

5481-517

1/16/2014

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

OFFICE OF CHEMICAL SAFETY AND
POLLUTION PREVENTION

January 16, 2014

Mr. Christopher Davis
AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200
Newport Beach, CA 92660

Subject: Notification – Adding Alternate Brand Name
Discipline 2EC Insecticide
EPA Registration Number: 5481-517
Date of Submission: November 27, 2013

Dear Mr. Davis:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration (PRN)98-10 dated November 27, 2013, for the above mentioned product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions 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 regarding this letter, please contact BeWanda Alexander at (703) 305-7460 or e-mail alexander.bewanda@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "BeWanda Alexander" followed by a stylized flourish.

Richard Gebken
Product Manager Team 10
Insecticide Branch
Registration Division (7505P)



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 Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Discipline 2EC Insecticide	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) AMVAC Chemical Corporation 4695 MacArthur Court, Suite 1200 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: <input checked="" type="checkbox"/> 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: Xpedient FC

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
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		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 gal, 15 gal		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 checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<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 Christopher Davis	Title Registration Manager	Telephone No. (include Area Code) 949-221-6144
Certification 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. Date Application Received (Stamped)
2. Signature 	3. Title Registration Manager	
4. Typed Name Christopher Davis	5. Date 11/27/10	

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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

(Alternate Brand Name: Xpedient[™] FC[™])

For use on artichokes, beans, brassicas, caneberries, canola, citrus, corn, cotton, crambe, cucurbits, eggplant, head lettuce, hops, pears, peas, peppers, rapeseed, soybeans, spinach, tomatoes and tuberous and corm vegetables to control listed 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%

TOTAL100.0%

Contains petroleum distillate

*Cis isomers 97% minimum, trans isomers 3% maximum.
**Contains xylene range aromatic solvents.

NOTIFICATION
JAN 16 2014

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.

©



FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
EMERGENCY INFORMATION	
<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>For Medical Emergencies, phone:.....1-888-681-4261</p> <p>For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC®.....1-800-424-9300</p> <p>For Product Use Information phone : AMVAC®.....1-888-462-6822</p>	
NOTE TO PHYSICIAN	
<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.

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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 wash waters.

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.

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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.

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.

Buffer Zones

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other perennial vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: *Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp. www.in.nrcs.usda.gov/technical/agronomy/newconfuf.pdf*

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

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

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Spray Drift Requirements

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into temperature inversions.

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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.

Droplet Size

Use spray nozzles producing medium or coarse droplet sizes (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

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

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

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and aerial applicator safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for applicator safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

COTTON (For use in California see 'California Use Directions' section of this label)		
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 species Pink Bollworm	0.06-0.10	3.8-6.4

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Twospotted Spider Mite

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.
ULV Application: Apply the recommended rate of this product 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 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 0.5 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®, 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) (For use in California see 'California Use Directions' section of this label)				
PEST	DOSAGE			
	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		
Army Cutworm Cutworm species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm and 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
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

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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 (PRE & PPI)

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

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FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (FOLIAR USE) (For use in California see 'California Use Directions' section of this label)

PEST	DOSAGE	
	LB AI/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		
Leafhoppers		
Sap Beetle		
Southern Armyworm		
Southern Corn Leaf Beetle		
Southwestern Corn Borer		
Stinkbugs		
Thrips		
Tarnished Plant Bug		
True Armyworm and Armyworm species		
Webworms		
Western Bean Cutworm		
Yellowstriped Armyworm		
Banks Grass Mite	0.08-0.10	5.12-6.4
Carmine Mite		
Twospotted Spider Mite		
Corn Rootworm Larvae	0.08-0.10	5.12-6.4
- Northern	(Chemigation Use Only)	(Chemigation Use Only)
- Southern		
- Western		

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 this product just before silking and repeat as necessary to maintain control.

To control Southwestern Corn Borer and European Corn Borer: Make initial application for corn borer control at or shortly before egg hatch and repeat as necessary.

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

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FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (FOLIAR USE) (For use in California see 'California Use Directions' section of this label)		
PEST	DOSAGE	
	LB AI/A	FL OZ/A
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.		
To control 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 0.3 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 this product on corn is prohibited in all coastal counties.		

SWEET CORN SWEET CORN GROWN FOR SEED (AT PLANT USE) (For use in California see 'California Use Directions' section of this label)				
PEST.	DOSAGE			
	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		
Army Cutworm Cutworm species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm and 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
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

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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.

SWEET CORN

SWEET CORN GROWN FOR SEED (FOLIAR USE)

(For use in California see 'California Use Directions' section of this label)

PEST	DOSAGE	
	LB AI/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		
Leafhoppers		
Japanese Beetle Adult		
Sap Beetle		
Southern Armyworm		
Southern Corn Leaf Beetle		
Southwestern Corn Borer		
Stinkbugs		
Thrips		
Tarnished Plant Bug		
True Armyworm and Armyworm species.		
Webworm		
Western Bean Cutworm		
Yellowstriped Armyworm		
Banks Grass Mite	0.08-0.10	5.12-6.4
Carmine Mite		
Twospotted Spider Mite		
Corn Rootworm Larvae	0.08-0.10	5.12-6.4
- Northern	(Chemigation Use Only)	(Chemigation Use Only)

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SWEET CORN
SWEET CORN GROWN FOR SEED (FOLIAR USE)
 (For use in California see 'California Use Directions' section of this label)

- Southern
- Western

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 this product when silking begins and repeat as necessary to maintain control.

To control Southwestern Corn Borer and 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.

To control 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—Sweet Corn

Do not apply more than 0.2 pounds active ingredient (12.8 ounces formulated) per acre per season.

Do not apply within 1 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 this product on corn is prohibited in all coastal counties.

SUCCULENT PEAS AND BEANS

CROP	PEST	DOSAGE	
		LB/ AI/A	FL OZ/A
Pea (Pisum species): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea	Flea Beetle	0.025-0.10	1.6-6.4
	Grasshoppers Aster Leafhoppers Leafhoppers		
Pigeon Pea Bean (Phaseolus species): Broadbean (succulent) Lima bean (green) Runner bean, Snap bean, Wax bean	Aphids	0.033-0.10	2.1-6.4
	Beet Armyworm		
	Fall Armyworm		
	Southern Armyworm		
	Yellowstriped Armyworm		
	Bean Leaf Beetle		
	Cucumber Beetles		
	Japanese Beetle		
	Adult		
	Sap Beetle		
Plant Bug			
Stink Bugs			
Tarnished Plant			

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Bean (Vigna species): Asparagus bean, Blackeyed pea, Chinese longbean, Cowpea, Moth bean, Southern pea, Yardlong bean Jackbean Soybean (immature seed) Sword bean	Bug Alfalfa Caterpillar Cloverworm European Corn Borer Cutworms Western Bean Cutworm Corn Earworm Loopers Corn Rootworm Adult Thrips Webworms Pea Weevil Pea Leaf Weevil Whitefly		
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Lygus species	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.

BRASSICAS (For use in California see 'California Use Directions' section of this label)			
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) 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

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	Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus species	0.08-0.10	5.12-6.4
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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.

CANOLA, CRAMBE, RAPESEED

CROP	PEST	DOSAGE	
		LB AI/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

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.

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CUCURBITS					
CROP	PEST	DOSAGE			
		LB A/A	FL OZ/A		
Chayote (fruit)	Aphids	0.04-0.10	2.6-6.4		
Chinese waxgourd	Cutworm				
(Chinese preserving melon)	Cabbage Looper				
Citron melon	Leafhoppers				
Cucumber	Cucumber Beetle				
Gherkin	Squash Bug				
Gourd, edible (includes hyotan, cucuzza)	Melonworm				
(<i>Luffa</i> species)	Pickleworm				
(includes hechima, Chinese okra)	Plant Bug				
(<i>Momordica</i> species)	Stink Bug				
(includes balsam apple, balsam pear, bitter melon, Chinese cucumber)	Rindworm				
Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i>)	Squash Vine Borer				
(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)	Armyworm				
Pumpkin (<i>Cucurbita</i> species)	Corn Earworm				
Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini)	Tobacco Budworm				
Squash, winter (includes butternut squash, calabaza, hubard squash (<i>C. mixta</i> ; <i>C. pepo</i>) includes acorn squash, spaghetti squash)	Grasshopper				
Watermelon (includes hybrids and/or varieties of <i>Citrullus</i> species)	Whitefly			0.08-0.10	5.12-6.4
	Banks Grass				
	Mite				
	Two-spotted Spider Mite				
	Carmin Mite				
	Lygus species				

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CUCURBITS

REMARKS

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.

RESTRICTIONS

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.

GRAPES (Not for Use in California)

PEST	DOSAGE	
	LB AI/A	FL OZ/A
Eastern Grape Leafhopper Variegated Leafhopper Western Grape Leafhopper Cutworms Grape Berry Moth Japanese Beetle Adults	0.05 to 0.10	3.2 to 6.4
Black Vine Weevil Glassywinged Sharpshooter Twospotted Spider Mite	0.10	6.4

REMARKS

Apply this product in a minimum of 10 gallons of finished spray per acre by air or in a minimum of 25 gallons per acre with ground equipment.

When applying by air, 1 to 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.

When pest pressure is moderate to severe, use higher rate within the rate range.

RESTRICTIONS

Do not apply more than 0.10 active ingredient per acre per season.
 Do not apply within 30 days of harvest.

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EGGPLANT			
CROP	PEST	DOSAGE	
		LB AI/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
	Banks Grass Mite Twospotted Spider Mite Carmin Mite Pacific Spider Mite Lygus species	0.08-0.10	5.12-6.4
<p>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.</p> <p>RESTRICTIONS 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.</p>			

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

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CANE BERRIES (For use in California see 'California Use Directions' section of this label)			
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 this 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 exceed 0.2 lb ai per acre per season.

ARTICHOKE		
PEST	DOSAGE	
	LB AI/A	FL OZ/A
Cribrate Weevil Artichoke Plume Moth	0.10	6.4

REMARKS
Apply this product when pest population reaches damaging threshold and repeat as necessary to maintain control, but not more often than 15 day intervals.
Application by ground: Apply a full cover spray in a minimum of 75 gallons of finished spray per acre.
Application by air: Apply specified dosage in a minimum of 10 gallons per acre.

RESTRICTIONS
Do not exceed 0.5 lb ai per acre per season.
Do not apply within 5 days of harvest.

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PEPPERS, BELL AND NON-BELL (For use in California see 'California Use Directions' section of this label)		
PEST	DOSAGE	
	LB AI/A	FL OZ/A
Aphids Armyworm Corn Earworm Cucumber Beetle Cutworm European Corn Borer Flea Beetle Leafhopper Leafminer Looper Pepper Weevil Stinkbug species Thrips Tobacco budworm Whitefly	0.033-0.10	2.1-6.4
Lygus species Broad Mite Carmin Mite Twospotted Spider Mite	0.08-0.10	5.12-6.4
<p>REMARKS 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.</p> <p>RESTRICTIONS Do not make applications less than 7 days apart. Do not apply more than 0.2lb active ingredient per acre per season. Do not apply within 7 days of harvest.</p>		

HOPS		
PEST	DOSAGE	
	LB AI/A	FL OZ/A
Aphids Armyworm Cutworm Leafroller Looper	0.06-0.10	3.8-6.4
Root Weevil	0.05-0.10	3.2-6.4
Two-spotted Spider Mite	0.10	6.4

<p>HOPS</p> <p>REMARKS</p> <p>A spray interval of 21 days between applications must be maintained</p> <p>Application by ground: For best results, full coverage is essential. Early season recommend 100-150 gallons of spray per acre. Late season recommend 200-250 gallons of spray per acre.</p> <p>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.</p> <p>Application by air for late season control of two-spotted spider mites: Apply no less than 6.4 oz. (0.1 lb. ai) per application in a minimum of 10 gallons per acre.</p> <p>RESTRICTIONS</p> <p>Do not exceed 0.1 lb. ai per acre per application.</p> <p>Do not exceed 0.3 lb. ai per acre per season.</p> <p>Use of ultra low volume (ULV) application on hops is prohibited.</p> <p>Do not apply within 14 days of harvest.</p>
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PEARS		
PEST	DOSAGE	
	LB AI/A	FL OZ/A
Aphids	0.04-0.2	2.6-12.8
Codling Moths		
Cutworms		
Green Fruitworms		
Leafhoppers		
Leafminers		
Leafroller		
Lygus species		
Plant Bugs		
Plum-Curculio		
San Jose Scale (Crawlers)		
Stink Bugs		
Tarnished Plant Bugs		
Two-spotted Spider Mite	0.06-0.2	3.8-12.8
Yellow Mite		
European Red Mite	0.08-0.2	5.12-12.8
<p>REMARKS</p> <p>Application by ground: Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) spray in sufficient water to provide thorough coverage.</p> <p>Application by air: Apply the specified dosage in a minimum of 10 gallons per acre by air.</p> <p>RESTRICTIONS</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.</p> <p>Apply as necessary to maintain control using a minimum of 30 day spray interval.</p> <p>Do not graze livestock in treated orchards or cut treated cover crops for feed.</p> <p>Do not apply within 14 days of harvest.</p>		

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CITRUS I (for Florida see Citrus Table II)	
Insects Controlled	Rate 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>REMARKS</p> <p>Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer. Peak emergence of Diaprepes root weevil generally occurs in the spring. Depending on weather conditions, a minor emergence of Diaprepes root weevil may also occur in the fall.</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 this product, 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> <p>RESTRICTIONS</p> <p>Do not apply through irrigation systems.</p> <p>Do not allow any application of this product to contact fruit or foliage.</p> <p>Do not apply more than a total of 32 fluid ounces of formulated product (0.5 lb. a.i.) per acre per year.</p> <p>Apply the specified dosage in a minimum of 30 gallons of finished spray per acre.</p> <p>Ground application only.</p> <p>Do not apply by air.</p> <p>Do not apply within 1 day of harvest.</p>	

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Citrus II (for Florida Only)	
Insects Controlled	Rate of Application
Diaprepes root weevil <i>(Diaprepes abbreviatus)</i> Southern Blue-Green Citrus Root Weevil <i>(Pachnaeus litus)</i> Blue Green Citrus Root Weevil <i>(Pachnaeus opalus)</i> Brown Leaf Notcher <i>(Eplcaerus mexicanus)</i> Little Leaf Notcher <i>(Artipus flori-danus)</i>	16-32 oz. (0.25 –0.50 pound active) per acre
Fireant (Solenopsis species) Asian Cockroach <i>(Blattella asahinae)</i>	6.4 – 16 fluid ounces (0.1- 0.25 pound active) per acre.

REMARKS

Apply product by ground equipment to bare soil beneath citrus trees. Product must be uniformly applied from the trunk to the drip line of three; apply in a minimum of 40 gallons of dilute spray per acre. Greater spray volume should insure greater uniformity of coverage. A pre and post application irrigation may aid in the uniformity of coverage as well.

Product protects citrus tree roots from Diaprepes and other citrus root weevil feeding by forming a barrier which provides contact activity on newly hatched larvae (neonates). As citrus root weevil eggs hatch in new foliage, neonates fall to the soil surface beneath the tree and come in contact with this product as they attempt to burrow into the root zone. Disturbance of the soil beneath trees should be minimized.

Timing of product application is critical. Current information suggests that peak emergence of adult Diaprepes Weevil varies by citrus growing region and these emergence peaks can be dramatically affected by environmental factors, such as soil moisture. Typically, two peaks are observed for Diaprepes, first in spring then late summer or early fall. Southern Blue-Green and Blue-Green Citrus Weevils typically exhibit a single emergence peak in the spring. Brown and Little Leaf Notchers typically exhibit three emergence peaks, spring and summer and fall. Since emergence varies seasonally and by location, timing of product application can be accurately forecast by observing adults. Adults are most active early morning and late afternoon; numbers can be estimated by trapping throughout spring and summer (emergence periods). Egg laying will occur for 8 to 10 weeks following adult emergence from the soil; larval invasion of the soil will begin 2 – 3 weeks following adult emergence. It is critical to have the product soil barrier in place prior to drop of the neonates.

This product is one of several effective tools in an integrated pest management program for citrus Root Weevils. Application of this product should be used in conjunction with good cultural practices, biological control of larvae and foliar control of adults. Consult local university extension personnel for current information to protect citrus trees from Citrus Root Weevils and other pests.

Additional Information:

Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer. Peak emergence of Diaprepes root weevil generally occurs in the spring. Depending on weather conditions, a minor emergence of Diaprepes root weevil may also occur in the fall.

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

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Citrus II (for Florida Only)

Diaprepes root weevil.

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

RESTRICTIONS

Do not apply through irrigation systems.

Do not allow any application of this product 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 40 gallons of finished spray per acre.

Ground application only.

Do not apply by air.

Do not apply within 1 day of harvest.

TOMATOES

Insects Controlled	Rate 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 species Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug species 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

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TOMATOES
<p>REMARKS 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.</p> <p>RESTRICTIONS Do not make applications less than 10 days apart. A maximum of 4 applications may be applied per season. Do not apply within 1 day of harvest.</p>

TUBEROUS AND CORM VEGETABLES (Not for use in California)			
CROP	PEST	Rate of Application	
		LB/A/A	FL OZ/A
Potato	Corn Wireworm	0.15 to 0.30	9.6 to 19.2
Sweet Potato	Tobacco Wireworm	(at-plant)	(at-plant)
Arracacha	Southern Potato Wireworm		
Arrowroot	Japanese Beetle Grubs	0.05 to 0.15	3.2 to 9.6
Chinese Artichoke	June Beetle	(at cultivation	(at cultivation
Jerusalem Artichoke	Sweetpotato Flea Beetle	or lay-by)	or lay-by)
Edible Canna	Cucumber Beetle		
Cassava (Bitter and Sweet)	Sweetpotato Weevil	0.033 to 0.10	2.1 to 6.4
Chayobs (Root)	Banded Cucumber Beetle	(foliar)	(foliar)
Chufa	Black Flea Beetle		
Dasheen (Taro)	Whitefringed Beetle		
Ginger	White Grub		
Laren	Sugarcane Beetle		
Tanier Turner	Rootworms		
Yam Bean			
True Yam			
REMARKS			
<p>Xpedient FC may be applied as a soil incorporated broadcast, directed bed spray or a T-band spray into the planting furrow for the control of wireworms, rootworms, sweet potato flea beetle and white grubs. Apply Xpedient FC at the rate of 0.15 to 0.3 pounds active (9.6 to 19.2 ounces formulated) per acre in a minimum of 10 gallons finished spray per acre..</p> <p>Xpedient FC may be applied as one or more soil directed and incorporated treatments at cultivation or lay-by for the control of wireworms, rootworms and white grubs. Apply Xpedient FC to the drill area and incorporate by cultivation equipment set to throw soil towards the drill area. Apply Xpedient FC at a rate of 0.05 to 0.15 pounds active (3.2 to 9.6 ounces formulated) per acre in a minimum of 10 gallons finished spray per acre.</p> <p>Xpedient FC may be applied as a foliar spray for the control of the adult life stages of flea beetles, click beetles (wireworms), cucumber beetles (rootworms), white fringed beetles and May/June beetles (white grubs).</p> <p>Apply Xpedient FC at the rate of 0.033 to 0.1 lbs active (2.1 to 6.4 ounces formulated) per acre in a minimum of 10 gallons per acre by ground and 3 gallons per acre by air.</p> <p>Do not make more than 2 foliar applications per season no sooner than 21 days apart. Do not apply more than 0.5 lb. active ingredient per acre per season, including soil application. Do not apply within 21 days of harvest.</p>			

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SOYBEANS (Not for use in California)		
PEST	Rate of Application	
	LB/AI/A	FL OZ/A
Alfalfa Caterpillar	0.033 to 0.10	2.1 to 6.4
Aphids		
Aster Leafhopper		
Bean Leaf Beetle		
Beet Armyworm*		
Cloverworm		
Corn Earworm		
Corn Rootworm Adult		
Cucumber Beetles		
Cutworms		
European Corn Borer		
Fall Armyworm		
Flea Beetle		
Grasshoppers		
Imported Cabbageworm		
Japanese Beetle Adult		
Leafhoppers		
Leafminer		
Loopers		
Mexican Bean Beetle Adult		
Pea Leaf Weevil		
Pea Weevil		
Plant Bug		
Saltmarsh Caterpillar		
Sap Beetle		
Southern Armyworm		
Stink Bugs		
Tarnished Plant Bug		
Thrips		
Tobacco Budworm*		
Webworms		
Western Bean Cutworm		
Whitefly		
Yellowstriped Armyworm		
Lygus species	0.08 to 0.10	5.12 to 6.4
Whitefly		
Two Spotted Spider Mite		
<p>REMARKS</p> <p>Apply in a minimum of 10 gallons per acre with ground equipment or 2 gallons per acre by aircraft at a minimum of 30 day intervals.</p> <p>Do not apply more than 0.3 lb ai per acre per season.</p> <p>Do not apply within 18 days of harvest.</p> <p>*Pyrethroid resistance is common for Beet Armyworm and Tobacco Budworm.</p> <p>Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so refer to the resistance management statement in the DIRECTION FOR USE section of this label.</p>		

SPINACH	
Insects Controlled	Rate 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
Broad Mite Banks Grass Mite Two-Spotted Spider Mite Carmine Mite Pacific Spider Mite Lygus species Fire Ants	5.12-6.4 ounces (0.08-0.10 pound active) per acre
<p>REMARKS</p> <p>For control of whiteflies, apply foliar treatments of product 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.</p> <p>For control of fire ants, apply product 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.</p> <p>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.</p> <p>RESTRICTIONS</p> <p>Do not make applications less than 7 days apart.</p> <p>Do not apply more than 0.4 pounds active ingredient per acre per season.</p> <p>Do not apply within 40 days of harvest.</p>	

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California Use Directions

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.

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[®].

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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.

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

PEST	DOSAGE	
	LB A/A	FL OZ/A
Aphids 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 species Webworms Yellowstriped Armyworm	0.033-0.10	2.1-6.4
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.

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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 species Grubs Seed Corn Maggot True Armyworm and 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
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 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.

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.

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SWEET CORN SWEET CORN GROWN FOR SEED (FOLIAR USE)		
PEST	DOSAGE	
	LB A/A	FL OZ/A
Aphids 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 species Webworm Yellowstriped Armyworm	0.033-0.10	2.1-6.4
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.

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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	0.033-0.10	2.1-6.4
	Corn Earworm		
	Saltmarsh		
	Caterpillar		
	Flea Beetles		
	Imported		
	Cabbageworm		
	Whitefly		
	Armyworms		
	Loopers		
	Crickets	0.08-0.10	5.12-6.4
	Diamondback Moth		
	Lygus species		

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	0.05-0.10	3.2-6.4	
	Orange			
	Tortrix			
		Root Weevil	0.10	6.4
		Spider Mites		

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.

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

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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

For 1 gallon plastic Container: Nonrefillable container. Do not reuse or refill this container.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

For 15 gallon returnable product Container: Returnable Container. Nonrefillable container. Do not reuse or refill this container. This container is a dedicated, single-product returnable container. Return empty container to seller at location designated by seller as a collection point. Do not break seals, add anything to container or open container after use. Do not rinse or contaminate empty container. Do not dispose of untampered empty container or use it for any other purposes. Any evidence of broken seals or other tampering or adding anything to the container renders it unfit for return. In such case, it is the obligation of the holder of the container to dispose of it properly or offer for recycling, if available.

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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