

 <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsylvania Ave. N.W. Washington, D.C. 20004</p> <p style="text-align: center;"><b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration</p> <p>(under FIFRA, as amended)</p>	<p>EPA Reg. Number: <b>5481-517</b></p>	<p>Date of Issuance: <b>DEC 23 2003</b></p> <p>Date of Expiration: <b>November 15, 2004</b></p>
	<p>Term of Issuance: <b>Conditional</b></p>	
	<p>Name of Pesticide Product: <b>Discipline™ 2EC</b></p>	
<p>Name and Address of Registrant (include ZIP Code):</p> <p><b>AMVAC Chemical Corporation 4695 MacArthur Court, Suite 1250 Newport Beach, CA 92660</b></p>		
<p><b>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.</b></p> <p>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.</p> <p><b>This product is <u>conditionally</u> registered in accordance with FIFRA sec. 3(c)(7)(A), subject to the following provisions:</b></p> <ol style="list-style-type: none"> <li><b>You must submit and/or cite all data required for registration 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 you product under FIFRA section 4.</b></li> <li><b>You agree that the subject registration is conditional under the same terms and conditions for data generation as stipulated in the Agency's November 15, 1993 letter for use of Capture 2EC (EPA Reg. No. 279-3069) on cotton.</b></li> <li><b>You agree that the current synthetic pyrethroid mitigation measures are interim in nature and may be reconsidered or modified after review and evaluation of the Spray Drift Task Force data.</b></li> <li><b>You understand that this registration will expire on November 15, 2004. You further understand that it is the US EPA's intent to, by November 15, 2004, complete its review of all relevant data and other information that are available to the Agency, and to make FIFRA §3 (c) (5) or other appropriate regulatory decisions for cotton-use synthetic pyrethroids and other crops conditionally registered, based on the Agency's review of such data/information and considering statutory and regulatory criteria for such decisions.</b></li> </ol>		
<p>Signature of Approving Official: <i>Susan L. Stanton, for George T. LaRocca</i></p>	<p>Date: <b>DEC 23 2003</b></p>	

You will submit additional studies and information, which are negotiable pending further discussions and an agreed upon detailed Workplan between the Agency and the Pyrethroid Working Group, to be conducted, where appropriate, in accordance with the 40 CFR Part 158 Test Guidelines.

- 5. You will submit production information (pounds or gallons produced) for the subject product for the fiscal year in which the uses are conditionally registered, in accordance with FIFRA §29. The fiscal year begins October 1 and ends September 30. The production information is to be submitted to the Agency no later than November 15 following the end of the preceding fiscal year. The information will be submitted to:

US Environmental Protection Agency  
 Office of Pesticide Program (7504C)  
 Document Processing Desk  
 Ariel Rios Building  
 1200 Pennsylvania Avenue, NW  
 Washington, D. C. 20460

- 6. You must make the following label changes:
  - a. Delete the horizontal lines within the last column of the table for "Succulent Peas and Beans" on pages 15/16, since the remarks in this column apply to all dosages/pests.
  - b. Correct the typographical error in the second to last sentence of the "Remarks" column in the table for "Lettuce, Head" on page 19. Change "pre" to "per", so that it reads "*A maximum of 0.5 lb. active ingredient may be applied per acre per season*", not "*... pre season*".
- 7. You must submit two copies of your final printed label before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

Failure to satisfy any of the conditions imposed on this registration (e.g., failure to submit the required information/data by the specified deadlines or the data submitted were not generated in accordance with the applicable test guidelines), may result in the Agency canceling your registration under FIFRA section 6(e).

Page 3  
EPA Reg. No. 5481-517

A stamped copy of the label is enclosed for your records. If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely,

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

Enclosures

**RESTRICTED USE PESTICIDE**  
**Toxic to Fish and Aquatic Organisms**  
For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

**DISCIPLINE™ 2EC**

For use on artichokes, beans, brassicas, caneberries, canola, citrus, corn, cotton, crambe, curcubits, eggplant, head lettuce, hops, pears, peas, peppers, rapeseed spinach, and tomatoes to control a range of insects and mites.

**This product is not for sale or use in the State of California.**

**ACTIVE INGREDIENT:**

**Bifenthrin**

(2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate\* .....25.1%

**INERT INGREDIENTS\*\*** ..... 74.9%

**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.

**FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:**  
Transportation: CHEMTREC..... 1-800-424-9300  
Other: AMVAC ..... 1-323-264-3910

**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.)

EPA Reg. No. 5481-517  
EPA Est. No. \_\_\_\_\_

Made in U.S.A.

NET WEIGHT/U.S. Standard Measure

**ACCEPTED**  
with **COMMENTS**  
In EPA Letter Dated:  
**DEC 23 2003**  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5481-517

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**FIRST AID**

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**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 a doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

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

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

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-323-264-3910 for emergency medical treatment information.

**Note to Physician:**

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

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**PRECAUTIONARY STATEMENTS**

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**HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)**

**WARNING:** May be fatal if swallowed. Harmful if inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing.

**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.

6/27

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

- Long-sleeved shirt and long pants.
- Chemical-resistance gloves, such as Barrier Laminate or Nitrile Rubber or 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-resistance gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton.
- Shoes plus socks, and
- 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 if bees are 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 or Chemical Hazards**

Do not use or store near heat or open flame.

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**DIRECTIONS FOR USE**

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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 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) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls,
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, and
- Shoes plus socks.

## 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 container 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. Call Chemtrec 1-800-424-9300

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

### **Pesticide Disposal**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### **Container Disposal**

**Metal or Plastic Container:** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

**U-Turn® Container:** Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

## 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 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 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.

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. Discipline 2EC should be applied continuously for the duration of the water application. Discipline 2EC 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.

## **Rotational Crops**

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

## **Tank-Mixture**

Discipline 2EC 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.

## **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 pond. 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 application 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 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.

**COTTON**

Pest	Dosage	
	LB AI/A	FL OZ/A
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	0.02-0.10	1.3-6.4
Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworm Fall Armyworm Plant Bug Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bug Tobacco Budworm Whitefly Yellow Striped Armyworm	0.04-0.10	2.6-6.4
Beet Armyworm Carmine Spider Mite Lygus Spp. Pink Bollworm Twospotted Spider Mite	0.06-0.10	3.8-6.4

**RESTRICTIONS-Cotton**

Do not apply more than 0.5 pound active 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 combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include Ambush<sup>®</sup>, Ammo<sup>®</sup>, Asana<sup>®</sup> XL, Baythroid<sup>®</sup>, Capture<sup>®</sup>, Danitol<sup>®</sup>, Karate<sup>®</sup>, Mustang<sup>®</sup>, and Scout X-TRA<sup>®</sup>.

**REMARKS-Cotton**

Discipline 2EC 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.

**ULV Application:** Apply the recommended rate of Discipline 2EC 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 Discipline 2EC at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels.

**To Control Mites and Aphids:** Apply when pests first appear. Repeat as necessary to maintain control. Higher rates will be required once a damaging threshold is established.

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

PEST	DOSAGE		REMARKS			
	LB AI/A	FL OZ/A				
Corn Rootworm Larvae Northern Southern Western	0.0046 pound active per 1,000 linear feet of row	0.30 fluid ounces per 1,000 linear feet of row	<p>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 Discipline 2EC needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. Mix Discipline 2EC 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 Discipline 2EC, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture.</p> <p>Applications of Discipline 2EC 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 Discipline 2EC and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.</p> <p>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.</p>			
Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	0.0023 to 0.0046 pound active per 1,000 linear feet of row	0.15 to 0.30 fluid ounces per 1,000 linear feet of row				
Row Spacings (inches)			40	38	36	30
Discipline 2EC (pounds ai per acre)			0.060	0.064	0.069	0.080
Discipline 2EC (formulated ounces per acre)			3.9	4.1	4.4	5.12

**FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED  
(PRE & PPI)**

PEST	DOSAGE		REMARKS
	LB AI/A	FL OZ/A	
Black Cutworm White Grub Wireworm Seedcorn Maggot	0.047-0.062 Pre-Plant incorporated (PPI)	3-4 Pre-Plant Incorporated (PPI)	<p>The 3-4oz/A must be applied as PPI and can be tank-mixed and applied with PPI herbicides.</p> <p>Incorporation of Discipline 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</p>

			planting depth.
Black Cutworm	0.040 Pre-Emergence (PRE)	2.56 Pre-Emergence (PRE)	The 2.56 oz/A rate may be applied PRE and can be tank-mixed and applied with PRE herbicides

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

PEST	DOSAGE	
	LB A/A	FL OZ/A
Aphids	0.033-0.10	2.1-6.4
Army Cutworm		
Beet Armyworm		
Cereal Leaf Beetle		
Chinch Bug		
Common Stalk Borer		
Corn Earworm		
Corn Rootworm Adult		
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	0.08-0.10	5.12-6.4
Tarnished Plant Bug		
True Armyworm or Armyworm Species		
Webworms		
Western Bean Cutworm		
Yellowstriped Armyworm		
Banks Grass Mite		
Carmine Mite		
Twospotted Spider Mite		

**RESTRICTIONS—Corn**

Do not apply more than 0.3 pound active 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 Discipline 2EC on corn is prohibited in all coastal counties.

**REMARKS—CORN**

**General:** 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 corn ear-attacking pests:** Apply Discipline 2 EC 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 Two-spotted 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.

**For mite control in Texas, New Mexico, Oklahoma, 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.

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

PEST	DOSAGE		REMARKS			
Corn Rootworm Larvae Northern Southern Western	0.0046 pound active per 1,000 linear feet of row	0.30 fluid ounces per 1,000 linear feet of row	<p>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 Discipline 2EC needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. Mix Discipline 2EC 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 Discipline 2EC, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of Discipline 2EC 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 Discipline 2EC and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.</p> <p>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.</p>			
Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	0.0023 to 0.0046 pound active per 1,000 linear feet of row	0.15 to 0.30 fluid ounces per 1,000 linear feet of row				
Row Spacings (inches)			40	38	36	30
Discipline 2EC (pounds ai per acre)			0.060	0.064	0.069	0.080
Discipline 2EC (formulated ounces per acre)			3.9	4.1	4.4	5.12



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

17/27

PEST	DOSAGE	
	LB A/A	FL OZ/A
Aphids	0.033-0.10	2.1-6.4
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		
Webworm		
Western Bean Cutworm		
Yellowstriped Armyworm		
Banks Grass Mite	0.08-0.10	5.12-6.4
Carmine Mite		
Twospotted Spider Mite		

**RESTRICTIONS—Sweet Corn**

Do not apply more than 0.2 pounds active ingredient (12.8 ounces formulated) 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 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 Discipline 2EC on corn is prohibited in all coastal counties.

**REMARKS—Sweet Corn**

**General:** 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 corn ear-attacking pests:** Apply Discipline 2EC 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 Mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.

For Two-spotted 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.

**SUCCULENT PEAS AND BEANS**

CROP	PEST	DOSAGE		REMARKS
		LB/ A/A	FL OZ/A	
Pea (Pisum spp.): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea	Flea Beetle Grasshoppers Aster Leafhoppers Leafhoppers	0.025-0.10	1.6-6.4	Apply Discipline 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. Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) per acre per season. Do not apply within 3 days of harvest.
	Aphids Beet Armyworm Fall Armyworm Southern Armyworm Yellowstriped Armyworm			
Pigeon Pea Bean (Phaseolus spp.): Broadbean (succulent) Lima bean (green) Runner bean, Snap bean, Wax bean	Bean Leaf Beetle Cucumber Beetles Japanese Beetle Adult Sap Beetle Plant Bug Stink Bugs	0.033-0.10	2.1-6.4	
Bean (Vigna spp.): Asparagus bean, Blackeyed pea, Chinese longbean, Cowpea, Moth bean, Southern pea, Yardlong bean	Tarnished Plant Bug Alfalfa Caterpillar Cloverworm European Corn Borer Cutworms Western Bean Cutworm			

Jackbean Soybean (immature seed) Sword bean	Corn Earworm Loopers Corn Rootworm Adult Thrips Webworms Pea Weevil Pea Leaf Weevil Whitefly			
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Lygus Spp	0.08-0.10	5.12-6.4	

**BRASSICAS**

CROP	PEST	DOSAGE		REMARKS
		LB A/A	FL OZ/A	
Head and Stem Brassica Vegetables including: Broccoli Chinese Broccoli (gai lon, white flowering broccoli) Brussels Sprouts Cauliflower Cavalo broccolo Kohlrabi Cabbage Chinese Cabbage (napa) Chinese Mustard Cabbage (gai choy)	Cutworms Corn Earworm Tobacco Budworm Saltmarsh Caterpillar Leafhoppers Flea Beetles Imported Cabbageworm Cucumber Beetles Aphids Whitefly Armyworms Loopers Stink Bugs Crickets Ground Beetles Thrips Wireworm (adults) Diamondback Moth	0.033-0.10	2.1-6.4	Apply Discipline 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. 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.
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	0.08-0.10	5.12-6.4	

20/27

**CANOLA, CRAMBE, RAPESEED**

CROP	PEST	DOSAGE		REMARKS
		LB A/A	FL OZ/A	
Canola Crambe Rapeseed	Aphids Cutworms Diamondback Moth Loopers Other Lepidopterous Larvae Flea Beetle Flea Hopper Grasshopper Plant Bug Stink Bugs Seedpod Weevil Thrips Whitefly Armyworms	0.033-0.04	2.1-2.6	Apply Discipline 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. 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.

**CUCURBITS**

CROP	PEST	DOSAGE		REMARKS
		LB A/A	FL OZ/A	
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> app.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber)	Aphids Cutworm Cabbage Looper Leafhoppers Cucumber Beetle Squash Bug Melonworm Pickleworm Plant Bug Stink Bug Rindworm Squash Vine Borer Armyworm Corn Earworm Tobacco Budworm Grasshopper	0.04-0.10	2.6-6.4	Apply Discipline 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. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. Do not apply more than 0.3 lb. active ingredient (19.2 ounces formulated) 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.
Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i> ) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus)	Whitefly Banks Grass Mite Two-spotted Spider Mite Carmine Mite Lygus Spp.	0.08-0.10	5.12-6.4	

melon, and snake melon) Pumpkin (Cucurbita app.) Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini) Squash, winter (includes butternut squash, calabaza, hubard squash (C. mixta; C. pepo) includes acorn squash, spaghetti squash) Watermelon (includes hybrids and/or varieties of Citrullus spp.)			
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**EGGPLANT**

CROP	PEST	DOSAGE		REMARKS
		LB A/A	FL OZ/A	
Eggplant	Colorado Potato Beetle Corn Earworm European Corn Borer Flea Beetle Cucumber Beetle Cabbage Looper Tomato Pinworm Tomato Hornworm Vegetable Leafminer Whitefly Armyworm Plant Bug Stink Bug Thrips	0.033-0.10	2.1-6.4	Apply Discipline 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. Do not make applications less than 7 days apart. Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) per acre per season. Do not apply within 7 days of harvest.
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	0.08-0.10	5.12-6.4	

## LETTUCE, HEAD

PEST	DOSAGE		REMARKS
	LB A/A	FL OZ/A	
Aphids Armyworm Corn Earworm Cucumber Beetle Cutworm Diamondback Moth Flea Beetle Imported Cabbageworm Leafhopper Looper Saltmarsh Caterpillar Stink Bug Spp. Tobacco Budworm Whitefly	0.033-0.10	2.1-6.4	Apply Discipline 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, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. Do not make applications less than 7 days apart. A maximum of 0.5 lb. active ingredient may be applied per acre pre season.
Lygus Spp. Carmine Mite Two-spotted Spider Mite	0.08-0.10	5.12-6.4	Do not apply within 7 days of harvest.

## CANE BERRIES

CROP	PEST	DOSAGE		REMARKS
		LB A/A	FL OZ/A	
Caneberries including: Blackberries Bingleberries Dewberries Lowberries Marionberries Olallieberries Youngberries Loganberries Raspberries	Leafroller Orange Tortrix Root Weevil	0.05-0.10	3.2-6.4	Apply Discipline 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 apply within 3 days of harvest. Do not exceed 0.2 lb ai per acre per season.
	Spider Mites	0.10	6.4	

## ARTICHOKE

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

**PEPPERS, BELL AND NON-BELL**

PEST	DOSAGE		REMARKS
	LB AI/A	FL OZ/A	
Armyworm Corn Earworm Cucumber Beetle Cutworm European Corn Borer Flea Beetle Leafminer Looper Pepper Weevil Thrips Whitefly	0.033-0.10	2.1-6.4	Apply Discipline 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. Do not make applications less than 7 days apart. Do not apply more than 0.20 pound active ingredient per acre per season.
Lygus Spp. Broad Mite Carmine Mite Twospotted Spider Mite	0.08-0.10	5.12-6.4	Do not apply within 7 days of harvest.

**HOPS**

PEST	DOSAGE		REMARKS
	LB AI/A	FL OZ/A	
Aphids Armyworm Cutworm Leafroller Looper	0.06-0.10	3.8-6.4	Do not exceed 0.1 lb. ai per acre per application. Do not exceed 0.3 lb. ai per acre per season.
Root Weevil	0.05-0.10	3.2-6.4	A spray interval of 21 days between applications must be maintained.
Two-spotted Spider Mite	0.10	6.4	A 14 day pre-harvest interval must be observed. <b>Application by ground:</b> 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. 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. <b>Application by air for late season control of two-spotted spider mites:</b> 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.

PEARS

24/27

PEST	DOSAGE		REMARKS
	LB A/A	FL OZ/A	
Aphids Codling Moths Cutworms Green Fruitworms Leafhoppers Leafminers Leafroller Lygus spp. Plant Bugs Plum Curculio San Jose Scale (Crawlers) Stink Bugs Tarnished Plant Bugs	0.04-0.2	2.6-12.8	<p><b>Application by ground:</b> 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.</p> <p><b>Application by air:</b> Apply the specified dosage in a minimum of 10 gallons per acre by air.</p> <p>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. Apply as necessary to maintain control using a minimum of 30 day spray interval. Apply up to 14 days prior to harvest. Do not graze livestock in treated orchards or cut treated cover crops for feed.</p>
Two-spotted Spider Mite Yellow Mite	0.06-0.2	3.8-12.8	
European Red Mite	0.08-0.2	5.12-12.8	

CITRUS (1 DAY PHI)

Insects Controlled	Rate of Application	Method of Application
Diaprepes root weevil ( <i>Diaprepes abbreviatus</i> ) Fire Ants Asian cockroach	16-32 oz. (0.25 -0.50 pound active) per acre	<p>Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer.</p> <p>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.</p> <p>If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergency occurring in the spring, 32 fluid ounces formulated product should be used to obtain the longest residual management of Diaprepes root weevil.</p> <p>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.</p> <p>If emergence extends beyond the residual protection of Discipline 2EC, 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 condition</p>



Do not apply through irrigation systems.  
 Do not allow any application of Discipline 2EC 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.

**TOMATOES (1 DAY PHI)**

Insects Controlled	Rate of Application	Method of Application
Aphids Armyworms (including Beet Armyworm, Fall Armyworm, Southern Yellow-Striped Armyworm) Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer 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 Tarnished Plant Bug Thrips Two-Spotted Spider Mite Whitefly	2.1-5.2 fluid ounces (0.033 –0.08 pound active) per acre	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment. Thorough coverage is essential to achieve control.

Do not make applications less than 10 days apart.  
 A maximum of 4 applications may be applied per season.

**SPINACH (40 DAY PHI)**

26/27

Insects Controlled	Rate of Application	Method of Application
Colorado Potato Beetle Tomato Pinworm Tomato Hornworm Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips Whitefly	2.1-6.4 ounces (0.033-0.10 pound active) per acre	For control of whiteflies, apply foliar treatments of Discipline 2EC insecticide 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. Do not apply within 40 days of harvest.  For control of fire ants, apply Discipline 2EC insecticide 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. Do not apply within 40 days of harvest.
Broad Mite Banks Grass Mite Two-Spotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp. Fire Ants	5.12-6.4 ounces (0.08-0.10 pound active) 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.
Do not make applications less than 7 days apart. Do not apply more than 0.4 pounds active ingredient per acre per season.		

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

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

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