrips			or refined vegetable oil (soybean/cottonseed).	
Tobacco Thrips				
			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	0.04-0.10	2.6-6.4		
Bollworm			ULV Application: Apply the recommended rate	
Cabbage Looper			of BIFENTHRIN 2EC AG in refined vegetable oil	
Cotton Aphid	1		in a minimum of 1 quart of finished spray per	
Cotton Fleahopper	'		acre with aircraft calibrated to give adequate	
Cotton Leafperforator			coverage.	
Cutworms				

Page 9 of 19

Fall Armyworm			To Control Boll Weevil: Apply BIFENTHRIN
Plant Bugs		ļ	2EC AG at an interval of 3 to 4 days until pest
Saltmarsh Caterpillar			numbers are reduced to acceptable levels.
Southern Garden Leafhopper			
Stink Bugs		}	To Control Mites and Aphids: Apply when
Tobacco Budworm			pests first appear. Repeat as necessary to
Whitefly		}	maintain control. Higher rates will be required
Yellow Striped Armyworm			once a damaging threshold is established.
Beet Armyworm	0.06-0.10	3.8-6.4	Do not apply more than 0.5 pound active
Carmine Spider Mite			ingredient per acre per season.
Lygus spp.			
Pink Bollworm			Do not make more than 10 synthetic pyrethroid
Twospotted Spider Mite			applications (of one product or combination of
	1		products) to a cotton crop in one growing
			season. Synthetic pyrethroid products include
	Í		Ambush [®] , Ammo [®] , Asana [®] XL, Baythroid [®] ,
			Capture [®] , Danitol [®] , Karate [®] , Mustang [®] , and
		1	Scout X-TRA®.
<i>.</i>	{	}	Do not graze livestock in treated areas or cut
			treated crops for feed.
•			
			Do not apply within 14 days of harvest.

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

PEST	DOS	AGE		REMARKS AND RESTRICTIONS					
Corn Rootworm, Larvae Northern Southern Western	0.0046 lb Al per 1,000 linear feet of row	0.30 fluid ounces per 1,000 linear feet of row	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 BIFENTHRIN 2EC AG needs per acre. Apply in a minimum of 3 gallor of finished spray per acre. Mix BIFENTHRIN 2EC AG with water or fertilizer in the following manners.						
Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	0.0023 to 0.0046 Ib Al per 1,000 linear feet of row	0.15 to 0.30 fluid ounces per 1,000 linear feet of row	Applications of BIFENTHRIN 2EC AG 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 BIFENTHRIN 2EC AG and fertilizer to ensure mixture will stay in solution Constant agitation should be maintained during mixing and application.						
Do not a plant ap				f treatment. ply more than	0.1 pound ac	dive per acre	per season as an at		
Bifenthrin 2EC AG (pounds		0.060	0.064	0.069	0.080				

12/21

Bifenthrin 2EC AG (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-Plant Incorporated (PPI) & Pre-Emergence (PRE)

PEST	DOSAGE		REMARKS AND RESTRICTIONS			
Black Cutworm White Grub Wireworm Seedcorn Maggot Armyworm spp. Stalkborer	0.047 to 0.062 pound Al/A Pre-Plant Incorporate d (PPI)	3 to 4 fl. oz./A Pre- Plant Incorporate d (PPI)	The 3-4 oz./A rate must be applied as PPI and can be tankmixed and applied with PPI herbicides. Incorporation of BIFENTHRIN 2EC AG should not be any deeper than the intended planting depth and no deeper than 3 inches. Incorporation depth should be close to the intended seed planting depth.			
Black Cutworm Armyworm spp. Stalkborer	0.040 LB AI/A Pre- emergence (PRE)	2.56 FL. OZ./A Pre- emergence (PRE)	The 2.56 oz/A rate may be applied PRE and can be tankmixed and applied with PRE herbicides.			

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

	DOSAGE		
PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS
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 Greenbug Japanese Beetle Adult Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stinkbugs Tarnished Plant Bug True Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm	UB AI/A 0.033-0.10	2.1-6.4	Apply in a minimum of 2-5 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, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. To Control Ear-Attacking Pests: Apply BIFENTHRIN 2EC AG just before silking and repeat as necessary to maintain control. Southwestern Corn Borer, European Corn Borer: Make application for corn borer control with initial application at or shortly before egg hatch. For Control of Other Insect Pests: Apply when pests first appear and repeat as necessary. For Control of Mites: Apply for Banks Grass Mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant. For Twospotted Spider Mite and Carmine Mite Control: Apply when colonies first form prior to leaf damage or discoloration and before wide-spread 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.
Banks Grass Mite	0.08-0.10	5.12-6.4	For Mite Control in Texas, New Mexico, Oklahoma, and
Carmine Mite			Arizona: Apply in a minimum of 5 gallons of finished spray

Page 11 of 19

Twospotted Spider Mite	per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment.
	Do not apply more than 0.3 pound active per acre per season including PRE& PPI at plant plus foliar applications.
	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 Bifenthrin 2EC AG on corn is prohibited in all coastal counties.
	Do not apply within 30 days of harvest.

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

PEST	DOS	AGE		REI	MARKS AND	RESTRICTIO	NS
Corn Rootworm, Larvae	0.0046	0.30	Apply as a	5 to 7 inch T	-band treatme	ent over an ope	en seed furrow.
Northern	pound	fluid	1			•	n front of the press
Southern	active	ounce	wheel cen	tered over the	e row. Use th	e table below t	o determine the
Western	per	s per	BIFENTH	RIN 2EC AG	needs per acr	e. Apply in a r	ninimum of 3 gallons
	1,000	1,000	of finished	spray per ac	re.		
	linear	linear					_
	feet of	feet of	1				the following manner.
	row	row	1 '		-		ater or liquid fertilizer,
				•			en add the rest of the
		}				agitation during	mixing and
			1 ''		a uniform spra	-	
Army Cutworm	0.0023	0.15 to					commended tank
Cutworm Species	to	0.30	•	•			zers may be used. A
Grubs Seed Corn Beetle	0.0046 pound	fluid ounce		-		med with appro	re will stay in solution.
Seed Corn Maggot	active	s per	1				ing and application.
True Armyworm or	per	1,000	Constant	agitation snot	iid be mantai	nea daning mix	ing and application.
Armyworm Species	1,000	linear	Do not an	nly to soil whe	ere there is an	eater than 30%	cover of crop residue
Wireworm	linear	feet of	remaining	•	5,0 (1,0,0 to gr	outor than our	s so tel di diop residue
1	feet of	row	1011101111119	•			
	row		Do not ap	ply within 30 o	days of harve	st.	
			Do not ara	ze livestock i	n treated area	or cut treated	crops for feed within
			_	f treatment.	,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		sispo for foca within
		}	Do not an	oly more than	0.1 pound ac	tive ner acre n	er season as an at
			plant appli		o. i pound ac	mire per acre p	ei seasuii as ali at
Row Spacings (inches				40	38	36	30
BIFENTHRIN 2EC AG (po				0.060	0.064	0.069	0.080
BIFENTHRIN 2EC AG (fo	mulated o	unces pe	r acre)	3.9	4.1	4.4	5.12

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

	DOSA		
PEST	LB AVA	FL OZ/A	REMARKS AND RESTRICTIONS
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 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	0.033-0.10	2.1-6.4	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, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. To Control Ear-Attacking Pests: Apply BIFENTHRIN 2EC AG when silking begins and repeat as necessary to maintain control. Southwestern Corn Borer, European Corn Borer: Make 2 applications for corn borer control 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. For Control of Mites: Apply for Banks Grass Mites control when colonies first form from 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.
Banks Grass Mite Carmine Mite Twospotted Spider Mite	0.08-0.10	5.12-6.4	Higher rates will be necessary for heavier initial populations and corn under heat or drought stress. Do not apply more than 0.2 pounds active ingredient (12.8 ounces formulated product) per acre per season. Do not graze livestock in treated areas or cut treated crops for feed within 1 day 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 BIFENTHRIN 2EC AG on corn is prohibited in all coastal counties. Do not apply within 1 day of harvest.

	DOSAGE			
CROP	PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS
Chayote (fruit)	Aphids	0.04-0.10	2.6-6.4	Apply in a minimum of 5 gallons of finished
Chinese waxgourd	Cutworm	ļ		spray per acre by air or in a minimum of 20
(Chinese preserving	Cabbage Looper			gallons per acre with ground equipment.
melon)	Leafhoppers			When applying by air, 1-2 quarts of emulsified
Citron melon	Cucumber Beetles		ļ	oil many be substituted for 1-2 quarts of water
Cucumber	Squash Bugs	}		in the finished spray. Thorough coverage is
Gherkin	Melonworm			essential to achieve control.
Gourd, edible	Pickleworm			
(includes hyloan,	Plant Bug			Do not apply more than 0.3 lb active ingredier
cucuzza), (Luffa	Stink Bugs	}		(19.2 ounces formulated product) per acre pe
spp.) (includes	Rindworm			season.
hechima, Chinese	Squash Vine Borer			
okra), (Momordica	Armyworms			Do not make more than two applications after
spp.) (includes	Corn Earworm	{		bloom.
balsam apple,	Tobacco Budworm			
balsam pear, bitter	Grasshopper			Do not make applications less than 7 days
melon, Chinese				apart.
cucumber)				
Muskmelon (hybrids				Do not apply within 3 days of harvest.
and/or cultivars				
of Cucumis melo)] .		
(includes				
true cantaloupe,				
cantaloupe,				
casaba, crenshaw				

true cantaloupe, cantaloupe, casaba, crenshaw meton, golden, pershaw meton, honeydew meton, honey balls, mango meton, Persian meton, pineappte meton, Santa Claus meton, and snake meton)

Pumpkin (Cucurbita spp.)

Squash, summer
(includes crookneck
squash, scallop
squash, straightneck
squash, vegetable
marrow, zucchini)
Squash, winter
(includes butternut
squash, calabaza,
hubbard squash
(C. mixte; C. pepo),

includes acorn squash, spaghetti

squash) Watermelon,

Page 14 of 19

				_ Page 14 of 19
	Whitefly Banks Grass Mite Twospotted Spider Mite Carmine Mite Lygus spp.	0.08-0.10	5.12-6.4	
-				

EGGPLANT

	DOSAGE		
PEST	LB Al/A	FL OZ/A	REMARKS AND RESTRICTIONS
Colorado Potato	0.033-0.10	2.1-6.4	Apply in a minimum of 2 gallons of finished spray per acre by air or in
Beetle	ļ ,		a minimum of 10 gallons per acre with ground equipment. When
Com Earworm			applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2
European Corn			quarts of water in the finished spray. Thorough coverage is essential
Borer	ĺ		to achieve control.
Flea Beetle			
Cabbage Looper	}		Do not make applications less than 7 days apart.
Cucumber Beetle			
Tomato Pinworm			Do not apply more than 0.2 lb active ingredient (12.8 ounces
Tomato Hornworm			formulated product) per acre per season.
Vegetable Leafminer			
Whitefly	į į		Do not apply within 7 days of harvest.
Armyworms	1		
Plant Bug	Ì		
Stink Bug	ĺ		
Thrips			
Banks Grass Mite	0.08-0.10	5.12-6.4	
Twospotted Spider	-		
Mite	{		
Carmine Mite			
Pacific Spider Mite]		
Lygus spp.			

Page 15 of 19

	DOS	AGE	
PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS
Eastern Grape Leafhopper Variegated Leafhopper Western Grape Leafhopper	0.05 to 0.10	3.2 to 6.4	Apply in a minimum of 10 gallons of finished spray by air or ir 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 Glasywinged Sharpshooter Twospotted Spider Mite	0.10	6.4	Thorough coverage is essential to achieve control. When pest pressure is moderate to severe, use higher rate. Do not apply more than 0.10 lb ai per acre per season. Do not apply within 30 days of harvest.

HOPS

	DOSAGE		
PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS
Aphids	0.06-0.1	3.8-6.4	Do not exceed 0.1 lb ai per acre per application.
Armyworms			Do not exceed 0.3 lb ai per acre per season.
Cutworms]	J	
Leafrollers Loopers			A spray interval of 21 days between applications must be maintained.
Root Weevils	0.05-0.1	3.2-6.4	A 14 day pre-harvest interval must be observed.
			Application by ground: For best results, full coverage is essential. Early
Twospotted spider mite	0.1	6.4 season recommend 100-	season recommend 100-150 gallons of spray per acre. Late season recommend 200-250 gallons of spray 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.
			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.

LETTUCE, HEAD

	DOSAGE		
PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS

18/2

Aphids	0.033-0.10	2.1-6.4	Apply in water as necessary for insect control using a minimum of 15
Armyworms			gallons of finished spray per acre with ground equipment and 5
Corn Earworm]		gallons per acre by air. When applying by air, 1-2 quarts of
Cucumber Beetles			emulsified oil may be substituted for 1-2 quarts of water in the
Cutworms			finished spray. Thorough coverage is essential to achieve control.
Diamondback Moth			
Flea Beetles			Do not make applications less than 7 days apart.
Imported			
Cabbageworm			A maximum of 0.5 lb active ingredient may be applied per acre per
Leafhoppers			season.
Loopers			
Salt Marsh			Do not apply within 7 days of harvest.
Caterpillar			
Stink Bug spp.			
Tobacco Budworm			
Whitefly			
Lygus, spp.	0.08-0.10	5.12-6.4	7
Carmine Mite			
Twospotted Spider			
Mite	<u> </u>		

PEARS

	DOSAGE		
PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS
Aphids	0.04 to 0.2	2.6 to 12.8	Application by ground: Apply as a dilute (minimum of 200 gallons of
Coddling Moth			finished spray per acre) or concentrate (minimum of 50 gallons of finished
Cutworms			spray per acre) spray in sufficient water to provide thorough coverage.
Green			
Fruitworm	İ		Application by air: Apply the specified dosage in a minimum of 10
Leafhoppers			gallons per acre by air.
Leafminers			
Leafrollers			Do not apply more than 0.5 pound active per acre per season with no
Lygus spp.			more than 0.45 pound active per acre applied after petal fall.
Plant Bugs			
Plum Curculio			Apply as necessary to maintain control using a minimum of 30 day spray
San Jose			interval.
Scale (Crawlers)			
Stink Bugs			Do not graze livestock in treated orchards or cut treated cover crops for
Tarnished			feed.
Plant Bugs			
Twospotted Spider Mite	0.06 to 0.2	8.8 to 12.8	Apply up to 14 days prior to harvest.
Yellow Mite			
European Red Mite	0.08 to 0.2	5.12 to	
		12.8	

PEPPERS, BELL AND NON-BELL

	DOSAGE		
PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS

Page 17 of 19

			rage 17 Of 19
Armyworms Corn Earworm	0.033-0.1	2.1-6.4	Apply using sufficient water to obtain uniform coverage. Apply as needed. Apply with ground equipment using a minimum of 10 gallons of finished
Cucumber			spray per acre or a minimum of 2 gallons per acre by aircraft.
Beetles		ĺ	
Cutworms			Do not make applications less than 7 days apart.
European Corn		J	
Borer			Do not apply more than 0.20 pound active ingredient per acre per season.
Flea Beetles			
Leafminers	{	}	Do not apply within 7 days of harvest.
Loopers			
Pepper Weevil	1		
Thrips	1	1	
Whitefly			
Lygus spp.	0.8-0.10	5.12-6.4	
Broad Mite			
Carmine Mite		•	
Twospotted		1	·
Spider Mite			
- F			
	1		<u> </u>

SPINACH

		SFINACH
PESTS	DOSAGE	REMARKS AND RESTRICTIONS
Colorado Potato Beetle Tomato Pinworm Tomato Homworm Armyworms Corn Earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips Whitefly	2.1 to 6.4 ounces (0.033 to 0.10 pound active) per acre	For control of whitefiles apply foliar treatments of BIFENTHRIN 2EC AG 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 BIFENTHRIN 2EC AG to the soil (at planting) or as a foliar treatment 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. 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 air or 10-50 gallons of finished spray per acre by ground.
Broad Mite Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus spp. Fire Ants	5.12 to 6.4 ounces (0.08 to 0.10 pound active) per acre	Do not apply more than 0.4 pounds active ingredient per acre per season. Do not apply within 40 days of harvest.

Page 18 of 19

SUCCULENT PEAS AND BEANS

	1		AGE	S AND BEANS
CROP	PEST	LB AI/A	FL OZ/A	REMARKS AND RESTRICTIONS
Pea (Pisum spp.) Dwarf pea Edible-pod pea English pea	Flea Beetle Grasshoppers Aster Leafhopper	0.025-0.10	1.6-6.4	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, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achiev
Garden pea Green pea Snow pea	Leafhoppers Aphids Beet	0.033-0.10	2.1-6.4	control.
Sugar snap pea Pigeon pea Bean (Phaseolus	Armyworm Fall Armyworm		•	Do not apply more than 0.2 lb active ingredient (12.8 ounces formulated product) per acre per season.
spp.): Broadbean	Southern Armyworm Yellowstriped			Do not apply within 3 days of harvest.
(succulent) Lima bean (green)	Armyworm Bean Leaf Beetle	1		
Runner bean Snap bean Wax bean	Cucumber Beetles Japanese		·	
Bean (Vigna spp.): Asparagus bean	Beetle (Aduit)	1		
Blackeyed pea Chinese Iongbean	Sap Beetle Plant Bug Stink Bugs			
Cowpeas Moth bean Southern pea	Tarnished Plant Bug Alfaifa			
Yardlong bean Jackbean	Caterpillar Cloverworm			
Soybean (immature seed) Sword bean	European Corn Borer Cutworms			
	Western Bean Cutworm Corn Earworm			
	Loopers Corn			
	Rootworm (Adult) Thrips			
	Webworms Pea Weevil Pea Leaf			
	Weevil Whitefly			
	Banks Grass Mite Twospotted	0.08-0.10	5.12-6.4	:
	Spider Mite Carmine Mite Lygus spp.		*	

TOMATOES

	TOMATOES	
PEST	DOSAGE	REMARKS AND RESTRICTIONS
Aphids	2.1-5.2 fluid ounces (0.033-	Apply in water as necessary for insect
Armyworms – Including:	0.08 pound active) per acre	control using a minimum of 15 gallons of
Beat Armyworm, Fall		finished spray per acre with ground
Armyworm, Southern		equipment.
Yellowstriped Armyworm	J	
Bean Leaf Beetle		Thorough coverage is essential to achieve
Cabbageworm		control.
Carmine Mite		
Cloverworm		Do not make applications less than 10 days
Corn Earworm		apart.
Corn Rootworm		
Cucumber Beetles		A maximum of 4 applications may be
Cutworms		applied per season.
Diamondback Moth		
European Corn Borer		Do not apply within 1 day of harvest.
Flea Beetles		
Flea Hopper		
Grasshopper		·
Japanese Beetle (Adult)		
Leafhoppers		
Loopers		
Lygus spp.		'
Melonworm		
Pea Weevil		:
Pea Leaf Weevil		
Pickleworm		
Plant Bug		
Rindworm		
Salt Marsh Caterpillar		•
Sap Beetle	}	·
Seedpod Weevil		
Squash Bugs		
Stink Bug spp.	}	:
Tobacco Budworm	1	
Tarnished Plant Bug		
Thrips		
Two Spotted Spider Mite]:
Whitefly		

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The Directions For Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of MICRO FLO COMPANY LLC ("Micro Flo") or the Seller. All such risks shall be assumed by the Buyer. Micro Flo warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks, referred to above. MICRO FLO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL MICRO FLO OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. Micro Flo and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of Micro Flo.

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