

5481-517

2/9/2007

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

FEB 9 2007

Ms. Kaila Rex, Product Manager  
Amvac Chemical Corp.  
4695 MacArthur Court, Suite 1250  
Newport Beach, CA 92660

SUBJECT: Application for Pesticide Notification (PRN 98-10)  
Request Alternate Brand Name "Discipline CA"  
EPA Reg. No. 5481-517  
Application Dated December 12, 2006

Dear: Ms. Rex,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 12/12/06 for the above product. The Registration Division (RD) has conducted a preliminary screen of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
Environmental Protection Agency  
Washington, DC 20460

- Registration
- Amendment
- Other

OPP Identifier Number

**Application for Pesticide - Section I**

<b>1. Company/Product Number</b> 5481-517	<b>2. EPA Product Manager</b> George LaRocca	<b>3. Proposed Classification</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
<b>4. Company/Product (Name)</b> Discipline 2EC	<b>PM#</b> 13	
<b>5. Name and Address of Applicant (Include Zip Code)</b> Amvac Chemical Corporation 4695 MacArthur Court, Suite 1250 Newport Beach, CA 92660  <input type="checkbox"/> Check if this is a new address		<b>6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:</b>  EPA Reg. No. _____  Product Name _____

**Section - II**

- Amendment - Explain below
- Final printed labels in response to Agency letter dated \_\_\_\_\_
- Resubmission in response to Agency letter dated \_\_\_\_\_
- "Me Too" Application
- Notification - Explain below
- Other - Explain below

**Explanation: Use additional page(s) if necessary. (For Section I and Section II.)**  
 Notification of Alternate Brand Name. Discipline CA will be an alternate brand name for Discipline 2EC (EPA Reg. No. 5481-517)

**Section - III**

<b>1. Material This Product Will Be Packaged In:</b>			
<b>Child-Resistant Packaging</b> <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No  * Certification must be submitted	<b>Unit Packaging</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If "Yes" Unit Packaging wt.    No. per container	<b>Water Soluble Packaging</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If "Yes" Package wt.    No. per container	<b>2. Type of Container</b> <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input checked="" type="checkbox"/> Other (Specify) _____
<b>3. Location of Net Contents Information</b> <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	<b>4. Size(s) Retail Container</b>	<b>5. Location of Label Directions</b> <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
<b>6. Manner in Which Label is Affixed to Product</b> <input type="checkbox"/> Lithographed <input type="checkbox"/> Stenciled <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Other _____			

**Section - IV**

<b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</b>		
<b>Name</b> Kaila Rex	<b>Title</b> Product Manager	<b>Telephone No. (Include Area Code)</b> 949-221-6108
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		<b>8. Date Application Received (Stamped)</b>  _____ _____ _____ _____
<b>2. Signature</b> 	<b>3. Title</b> Product Manager	
<b>4. Typed Name</b> Kaila Rex	<b>5. Date</b> 12-Dec-04	

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

- Registration
- Amendment
- Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 5481-517	2. EPA Product Manager George LaRocca	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Discipline 2EC	PM# 13	
5. Name and Address of Applicant (Include Zip Code) Amvac Chemical Corporation 4695 MacArthur Court, Suite 1250 Newport Beach, CA 92660  <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____

### Section - II

- |  |  |
|--|--|
| <input type="checkbox"/> Amendment - Explain below                             | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application  |
| <input checked="" type="checkbox"/> Notification - Explain below               | <input type="checkbox"/> Other - Explain below   |

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

Notification of Alternate Brand Name. Discipline CA will be an alternate brand name for Discipline 2EC (EPA Reg. No 5481-517)

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input checked="" type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wt.    No. per container	If "Yes" Package wt.    No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithographed <input type="checkbox"/> Stenciled <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Other _____			

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Kaila Rex	Title Product Manager	Telephone No. (Include Area Code) 949-221-6108
<p style="text-align: center;"><b>Certification</b></p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.</p>		8. Date Application Received (Stamped)
2. Signature 	3. Title Product Manager	
4. Typed Name Kaila Rex	5. Date 29-Jan-07	



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12 December 2006

Mr. George LaRocca  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
One Potomac Yard  
2777 S. Crystal City  
Arlington, VA 22202

**Subject: Notification of Alternate Brand Name for:  
Discipline 2EC  
EPA Reg. No. (5481-517)  
Discipline CA (Alternate Brand Name)**

Dear George:

Please find enclosed the notification of the Alternate Brand Name Discipline CA for Discipline 2EC (EPA Reg. No. 5481-517).

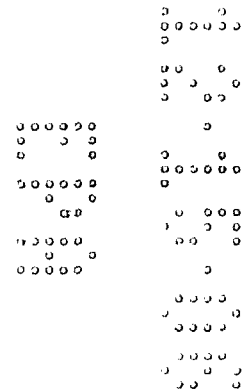
In support of this notification, please find the following documents enclosed:

- Application for Pesticide Registration (EPA form 8570-1)
- Labeling for the Alternate Brand Name, Discipline CA (Ref. No. 434-061211r1.ABN)

Please feel free to contact me if you have any questions at 1-949-221-6108 or email [kailar@amac-chemical.com](mailto:kailar@amac-chemical.com). Thank you for your attention to this matter.

Best Regards,

Kaila Rex  
Product Manager



**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® CA

For use on beans, brassicas, canberries, canola, citrus, corn, cotton, crambe, cucurbits, head lettuce, peas, peppers, and rapeseed \ to control a range of insects and mites.

**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%

Contains petroleum distillate

*\*Cis isomers 97% minimum, trans isomers 3% maximum.*

*\*\*Contains xylene range aromatic solvents.*

This product contains 2 pounds active ingredient per gallon.

ALL WEATHER FORMULA

## KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

This label must be in the possession of the user at the time of application.  
See other panels for additional precautionary information.

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. **5481-AL-1**

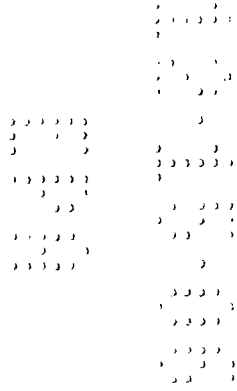
Net Weight:

As Marked on Container

Made in U.S.A.



4100 E. Washington Blvd.  
Los Angeles, CA 90023 U.S.A  
1-323-264-3910 • www.amvac-chemical.com



<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>EMERGENCY INFORMATION</b>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:</p> <p>Transportation: CHEMTREC.....1-800-424-9300</p> <p>Other: AMVAC.....1-323-264-3910</p>	
<b>NOTE TO PHYSICIAN</b>	
<p>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 distillate – vomiting may cause aspiration pneumonia.</p>	

**PRECAUTIONARY STATEMENTS**

**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. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

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

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

- Long-sleeved shirt and long pants.
- Chemical-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 AND 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.

**Pest Resistance:** Pests have demonstrated the ability to develop resistance to continual use of the same product or to products with a similar mode of action. In order to avoid conditions which favor development of pest resistance, follow established resistance management guidelines in your geography as recommended by state agricultural extension personnel and crop consultants. If product performance diminishes and pest resistance is suspected to have developed in your geography, and specifically on your crop, repeated use of this product may not adequately control the target pest. As soon as practical, contact your local crop consultant, agricultural advisor, or company representative to obtain information on alternative pest management strategies in your geography.

### 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.

**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 Low Energy Precision Application (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. Product should be applied continuously for the duration of the water application. Product 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.

**Special Equipment**

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



**Rotational Crops**

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**

Product 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 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 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		
PESTS	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 Lygus spp 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 Pink Bollworm Twospotted Spider Mite	0.06-0.10	3.8-6.4

**REMARKS-Cotton**

Product 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.

**To control Boll Weevil:** Apply this product 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.

**RESTRICTIONS-Cotton**

Do not apply more than 0.3 pound active per acre per season.

Do not make more than 3 applications 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®, Ammo®, Asana® XL, Baythroid®, Capture®, Danitol®, Karate®, Mustang®, Pounce and Scout X-TRA®.

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

PEST	DOSAGE			
	LB AI/A	FL OZ/A		
Western Corn Rootworm Larvae	0.0046 pound active per 1,000 linear feet of row	0.30 fluid ounces per 1,000 linear feet of row		
Cutworm spp Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm spp 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
Product (pounds ai per acre)	0.060	0.064	0.069	0.080
Product (formulated ounces per acre)	3.9	4.1	4.4	5.12

**REMARKS**

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 product needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. Mix product 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 product, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of this product 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 product and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.

**RESTRICTIONS**

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

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

PEST	DOSAGE	
	LB AI/A	FL OZ/A
Aphids	0.033-0.10	2.1-6.4
Beet Armyworm		
Chinch Bug		
Corn Earworm		
Corn Rootworm Adult		
Cucumber Beetle Adult		
Cutworm Species		
Fall Armyworm		
Flea Beetle		
Grasshoppers		
Greenbug		
Leafhoppers		
Stinkbugs		
Thrips		
True Armyworm and Armyworm spp.		
Webworms		
Yellowstriped Armyworm		

Banks Grass Mite Carmine Mite Twospotted Spider Mite	0.08-0.10	5.12-6.4
Western Corn Rootworm Larvae	0.08-.010 (Chemigation Only)	5.12 - 6.4 (Chemigation Only)

**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 ear-attacking pests:** Apply this product just before silking and repeat as necessary to maintain control.

**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.

**To control Western Corn Rootworm Larvae by Chemigation use only:** Apply at or closely following corn rootworm egg hatch in a minimum of 1 inch irrigation water per acre.

**RESTRICTIONS—Corn**

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

Do not apply within 30 days of harvest.

Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.

Use of ultra low volume (ULV) application on corn is prohibited.

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

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

PEST	DOSAGE	
	LB AI/A	FL OZ/A
Black Cutworm White Grub Wireworm Seedcorn Maggot Armyworm spp. Common Stalk Borer	0.047-0.062 Pre-Plant incorporated (PPI)	3-4 Pre-Plant Incorporated (PPI)
Black Cutworm Armyworm spp. Common Stalk Borer	0.040 Pre-Emergence (PRE)	2.56 Pre-Emergence (PRE)

**REMARKS**

The 3-4oz/A rate must be pre-plant incorporated (PPI) and can be tank-mixed and applied with PPI herbicides. Incorporation of this product into the soil should be close to the intended seed planting depth and no deeper than 3 inches.

The 2.56 oz/A rate may be applied PRE and can be tank-mixed and applied with PRE herbicides

SWEET CORN SWEET CORN GROWN FOR SEED (AT PLANT USE)				
PEST	DOSAGE			
	LB AI/A	FL OZ/A		
Western Corn Rootworm Larvae	0.0046 pound active per 1,000 linear feet of row	0.30 fluid ounces per 1,000 linear feet of row		
Cutworm spp. Grubs Seed Corn Maggot True Armyworm and Armyworm spp. 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
Product (pounds ai per acre)	0.060	0.064	0.069	0.080
Product (formulated ounces per acre)	3.9	4.1	4.4	5.12
<p><b>REMARKS</b> 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 product needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. Mix this product 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 product, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of Product 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 product and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.</p> <p><b>RESTRICTIONS</b> 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>				

SWEET CORN SWEET CORN GROWN FOR SEED (FOLIAR USE)		
PEST	DOSAGE	
	LB AI/A	FL OZ/A
Aphids	0.033-0.10	2.1-6.4
Army Cutworm		
Beet Armyworm		
Chinch Bug		
Corn Earworm		
Corn Rootworm Adults		
Cucumber Beetle Adult		
Cutworm Species		
Fall Armyworm		
Flea Beetle		
Grasshoppers		
Greenbug		
Leafhoppers		
Stinkbugs		
Thrips		
True Armyworm and Armyworm spp.		
Webworm		
Yellowstriped Armyworm		

Banks Grass Mite Carmine Mite Pacific Spider Mite Twospotted Spider Mite	0.08-0.10	5.12-6.4
Western Corn Rootworm Larvae	0.08 - .010 (Chemigation Only)	5.12- 6.4 (Chemigation Only)

**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 ear-attacking pests:** Apply this product when silking begins and repeat as necessary to maintain control.

**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.

**To control Western Corn Rootworm Larvae by Chemigation use only:** Apply at or closely follow corn rootworm egg hatch in a minimum of 1 inch irrigation water per acre.

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

Do not graze livestock in treated areas or cut treated crops for feed within 1 day of 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.

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

**REMARKS**

Apply this product 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.

**RESTRICTIONS**

Do not apply more than 0.08 lb. active ingredient (5.12 ounces) per acre per season.  
Do not make applications less than 14 days apart.  
Do not apply within 35 days of harvest.

<b>CUCURBITS</b>			
<b>CROP</b>	<b>PEST</b>	<b>DOSAGE</b>	
		<b>LB A/A</b>	<b>FL OZ/A</b>
Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Citron melon Cucumber Gherkin Gourd, edible (includes hyotan, cucuzza) ( <i>Luffa</i> spp.) (includes hechima, Chinese okra) ( <i>Momordica</i> spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber) Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i> ) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon) Pumpkin ( <i>Cucurbita</i> spp.) Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini) Squash, winter (includes butternut	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
	Whitefly Banks Grass Mite Two-spotted Spider Mite Carmine Mite Lygus spp.	0.08-0.10	5.12-6.4

<b>CUCURBITS</b>			
squash, calabaza, hubard squash ( <i>C. mixta</i> ; <i>C. pepo</i> ) includes acorn squash, spaghetti squash) Watermelon (includes hybrids and/or varieties of <i>Citrullus</i> spp.)			
<b>REMARKS</b> Apply this product 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.			
<b>RESTRICTIONS</b> 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.			

<b>LETTUCE, HEAD</b>			
<b>PEST</b>	<b>DOSAGE</b>		
	<b>LB AI/A</b>	<b>FL OZ/A</b>	
Aphids	0.033-0.10	2.1-6.4	
Armyworm			
Cabbage Maggot			
Corn Earworm			
Cucumber Beetle			
Cutworm			
Diamondback Moth			
Flea Beetle			
Grasshoppers			
Imported Cabbageworm			
Leafhopper			
Looper			
Saltmarsh Caterpillar			
Stink Bug spp.			
Thrips			
Tobacco Budworm			c c c c c
Whitefly			c c c c
Lygus spp.	0.08-0.10	5.12-6.4	c c c c c
Carmine Mite			c c c c c
Two-spotted Spider Mite			c c c c c



**REMARKS**

Apply this product 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.

**RESTRICTIONS**

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

**LIMA BEAN (GREEN)**

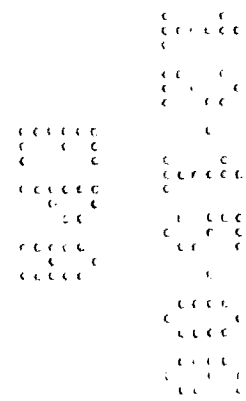
CROP	PEST	DOSAGE	
		LB/ AI/A	FL OZ/A
Lima bean (green)	Flea Beetle Leafhoppers	0.025-0.10	1.6-6.4
	Plant Bug Stink Bugs Corn Earworm Loopers Whitefly	0.033-0.10	2.1-6.4
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Lygus spp	0.08-0.10	5.12-6.4

**REMARKS**

Apply this product 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.

**RESTRICTIONS**

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



BRASSICAS			
CROP	PEST	DOSAGE	
		LB AI/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)	Cutworms Corn Earworm Saltmarsh Caterpillar Flea Beetles Imported Cabbageworm Whitefly Armyworms Loopers Crickets Diamondback Moth	0.033-0.10	2.1-6.4
	Lygus spp.	0.08-0.10	5.12-6.4

**REMARKS**

Apply this product 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.

**RESTRICTIONS**

Do not apply more than 0.5 lb. active ingredient (1 quart) per acre per season.  
 Do not make more than 5 applications after bloom.  
 Do not make applications less than 7 days apart.  
 Do not apply within 7 days of harvest.

CANE BERRIES			
CROP	PEST	DOSAGE	
		LB AI/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
	Spider Mites	0.10	6.4

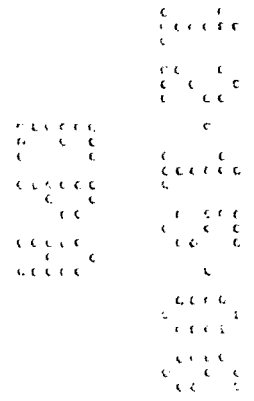
**REMARKS**

Apply product 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.

**RESTRICTIONS**

Do not apply within 3 days of harvest.  
 Do not apply within 4 days of harvest for caneberries that are hand-harvested.

PEPPERS, BELL AND NON-BELL		
PEST	DOSAGE	
	LB AI/A	FL OZ/A
Aphids Armyworm Corn Earworm Cucumber Beetle Cutworm Flea Beetle Leafhopper Leafminer Looper Pepper Weevil Stinkbug spp. Thrips Tobacco budworm Whitefly	0.033-0.10	2.1-6.4
Lygus Spp. Carmin Mite Twospotted Spider Mite	0.08-0.10	5.12-6.4
<b>REMARKS</b> Apply this product 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.		
<b>RESTRICTIONS</b> Do not make applications less than 7 days apart. Do not apply more than 0.20 pound active ingredient per acre per season. Do not apply within 7 days of harvest.		



### STORAGE AND DISPOSAL

**Pesticide Storage :** Do not freeze or store product below 40°F. If crystals are observed, gradually warm product to above 60°F by placing container in a warmer location. Gently 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.

**Returnable product Container:** Do not attempt to rinse returnable container, break, tamper with container seals or empty any remaining product contents from remaining product contents from container. Return container intact to point of purchase.

**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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