279-3249

4/10/2007

Ms. Nancy Hilton FMC Corporation 1735 Market Street Philadelphia, PA 19103

APR | 0 2007

Dear Ms. Hilton:

Subject: Amendment- addition of new uses Z-Cype 0.8 EC Insecticide EPA Registration Number 279-3249 Your submission dated March 22, 2007

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following comment:

1. FMC has agreed in this submission to all the conditions set forth in the Agency's letter dated January 18, 2007.

A copy of a stamped label is enclosed for your records.

Sincerely yours,

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

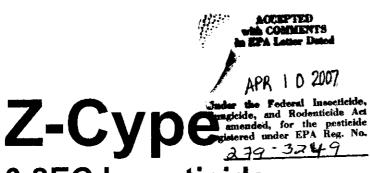
Enclosure

2714

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.



0.8EC Insecticide

EPA Reg. No. 279-3249	EPA Est. 279-FL-1

Active Ingredient:	By Wt.
* S-Cyano (3-phenoxyphenyl)methyl	
(+) cis/trans 3-(2,2-dichloroethenyl)-	
2,2 dimethylcyclopropane carboxylate**	9.6%
Inert Ingredients***	
5	100.0%

Contains 0.8 pounds active ingredient per gallon.
** Cis/trans ratio: Max. 55% (±) cis and min. 45% (±) trans
*** Contains Petroleum Distillates

U.S. Patent No. Pending

KEEP OUT OF REACH OF CHILDREN WARNING AVISO

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

FIRST AID

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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 on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

Note to Physician

Vomiting should be supervised by a physician or the professional staff because of the possible pulmonary damages by aspiration of the solvent.

For Emergency Assistance Call (800) 331-3148.

See other panels for additional precautionary information.



FMC Corporation Agricultural Products Group Philadelphia PA 19103

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals) Warning

May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with scap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G 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, Chemicalresistant gloves, such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate, and Shoes plus socks.

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear: Long-sleeved shirt and long pants, Chemical-resistant gloves, such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate, Shoes plus socks, and Protective evewear.

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, aquatic invertebrates, oysters and shrimp. 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 apply 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 if bees are visiting the treatment area.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Resistance. Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, Chemical-resistant gloves, such as Barrier Laminate or Viton, and Shoes plus socks.

STORAGE AND DISPOSAL

Pesticide Storage

Store in a cool, dry, well-ventilated place. Do not store below -6.6 C (20 F). If solids are observed warm to above 4.4 C (40 F) and roll or shake containers to redissolve. Do not use near heat, open flame or hot surfaces. Store in original containers only. 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.

Keep out of reach of children and animals.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148. To confine spill: Dike surrounding area or absorb with sand, cat litter or commercial clay. 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 connot 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 Containers: 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.

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary tandfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Sealed Containers: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

Chemigation Use Directions

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect any irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall

Z-Cype 0.8EC New Crops January 18 2007

shut the system down and make necessary adjustments should the need arise.

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 also 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

Z-Cype 0.8EC insecticide should be applied continuously for the duration of the water application. Z-Cype 0.8EC should be diluted in sufficient volume to insure accurate application over the area to be treated. Use the appropriate amount of water to carry the product to the target pest. Agitation is not required when a suitable dilutent is used.

GENERAL INSTRUCTIONS

Use low rate under light to moderate infestation. Higher rates should be used under heavy insect pressure. The rate of application is variable according to insect pressure, timing of spray and field scouting.

Preventive Use

For cutworm, armyworm, or stalk borer control, Z-Cype 0.8EC insecticide may be applied before, during, or after planting. For soil-incorporated applications, use higher rates for improved control.

Rotational Crops

With the exception of the crops listed below, rotational crops should not be planted within 30 days of last application.

Tank-Mixture

Z-Cype 0.8EC Insecticide may be applied in tank mixtures with other products approved for use on Alfalfa and Nongrass Animal Feeds; Berries; Brassica Vegetables; Bulb Vegetables; Canola (Rapeseed); Com; Cotton; Cucurbit Vegetables; Fruiting Vegetables; Grapes; Grass Forage, Fodder and Hay and Grass Grown for Seed; Leafy Vegetables; Legume Vegetables; Peanut; Pome Fruits; Rice; Root and Tuber Vegetables; Sorghum; Soybeans; Stone Fruits; Sugarcane; Sunflower; Tree Nuts; and Wheat. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing.

Spray Drift Precautions

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®, Fury®, Karate®, Mustang®, and Scout® X-TRA.

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.

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' 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. 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.

Maximum Usage When Applying Both Zeta-Cypermethrin and Cypermethrin Products to the Same Crop Within the Same Season.

Do not apply more than the maximum seasonal total for either product when used alone, and do not apply more than the combined maximum seasonal total for both products as outlined in the table below.

Сгор	Maximum Seasonai Totai (Ibs ei/acre)		Maximum Seasonal Total (Ibe al/acre) When Applying Cypermethrin and Zeta- Cypermethrin Products to the Same Crop	Maximum Seasonal Total (Ibs ai/acre) When Applying Zeta- cypermethrin Products to the Same Crop		
		a-cypermethi		Cypermethnn ^{***}	Zeta-	Zeta-
	Mustang	Z-Cype	HERQ		cypermethrin* plus Cypermethrin*	cypermethrin*
Cotton	0,3	0.15	0.1125	0.6	0.6	0.3
Field Com	0.2	0.10	0.10	NA	NA	0.2
Sweet Com	0.3	0.15	0.0675	NA	NA	0.3
Epoplant	0.3	0.15	0.0875	NA	NA	0.3
Pepper (Bell & Non-Bell)	0.3	0.15	0.0675	NA	HA	0.3
Tomato	0.3	0 15	0.105	NA	NA	0.3
Head Lattuce	0.3	0.15	0.1125	0.6	0.8	0.3
Head and Stem Breasice	0.3	0.15	0 1125	0.6	0.6	0.3
Succulent Pees and Beane	0.3	0.15	0.0675	NA	NA	0.3
Pecana	0.3	0.15	0.1125	0.6	0.6	0.3

Haximum Seasonal Usage and PHI (Pre-Harvest Interval) for Z-Cype 0.8EC Labeled Crops

Сгор	Maximum Seasonal Total/Acre for Z-Cype 0.8 EC		PHI (days)	
	Lbs Al	Floz	1	
Alfalfa and Nongrass	0.025/cutting	4.0		
Animal Feeds (Forage, Fodder, Straw and Hay) Group	0.075/season	12.0	3 (cutting or grazing) 7 (harvesting seed)	
Berries	0.15	24.0	1	
Brassica Vegetables	0.15	24.0	1	
Bulb Vegetables	0.125	20.0	7	
Canola (Rapeseed)	0.15	24.0	7	
Com, sweet	0.15	24.0	3	
Com, field, seed, pop	0.10	16.0	30 (grain & stover) 60 (forage)	
Cotton	0.15	24.0	14	
Cucurbit Vegetables	0.15	24.0	1	
Fruiting Vegetables	0.15	24.0	1	
Grapes	0.15	24.0	1	
Grass Forage, Fodder, and Hay	0.025/cutting	4.0		
Group and Grass Grown for Seed	Hay 0.10/season	16.0	0 (Forage and Hay) 7 (Straw and Seed	
	Forage, Straw & Seed Screenings 0.125/season	20.0	Screenings)	
Leafy Vegetables	0.15	24.0	1	
Legume Vegetables	0.15	24.0	1 (succulent shelled or edible-podded) 21 (dried shelled)	
Peanut	0.15	24.0	7	
Pome Fruits	0.15	24.0	14	
Rice	0.10	16.0	14	
Root and Tuber Vegetables (except Sugar Beet)	Q.15	24.0	1	
Sorghum	0.125	20.0	14 (grain & fodder (stover)) 45 (forage (silage))	
Soybeans	0.15	24.0	21	
Stone Fruits	0.15	24.0	14	
Sugarcane	0.10	16.0	21	
Sunflower	0.125	20.0	30	
Tree Nuts	0.125	20.0	7	
Wheat	0.125	20.0	14	

The REI (Restricted Entry Interval) is 12 hours for all labeled crops. Refer to the crop specific use directions for detailed information on application timing and any use restrictions. Nongrass Animal Feeds (Forage, Fodder, Straw and Hay) Group including: Alfalfa; Alfalfa grown for seed (Includes luceme, sainfoin, holy clover, esparcet, birdsfoot trefoil and varieties and/or hybrids of these); Velvet Bean; Clover; Kudzu; Lespedeza; Lupin; Sainfoin; Trefoil; Vetch; Crown Vetch; and Milk Vetch.

Insects Controlled	Rate of Application	Method of Application
Alfalfa Caterpillar Alfalfa Looper Alfalfa Looper Alfalfa Weevil Cutworms Egyptian Alfalfa Weevil (larvae & aduit) Flea Beetles Green Cloverworm Hornworms Meadow Spittlebug Potato Leafhopper Velvetbean Caterpillar Webworms Blue Alfalfa Aphid ¹ Green Peach Aphid ¹ Pea Aphid ¹ Spotted Alfalfa Aphid ¹ Threecornered Alfalfa	2.24 to 4.0 ounces (0.014 to 0.025 pound active) per acre	Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage. Use higher recommended dosage for increased pest pressure or for increased residual pest control. Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. ULV oil spray application is prohibited. Higher volumes of finished spray may improve insect control under high
Armyworms Grasshoppers Plant Bugs (including Lygus spp. & Stink Bugs)	2.8 to 4.0 ounces (0.0175 to 0.025 pound active) per acre	temperatures, when foliage is dense and/or when insect pressure is high. Follow appropriate spray drift precautions on this label.

Do not make applications less than 7 days apart.

A maximum of 0.025 pounds active ingredient/acre may be applied per cutting and a maximum of 0.075 pounds active ingredient per acre per season.

Applications may be made up to 3 days of cutting or grazing or up to 7 days of harvesting seed.

¹Aphid control may be variable depending on species present and host-plant relationships.

Berries Crop Group (1 Day PHI) including: blackberry; loganberry, red and black raspberry; blueberry, highbush and lowbush; currant; elderberry; gooseberry; huckleberry; and cultivars and/or hybrids of these.

Insects Controlled	Rate of Application	Method of Application
Leafrollers Orange Tortrix Root Weevils	4.0 ounces (0.025 pounds active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.
		Apply by ground and air equipment using sufficient water to obtain full coverage of foliage (minimum of 20 gallons by ground and 2 gallons by air).
		Follow appropriate spray drift precautions on this label.
Do not apply more than ().15 pounds active ingre	l edient per acre per season.

Do not make applications less than seven days apart.

Head and Stem Brassica Vegetables (1 day phi) including: Broccoli; Chinese Broccoli (gai lon, white flowering broccoli); Brussels Sprouts; Cauliflower; Cavalo broccolo; Kohlrabi; Cabbage; Chinese Cabbage (napa); Leafy Brassica Greens including: Broccoli Raab (rapini) ; Chinese cabbage (bok choy); Chinese Mustard Cabbage (gai choy); Collards; Kale; Mizuna; Mustard Greens; Mustard Spinach; Rape Greens

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Insects Controlled	Rate of Application	Method of Application
Corn Earworm Cucumber Beetles Cutworm Diarnondback Moth ¹ Flea Beetles Imported Cabbageworm Leafhoppers Saltmarsh Caterpillar Southern Cabbageworm Tobacco Budworm ¹	2.24 to 4.0 ounces (0.014 to 0.025 pound active) per acre	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. Lower rates of Z-Cype 0.8EC should be used
Alfalfa Looper Armyworms Cabbage Looper Cabbage Webworm Crickels	3.2 to 4.0 ounces (0.02 to 0.025 pound active) per acre	under light to moderate insect pressure. Higher rates should be used to control heavy to extremely heavy insect populations.
Grasshoppers Ground Beetles Leafminers (adults) Lygus Bugs Onion Thrips Stinkbugs		In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.
Wireworm (adults) Aphids ² Whiteflies ³		Follow appropriate spray drift precautions on this tabel.

itions less than 7 days apart.

A maximum of 0.15 pounds active ingredient may be applied per acre per season.

¹ See resistance statement under "Directions for Use" section.

²Aphid control may be variable depending on species present and host-plant relationships.

³Aids in control

Bulb Vegetables (Allium spp.) (7 day phi) including: Garlic; Garlic, Great-Headed (elephant); Green Eschalots; Japanese Bunching Onions; Leeks; Onion, Dry Bulb and Green; Onion, Welch; Shallots, Dry Bulb and Green; Spring Onion or Scallions

Insects Controlled	Rate of Application	Method of Application	
Armyworms Cutworms Leafminers (adults) Onion Maggot Adults Stink Bugs Aphids	2.24 to 4.0 ounces (0.014 to 0.025 pound active) per acre	Apply in a minimum of 3 gallons per acre wi ground equipment or in minimum of 3 gallons p acre by aircraft. Beg applications when pes	
Onion Thrips	2.88 to 4.0 ounces (0.018 to 0.025 pound active) per acre	appear and repeat as necessary to maintain control. To control Onion Thrips:	
		Use higher rates as population increases and avoid rescue situations. Use of a crop oil concentrate at 16 fluid ounces per acre is recommended.	
Do not make applications		Follow appropriate spray drift precautions on this label.	

Do not apply more than 0.125 pound active ingredient per acre per season. Do not graze livestock in treated areas or cut treated crops for feed. Aphid control may be variable depending on species present and host-plant relationships.

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Corn, Sweet (3 day phi)

Insects Controlled	Rate of Application	Method of Application	
Chinch Bug Corn Rootworm (Adult) Com Silkfly Cutworms Flea Beetle Leafhoppers Japanese Beetle (Adult) Sap Beetle (adults) Tarnished Plant Bug	2.24 to 4.0 ounces (0.014 to 0.025 pound active) per acre	Apply with ground or air equipment using sufficient water and application methods to insure thorough coverage of foliage. Apply in water using a minimum of 20 gallons of finished spray per acre with ground equipment and a minimum of 2 galions per acre by air.	
Armyworms Com Borers Com Earworm Grasshoppers Aphids	2.8 to 4.0 ounces (0.0175 to 0.025 pound active) per acre	Follow appropriate spray drift precautions on this label.	
Apply at minimum 3 to 5 day intervals or as needed for control. A maximum of 0.15 pounds active ingredient per acre per season may be applied.			

Do not apply within 3 days of harvest of ears or forage or livestock grazing. Aphid control may be variable depending on species present and host-plant relationships.

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

	stottill lot occup			
Insects Controlled	Rate of Application		od of cation	
Cutworms	0.16 fluid ounces per 1,000 linear feet of row (0.001 pound active) per 1,000 linear feet of row	Apply as an ir or T-band tre a minimum 4 table below the Z-Cype for each acre.	atment using to determine 0.8EC needs	
Row Spacings (inches)	40	30	20	
Z-Cype 0.8EC (pounds ai pe	er acre) 0.0	0.018	0.024	
Z-Cype 0.8EC (formulated o	unces per acre) 1.9	2 2.88	3.84	
Do not apply more than 0.10 pound active ingredient per acre per season including at-plant plus foliar applications of Z-Cype 0.8EC.				
Do not apply within 30 days of harvest for grain and stover and 60 days for forage.				

Corn (Field), Field Corn Grown for Seed, Popcorn

Insects Controlled	Rate of Application	Method of Application
Cutworms	1.28 to 2.8 ounces (0.008 to 0.0175 pound active) per acre	Make applications when insect populations reach economic thresholds. Refer to local Cooperative
Com Earworm Green Cloverworm Meadow Spittlebug Western Bean Cutworm1	1.76 to 4.0 ounces (0.011 to 0.025 pound active) per acre	Extension Pest Management Guidelines and/or scouting results. Apply by air or by ground
Bean Leaf Beetle Cereal Leaf Beetle Corn Borer, European Corn Borer, Southwestern Corn Rootworm Beetle Flea Beetle Grasshoppers Hop Vine Borer Hornworms Japanese Beetle (adult) Sap Beetle (adult) Southern Corn Leaf Beetle Stalk Borer Stink Bug Spp. Tobacco Budworm ² Webworms Aphids ³	2.72 to 4.0 ounces (0.017 to 0.025 pound active) per acre	equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons per acre by air and 10 gallons per acre by ground). For chinch bug control, scout com fields and make applications when bugs migrate from small grains or wild grasses to small corn. Direct spray to the base of plant. Repeat applications at 3 to 5 day intervals if needed. Z- Cype 0.8EC may only suppress heavy infestations and/or subsequent migrations.
Armyworms (including Fall Armyworms) Chinch Bug	3.2 to 4.0 ounces (0.02 to 0.025 pound active) per acre	Follow appropriate spray drift precautions on this label.

Do not apply more than 0.10 pound active ingredient per acre per season including At-Planting plus foliar applications of Z-Cype 0.8EC Insecticide. Do not apply within 30 days of harvest for grain and stover and 60 days for forage.

¹ For control before the larva bores into the plant stalk or ear.

² See resistance statement under "Directions for Use" section.

³ Control may be variable depending on species present and host-plant relationships.

Cotton (14 day phi)

Insects Controlled	Rate of Application	Method of Application
Preemergent Use: Cutworms	1.28 to 1.92 ounces (0.008 to 0.012 pound active) per acre	Use Z-Cype 0.8EC in the time period from 14 days prior to planting up to emergence of the crop. Apply as a broadcast spray by ground or air, banded (including T-band) or in- furrow spray using sufficient spray volume to achieve adequate coverage. Reduced volumes of water may be used with specialized equipment. Use the higher rates of Z-Cype 0.8EC when incorporating into the soil.
Cutworms Tobacco Thrips Soybean (banded) Thrips Armyworm, Fall Armyworm, Yellow Striped Boll Weevil Cabbage Looper Corn Borer, European Cotton Bollworm Cotton Fleahopper Cotton Leaf Perforator Pink Bollworm Saltmarsh Caterpillar Stink Bugs Tamished Plant Bug Other Plant Bugs Tobacco Budworm ¹	1.28 to 1.92 ounces (0.008 to 0.012 pound active) per acre 2.64 to 3.6 ounces (0.0165 to 0.0225 pound active) per acre	2.Cype 0.8EC may be applied in water or refined vegetable oil. When water is used, apply a minimum of one gallon of finished spray per acre by air or five gallons of finished spray with ground equipment. When applying in water by air, one quart of emulsified oil may be substituted for one quart of water in the finished spray. When using oil, use a minimum of one quart per acre in the finished spray. Control of lepidopteran eggs may be achieved with proper timing of applications.
Armyworm, Beet ⁴ Cotton Aphid ³ Lygus Bugs Whiteflies ⁴ Grasshoppers	2.8 to 4.0 ounces (0.0175 to 0.025 pound active) per acre 3.0 to 4.0 ounces (0.01875 to 0.025 pound active) per acre	For boll weevil control, apply Z-Cype 0.8EC at a 3 to 4 day interval until pest numbers are reduced to acceptable levels. Follow appropriate spray drift precautions on this label. For control of grasshoppers, applications
		should be made based on careful field scouting. Treatment decisions should be made based on evidence of feeding damage and prescence of grasshoppers in cotton. Loss of cotyledon leaves in seedling cotton should be considered more important than leaf loss in older cotton. Applications should be made on a broadcast basis since grasshopper are highly mobile. Adjust rates based on
		populations of grasshopper found in fields. Applications should be made on a three to five day schedule until grasshopper populations are under control or until foliage loss subsides. Increase application rates as grasshopper size and population density increases.

A maximum of 0.15 active pound ingredient may be applied per acre per season.

Do not graze or feed cotton for forage.

¹ See resistance statement under "Directions for Use" section.

² For control of beet armyworms only in the high plains of Texas, Arizona, and California.

³ Aphid control may be variable depending on species present and host-plant relationships.

⁴Aids in control

Insects Controlled	Rate of Application	Method of Application
Aphids Cutworms Diamondback Moth Loppers Lepidopterous Larvae Flea Beetle Flea Beetle Fleahoppers Grasshopper Plant Bug Stink Bugs Stedpod Weevil Thrips Whitefly Armyworms	4.0 ounces (0.025 pounds active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). Follow appropriate spray drift precautions on this label.
Do not apply more than 0.15 pounds active ingredient per acre per season.		
Do not make applications less than seven days apart.		

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Cucurbit Vegetables Group (1 day PHi) including but not limited to: Chayote (fruit); Chinese Waxgourd (Chinese Preserving Melon); Citron Melon; Cucumber; Gherkin; Gourd (edible) (including hyotan, cucuzza, hechima, Chinese orkra); Mormordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, margo melon, persian melon, pineapple melon, Santa Claus melon, and snake melon); Pumpkin; Summer Squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Winter Squash (includes butternut squash, calabaza, hubbard squash, acorn squash, and spaghetti squash); Watermelon (includes hybrids and varieties).

Insects Controlled	Rate of Application	Method of Application
Cutworm spp.	1.28 to 4.0 ounces (0.008 to 0.025 pounds active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic
Cabbage Looper Cucumber Beetle spp. (adult) Leafhopper spp. Metonworm Pickteworm Rindworm Squash Bug Squash Vine Borer	2.8 to 4.0 ounces (0.0175 to 0.025 pounds active) per acre	Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).
Aphid spp. ^{1,2} Armyworm, Beet ^{1,2} Corn Earworm Leafminer ' Plant Bug spp. Stinkbug spp.	3.2 to 4.0 ounces (0.02 to 0.025 pound active) per acre	Do not make applications less than 7 days apart. Follow appropriate spray drift precautions on this label.
Do not apply more than 0.15 pounds active ingredient per acre per season. ¹ Aids in control. ² See resistance statement upder "Directions For Lise" section		

² See resistance statement under "Directions For Use" section.

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Fruiting Vegetables (except Cucurbits) (1 day phi) including: Eggplant; groundcherry (Physalis spp.); pepino (Melon pear); pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); tomatillo; tomato.

Insects Controlled	Rate of Application	Method of Application
Armyworm, Southern Armyworm, True Armyworm, True Armyworm, Yellow-striped Celery Leaf Tier Colorado Potato Beetle Corn Borer, European Corn Borer, Southwestern Corn Earworm Cucumber Beetle Cutworm spp. Flea Beetle Garden Webworm Green Stink Bug Hornworms Leafhopper spp. Meadow Spittlebug Pepper Maggot (adults) Pepper Weevil Plant Bug spp. Tobacco Budworm ² Tomato Fruitworm	2.24 to 4.0 ounces (0.014 to 0.025 pound active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). Follow appropriate spray drift precautions on this label.
Aphid spp. ^{2,3} Armyworm, Beet ² Armyworm, Fall Cabbage Looper Grasshoppers Lygus Bugs Brown Stink Bug Tomato Psyllid Thrips spp. ^{1,2} Whitefly spp. ^{1,2} Do not make applications let	3.2 to 4.0 ounces (0.020 to 0.025 pound active) per acre	

Do not make applications less than 7 days apart.

Do not apply more than 0.15 bounds active ingredient per acre per season. ¹ Aids in control

² See resistance statement under "Directions for Use" section.

³ Aphid control may be variable depending on species present and host-plant relationships.

Grape (1 Day PHI).

Insects Controlled	Rate of Application	Method of Application
Eastern grape leafhopper Variegated leafhopper Western grape leafhopper	4.0 ounces (0.025 pounds active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Apply by ground or air equipment using sufficient water to obtain full coverage of follage (minimum of 10 gallons by ground and 2 gallons by air). Follow appropriate spray drift precautions on this label.
Do not apply more than 0.15 pounds active ingredient per acre per season.		
Do not make applications less than seven days apart.		

Grass Forage, Fodder, and Hay Group and Grass Grown for Seed (0 day PHI for forge and hay; 7 day PHI for straw and seed screenings) including: bahiagrass, barnyardgrass, bentgrass, Bermudagrass, Kentucky bluegrass, big bluestem, smooth bromegrass, buffalograss, reed canarygrass, centipedegrass, crabgrass, cupgrass, dallisgrass, sand dropseed, Kentucky fescue, meadow foxtail, eastern gramagrass, side-oats grama, guinea grass, Indian grass, Johnsongrass, lovegrass, napiergrass, oatgrass, orchardgrass, pangolagrass, paspalum, redtop, Italian ryegrass, St. Augustine grass, sprangletop, squirreltailgrass, stargrass, switchgrass, timothy, crested wheatgrass, wildrye grass and zoysia grass. Also included are sudangrass and sorghum forages and their hybrids.

Insects Controlled	Rate of Application	Method of Application
Alfalfa Caterpillar Alfalfa Looper Alfalfa Weevil Cutworms Egyptian Alfalfa Weevil (larvae & adult) Flea Beetles Green Cloverworm Hornworms Meadow Spittlebug Potato Leafhopper Velvetbean Caterpillar Webworms Blue Atfalfa Aphid ¹ Green Peach Aphid ¹ Green Peach Aphid ¹ Spotted Alfalfa Aphid ¹ Threecornered Alfalfa Hopper Armyworms Cereal Leaf Beetle Chinch Bug Grass Meatybug Grasshoppers Plant Bugs (including Lygus spp. & Stink Bugs)	2.24 to 4.0 ounces (0.014 to 0.025 pound active) per acre 2.8 to 4.0 ounces (0.0175 to 0.025 pound active) per acre	Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage. Use higher recommended dosage for increased pest pressure or for increased residual pest control. Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. ULV oil spray application is prohibited. Higher volumes of finished spray may improve insect control under high temperatures, when foliage is dense and/or when insect pressure is high. Follow appropriate spray drift precautions on this label.
Do not make applications less than 7 days apart for forage and hay, not less than 17 days for straw and seed screenings.		
A maximum of 0.025 pounds active ingredient per acre may be applied per cutting. For hay, a maximum of 0.10 pounds active ingredient per acre per season may be applied. For forage, straw, and seed screenings, a maximum of 0.125 pounds active ingredient per acre per season may be applied.		

Applications may be made up to 0 days for forage and hay; 7 days for straw and seed screenings.

¹ Aphid control may be variable depending on species present and host-plant relationships.

Leafy Vegetables (except Brassica) (1 day PHI): Amaranth (leafy amaranth, Chinese spinach, tampala); Arugula (Roquette); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, edible-leaved and garland; Cilantro (not for use on cilantro grown for seed or coriander); Corn salad; Cress, garden; Cress, upland (yellow rocket, winter cress): Dandelion; Dock (sorrel); Endive (escarole); Fennel, Florence (finochio); Lettuce, head and leaf; Orach; Parsley; Purslane, garden; Purslane, winter; Radicchio (red chicory); Rhubarb; Spinach (including New Zealand and vine, Malabar spinach, Indian spinach); Swiss chard.

Insects Controlled	Rate of Application	Method of Application
Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Imported Cabbageworm Leafhoppers Salmeen Cotarillar	2.24 to 4.0 ounces (0.014 to 0.025 pound active) per acre	Apply in water as necessary for insect control using a minimum of 10 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. Lower rates of Z-Cype
Saltmarsh Caterpillar Tobacco Budworm ² Aphid spp. ²³ Whitefly spp. ^{1,2}		should be used under light to moderate insect pressure. Higher rates should be used to control heavy to
Armyworms Ground Beetles Crickets	3.2 to 4.0 ounces (0.02	extremely heavy insect populations.
Loopers Lygus Bugs Onion Thrips Stink Bugs Wireworm (adults)	to 0.025 pound active) per acre	In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.
		Follow appropriate spray drift precautions on this label.

Do not make applications less than 7 days apart.

A maximum of 0.15 pound active ingredient may be applied per acre per season.

Aids in control

See resistance statement under "Directions For Use" section Aphild control may be variable depending on species present and host-plant relationships.

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Legume Vegetables - Succulent and Dried (except Soybeans) 1 day phi for succulent shelled or edible-podded peas or beans 21 day phi for dried shelled peas or beans

Succulent Edible-Podded Peas, Succulent Shelled Peas and Dried Shelled Peas (Pisum spp.) including:

Dwarf Pea; Edible-pod Pea; Snow Pea; Sugar Snap Pea; Pigeon pea; English Pea; Garden Pea; Green Pea; Lentil.

Succulent Edible-Podded Beans, Succulent Shelled Beans, and Dried Shelled Beans including:

Runner Bean; Snap Bean; Wax Bean; Asparagus Bean; Chinese Longbean; Moth Bean; Yardlong Bean; Jackbean; Soybean (immature seed); Swordbean; Lima Bean; Broad Bean (Fava Bean); Blackeyed Pea; Southern Pea; Grain Lupin; Sweet Lupin; White Lupin; White Sweet Lupin; Field Bean; Kidney Bean; Navy Bean; Pinto Bean; Tepary Bean; Adzuki Bean; Catjang; Cowpea; Crowder Pea; Moth Bean; Mung Bean; Rice Bean; Urd Bean; Chickpea (Garbanzo Bean); Guar; Lablab bean.

ControlledApplicationCutworm spp. Painted Lady (Thiste) Caterpillar1.28 to 4.0 ounces (0.008 to 0.025 pound active) per acreApply as required by scouting, usually at 0.025 pound active) per acreAlfalfa Caterpillar2.72 to 4.0 ounces (0.017 to 0.025 pound active) per acreTiming and frequency of applications should be based upon insect populations reaching occally determined economic thresholds.Armyworm, True Armyworm, True Colorado Potato Beetle Com Borer, European Com Borer, European Com Borer, Southwestern Come acres (adult)2.72 to 4.0 ounces (0.017 to 0.025 pound active) per acreCom Borer, European Com Borer Spp. Leafhopper spp. Leafhopper spp. Leafhopper Spp. Potato Leafhopper Seedcom Magot (adult) Spittlebug Three-Connered Alfalfa Hopper Velvetbean Caterpillar3.2 to 4.0 Ounces (0.020 to Ounces (0.020 to Ounces (0.020	Insects	Rate of	Mathedaf
Cutworm spp. Caterpillar 1.28 to 4.0 ounces (0.008 to 0.025 pound active) per acre Apply as required by scouting, usually at intervals of 5 or more days. Saltmarsh Caterpillar 2.72 to 4.0 ounces (0.017 to 0.025 pound active) per acre Apply as required by scouting, usually at intervals of 5 or more days. Affalfa Caterpillar 2.72 to 4.0 ounces (0.017 to 0.025 pound active) per acre Apply as required by scouting, usually at intervals of 5 or more days. Affalfa Caterpillar 2.72 to 4.0 ounces (0.017 to 0.025 pound active) per acre applications should be based upon insect populations reaching locally determined economic thresholds. Bister Beetle Corn Borer, European Corn Borer, Southwestern Corn Rootworm Beetle (adut) Cowpea Curculio Coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). Fela Beetle Flea Beetle Green Cloverworm Ground Beetles Imported Cabbageworm Japanese Beetle LeafSkeletonizer spp. Leafmoper spp. Detaio Leafhopper Seedcorn Beetle Seedcorn Beetle Seedcorn Beetle Seedcorn Beetle Seedcorn Beetle Seedcorn Beetle Seedcorn Beetle Seedcorn Beetle Conces (0.020 to Ounces (0.020 to Armyworm, Fail 3.2 to 4.0 Ounces (0.020 to Ounces (0.020 to Ounces (0.020 to Core spp. 4 Moolly Bear Caterpillar 3.2 to 4.0 Ounces (0.020 to Core spp. 4 Moolly Bear Caterpillar 3.2 to 4.0 Ounces (0.020 to Core spp. 4 Moolly Spp. 4 3.2 to 4.0 Ounces (0.020 to Core spp. 4		1	Method of Application
	Cutworm spp. Painted Lady (Thistle) Caterpillar Saltmarsh Caterpillar Silverspotted Skipper Alfalfa Caterpillar Armyworm, Southern Armyworm, True Armyworm, Yellow-Striped Bean Leaf Beetle Bister Beetle spp. Colorado Potato Beetle Com Borer, Surthwestern Corn Borer, Southwestern Corn Beetle Flea Beetle Green Cloverworm Ground Beetles Imported Cabbageworm Japanese Beetle Leaf Skeletonizer spp. Leafhopper spp. Leafhopper Spp. Potato Leafhopper Seedcorn Maggot (adult) Spittlebug Three-Cornered Alfalfa Hopper Tobacco Budworm ² Velvetbean Caterpillar Webowrn spp. Woolly Bear Caterpillar Webowrn, Fail Grasshoppers Lesser Cornstalk Borer ¹ Looper spp. ^{2,3} Armyworm, Beet ² Armyworm, Beet ³ Armyworm, Beet ⁴ Armyworm, Beet ⁴ Armyworm, Beet ⁴ Armyworm, Beet ⁴ Armyworm, Beet ⁴ Armyworm	1.28 to 4.0 ounces (0.008 to 0.025 pound active) per acre 2.72 to 4.0 ounces (0.017 to 0.025 pound active) per acre 0.025 pound active) per acre 3.2 to 4.0 ounces (0.020 to pound 0.025 pound 0.025 pound	Application Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). Follow appropriate spray drift precautions on this

Do not make applications less than 5 days apart.

Do not apply more than 0.15 pound active ingredient per acre per season. ¹ Aids in control

² See resistance statement under "Directions For Use" section

³ Aphid control may be variable depending on species present and host-plant relationships.

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Peanut (7 day PHI)

Insects Controlled	Rate of Application	Method of Application
Cutworm spp. Green Cloverworm Veivetbean Caterpillar Red-necked Peanut Worm	1.28 to 4.0 ounces (0.008 to 0.025 pounds active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.
Bean Leaf Beetle Leafhopper spp. Southerm Corn Rootworm (aduit) Vegetable Weevil Whitefringed Beetle (adult)	1.76 to 4.0 ounces (0.011 to 0.025 pounds active) per acre	Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2
Aphid spp. ^{1,2} Armyworm, Beet ^{1,2} Armyworm, Fall ^{1,2} Corn Earworm Grasshopper spp. Lesser Cornstalk Borer ^{1,2} Soybean Looper ^{1,2} Stink Bug spp. ^{1,2} Tobacco Thrips ²	3.2 to 4.0 ounces (0.02 to 0.025 pound active) per acre	gallons by air). Do not make applications less than 14 days apart. Follow appropriate spray drift precautions on this label.
Do not apply more than 0.15 pounds active ingredient per acre per season. Do not graze livestock in treated areas. Do not use treated vines or hay for animal feed. Aids in control. ² See resistance statement under "Directions For Use" section.		

Pome Fruit Group (14 day PHI) including: Apple; Crabapple; Loquat; Mayhaw; Pear; Oriental Pear; and Quince.

Insects Controlled	Rate of Application	Method of Application
Apple Maggot Codling Moth European Apple Sawfly Green Fruitworm Japanese Beetle Lesser Appleworm Oblique Banded Leafroller Oriental Fruit Moth	1.28 to 4.0 ounces (0.008-0.025 pounds active) per acre	Begin applications at delayed cormant through first cover as common to the production areas and the target pest species. Apply in a full season spray program. Apply as required by
Pandemis Leafroller Pear Psylla Plum Curculio Potato Leafhopper Redbanded Leafroller Rosy Apple Aphid Spirea Aphid		scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.
Spotted Tentiform Leafminer Stink Bugs Tarnished Plant Bug Tufted Apple Bud Moth Variegated Leafroller White Apple Leafhopper		Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (for ground application use a minimum of 20 gallons for concentrate spray or a minimum of 100 gallons for dilute spray; for air application use a minimum of 10 gallons). Do not make applications
		less than 7 days apart. Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours.
	pounds active inc	Follow appropriate spray drift precautions on this label. redient per acre per season.
Do not apply as a ULV spra	γ	r crops from treated orchards.

Rice (14 day phi)

Insects Controlled	Rate of Application	Method of Application
Armyworm, Fall Armyworm, True Armyworm, True Grasshoppers Green Bug Leafhopper Spp. Rice Water Weevil (adult) Oat Birdcherry Aphid	3.2 to 4.0 ounces (0.020 to 0.025 pound active) per acre	Apply as needed based on pest thresholds determined by scouting practices. Refer to Extension Scouting guidelines for scouting techniques, pest thresholds and treatment timing and treatment intervals.
	2.64 to 4.0 ounces (0.0165 to 0.025 pound active) per acre	
		Use alternate chemistry for control. Follow appropriate spray drift precautions on this label.
Do not make applications les	· · · · · · · · · · · · ·	
Do not release floodwater wi	-	pplication. 1.0 pints) may be applied per

A maximum of 0.10 pound active ingredient (1.0 pints) may be applied per acre per season.

Do not use treated rice field for the aquaculture of edible fish and crustacea. Do not apply as an ultra-low volume (ULV) spray.

¹ Aphid control may be variable depending on species present and host-plant relationships.

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Root and Tuber Vegetables Group 1 (except Sugar Beet) (1 day PHI) including: Arracacha; Arrowroot; Artichoke (Chinese and Jerusalem); Garden Beet; Edible Burdock; Edible Canna; Carrot; Cassava (Bitter and Sweet); Celeriac (Celery Root); Chayote (Root); Turnip-Rooted Chervil; Chicory; Chufa; Dasheen (Taro); Ginger; Ginseng; Horseradish; Leren; Turnip-Rooted Parsley; Parsnip; Potato; Oriental Radish (Daikon); Rutabaga; Salsify (Oyster Plant); Black Salsify; Spanish Salsify; Skirret; Sweet Potato; Tanier (Cocoyam); Turmeric; Turnip; Yam Bean; and Yam (True).

insects Controlled	Rate of Application	Method of Application
Cutworm spp.	1.28 to 4.0 ounces (0.008 to 0.025 pounds active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds levels.
Cabbage Looper Cucumber Beetle European Corn Borer Fleabeetle spp. Leafhopper spp. Southern Corn Rootworm (adult) Vegetable Weevil Whitefringed Beetle (adult)	1.76 to 4.0 ounces (0.011 to 0.025 pounds active) per acre	Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). Do not make applications less than 4 days apart.
Aphid spp. ¹ Armyworm, Beet ¹ Armyworm, Yellowstriped Cabbage Maggot Colorado Potato Beetle ² Grasshopper spp. Imported Cabbageworm Potato Leafhopper Potato Psyllid Potato Tuberworm ¹ Tarnished Plant Bug	3.2 to 4.0 ounces (0.02 to 0.025 pound active) per acre	
Do not apply more than 0.15 pounds active ingredient per acre per season. Leaves of Root and Tuber Vegetables cannot be used for food or feed. Follow appropriate spray drift precautions on this label.		

Aids in control.

² See resistance statement under "Directions For Use" section.

Sorghum (Grain) and Millet (14 day phi for grain and stover; 45 day phi for forage):

Insects Controlled	Rate of Application	Method of Application
Cutworm spp. Sorghum Midge	1.28 to 4.0 ounces (0.008 to 0.025 pound active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations
Armyworm, Fall Armyworm, Southern Armyworm, True Amyworm, Yeliow-Striped Corn Borer, European ¹ Corn Borer, Southwestern ¹ Corn Earworm Flea Beetle spp. Hornworms Stink Bug spp.	1.76 to 4.0 ounces (0.011 to 0.025 pound active) per acre	reaching locally determined economic thresholds. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). The addition of one to two quarts of emulsified oil per acre to the spray
Aphid spp. ²³ Armyworm, Beet ³ Chinch Bug False Chinch Bug Grasshopper spp. Lesser Cornstalk Borer ¹ Thrips spp. ³⁴ Whitefly spp. ³⁴	3.2 to 4.0 ounces (0.02 to 0.025 pound active) per acre	

Do not apply more than 0.125 pound active ingredient per acre per season.

¹ For control before the larva bores into the plant stalk.

² Aphid control may be variable depending on species present and host-plant relationships.

³ See resistance statement under "Directions For Use" section

⁴ Aids in Control

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Soybeans (21 day phi):

Stone Fruit Group (14 day PHI) including: Apricot; Cherry (Sweet and Tart); Nectarine; Peach; Plum (including Chickasaw Plum, Damson Plum, and Japanese Plum); Plumcot; and Prune (fresh).

Insects Controlled	Rate of Application	Method of Application	
American Plum Borer Black Cherry Aphid Cherry Fruit Fly Green Fruitworm Leafrollers Leafhoppers Lesser Peach Tree Borer	1.28-4.0 ounces (0.008-0.025 pounds active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.	
Peach Tree Borer Peach Twig Borer Plum Curcutio Oriental Fruit Moth Rose Chafer Stink Bugs Tarnished Plant Bug Tufted Apple Budmoth Western Cherry Fruit Fly		Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (for ground application use a minimum of 20 gallons for concentrate spray or a minimum of 100 gallons for dilute spray, for air application use a minimum of 10 gallons).	
		Do not make applications less than 7 days apart.	
		Follow appropriate spray drift precautions on this label.	
Do not apply more than 0.15 pounds active ingredient per acre per season.			
Do not apply as a ULV spray.			

Do not feed or allow livestock to graze on cover crops from treated orchards.

Sugarcane (21 day phi)

Controlled	Application	Method of Application
Sugarcane Borer Mexican Rice Borer	3.0 to 4.0 ounces (0.01875 to 0.025 pound active) per acre	Make applications when insect populations reach economic thresholds. Refer to local Cooperative Extension Pest Management Guidelines and/or scouting results. Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons per acre by air and 10 gallons per acre by ground). Follow appropriate spray drift precautions on this label.

Do not apply more than 0.10 pound active ingredient per acre per season.

Do not apply more than 0.15 pound active ingredient per acre per season. ¹ Use higher recommended dosage for increased pest pressure, increased residual pest control, or later-season applications. ² See resistance statement under "Directions For Use" section

Do not graze or harvest treated soybean forage, straw, or hay for livestock

³ Aids in control

feed.

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Sunflower (30 day PHI)

Insects	Rate of	Method of
Controlled	Application	Application
Seed Weevils Stem Borers Stem Weevils Sunflower Beetle Sunflower Moths Cutworms Beet Armyworm Grasshoppers Leafhoppers Sunflower Maggot	2.24 to 4.0 ounces (0.014 to 0.025 pound active) per acre	Apply with ground or air equipment using sufficient water and application methods to insure thorough coverage of foliage. Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. Begin applications when pest appears and repeat as necessary to maintain control. Do not make applications less than 7 days apart. Use higher recommended dosage for increased residual pest control.

Do not apply more than 0.125 pound active ingredient per acre per season. Do not make more than five applications at the maximum application rate per season.

Do not graze livestock in treated areas or cut treated crops for feed

Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours.

Follow appropriate spray drift precautions (refer to the Spray Drift Precautions section).

Tree Nuts Group (7 Day PHI) including: almond; beech nut; Brazil nut; butternut; cashew; chestnut; chinquapin; filbert (hazelnut); hickory nut; macadamia nut; pecan; and walnut (black and English).

Insects Controlled	Rate of Application	Method of Application		
Black Pecan Aphid Codling Moth Filbert Worm Hickory Shuckworm Leaffooted Bugs Navel Orangeworm Oblique-banded Leafroller Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Nut Casebearer Pecan Neevil Plant Bugs Stink Bugs Stink Bugs Wahut Aphid Walnut Husk Fly Yellow Pecan Aphid	3.2 to 4.0 ounces (0.02 to 0.025 pounds active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 galions by air). Follow appropriate spray drift precautions on this label.		
Do not apply more than 0.125 pounds active ingredient per acre per season.				
Do not make applications less than seven days apart.				

Wheat and Triticale (14 day phi for grain, forage, and hay):

Insects Controlled	Rate of Application	Method of Application
Cutworm spp., including Army Cutworm Painted Lady (Thistle) Caterpillar	1.28 to 4.0 ounces (0.008 to 0.025 pound active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations
Armyworm, Southern Armyworm, True Armyworm, Yellowstriped Cereal Leaf Beetle Flea Beetle spp. Pale Wastern Cutworm Plant Bug spp. Spittlebug Webworm spp.	1.76 to 4.0 ounces (0.011 to 0.025 pound active) per acre	reaching locally determined economic thresholds. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).
Aphid spp. ^{1,2} Armyworm, Beet ² Armyworm, Fall Chinch Bug Grass Sawfly Grasshopper spp. Greenbug ^{2,3} Stink Bug spp. Thrips spp. ^{2,3} Wheat Stem Sawfly (adult) ³ Whitefly spp. ^{2,3}	3.2 to 4.0 ounces (0.02 to 0.025 pound active) per acre	For chinch bug control, begin applications when bugs migrate from small grains or grass weeds. Apply sufficient spray volume to penetrate the soil/stem interface, leaf collars, and sheaths. Follow appropriate spray drift precautions on this label.

Do not make applications less than 14 days apart.

Do not apply more than 0.125 pound active ingredient per acre per season. ¹ Aphid control may be variable depending on species present and host-plant relationships.

² See resistance statement under "Directions For Use" section

³ Aids in Control

Dealers Should Sell in Original rackages Only. Conditions of Sale and Limitation of Warranty and Liability:

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control or FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. EXCEPT AS WARRANTED BY THIS LABEL, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been contrary to label instructions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.

To the extent consistent with applicable law FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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