

46077-7

02/26/88

FEB 26 1988

Pesticide Advisory Service
37 Midvale Road
Hartsdale, N.Y. 10532

Gentlemen:

Subject: Label Revision
Azinphos Methyl 50W
EPA Registration No. 46077-7
Your Submission of July 2, 1987

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided that you make the labeling changes listed below before you release the product for shipment bearing the the amended labeling:

1. The following restricted use statement must appear on the front panel.

"For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by certified application's certification".

2. The Rotational Crops Statement must be revised to read the following:

"Do not plant root crops other than those with registered azinphos-methyl uses in azinphos methyl treated soil sooner than 6 months after the last application. Do not plant any other crop other than those with registered azinphos methyl uses in the treated soil sooner than 30 days after last application".

3. Under the use directions for Blueberries change the statement "4 times per season" to 2 times per season. Change the "3 days of harvest" to 14 days of harvest.

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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Submit five (5) copies of you final printed labeling
before you release the product for shipment.

Sincerely,

Dennis H. Edwards Jr.
Product Manager (12)
Insecticide Rodenticide Branch
Registration Division (TS-767C)

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A Z I N P H O S M E T H Y L
5 0 W
(C O T N I O N - M E T H Y L)
A G R I C U L T U R A L I N S E C T I C I D E

For control of certain insect pests on field crops, fruit, vegetable crops, nuts and certain ornamental plantings.

ACTIVE INGREDIENT:

O,O-Dimethyl S-[(4-oxo-1, 2, 3-benzotriazin-3(4H)-yl) methyl] phosphorodithioate	50%
INERT INGREDIENTS.....	50%
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON

PELIGRO PRECAUCION AL USUARIO: SI USTED NO LEE INGLES, NO USE ESTE PRODUCTO HASTA QUE LE ETIQUETA HAYA SIDO EXPLICADO AMPLIAMENTE (TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you).

STOP! READ THE LABEL BEFORE USE

STATEMENT OF PRACTICAL TREATMENT

In case of poisoning, call a physician immediately. Have patient lie down and keep quiet.

If **swallowed**-administer water freely and induce vomiting by giving one dose (1/2oz. or 15ml.) of syrup of ipecac. If vomiting does not occur within 10 to 15 minutes, administer second dose. If syrup of ipecac is not available induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. If **inhaled**-remove from contaminated area and have patient lie down and keep quiet. If **on skin**-remove contaminated clothing and wash skin immediately with warm soap and water. If **eyes are contaminated**, wash with flowing water for at least 15 minutes.

See side panel for additional precautionary statements.

EPA Reg. No. 46077-7

Net Weight: Pounds

EPA Est. No. 11678-IS-01

Distributed by:

PESTICIDE ADVISORY SERVICE
37 Midvale Road
Hartsdale, N.Y. 10532

ACCEPTED
with COMMENTS
by EPA Regional Office

FEB 26 1988

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended by the FIFRA Act
1972

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SIDE PANEL
PRECAUTIONARY STATEMENT

HAZARDS TO HUMANS AND
DOMESTIC ANIMALS
DANGER POISON

Fatal if swallowed, inhaled, or absorbed through the skin. Do not get in eyes or on skin. Do not breathe dust or spray mist. Spray operator should work to windward to stay out of drift or mist.

When loading spray tank or handling the powder at any other time, wear protective clothing, natural rubber gloves and goggles.

When handling the powder, wear a pesticide mask or respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11.

Do not contaminate feed of foodstuffs. Keep out of reach of children and domestic animals. Keep all unprotected persons out of the operation area or vicinity where there may be danger of drift. Wash hands, arms, and face thoroughly with soap and warm water before eating or smoking. Wash all contaminated clothing with soap and hot water before re-use.

SYMPTOMS OF POISONING: A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

TO PHYSICIAN: ANTIDOTE—Administer atropine sulfate by injection. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal, and may be administered in conjunction with atropine. Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious case of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

ROTATIONAL CROPS

~~Treated areas may be replanted with any crop specified on this label as soon as practical after last application. Root crops may be planted 180 days after last application. All other crops must not be planted within 30 days of last application.~~

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic fish and wildlife. Do not apply directly to water or wetlands (swamps, bogs, marches, and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoff from treatment areas may be hazardous to aquatic organisms in neighboring areas. This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

PROTECTIVE CLOTHING AND WORK SAFETY STATEMENTS

If handled indoors provide mechanical exhaust ventilation. Keep all unprotected persons, children, livestock, and pets away from treated areas or where there is danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, **STOP** work and get help right away. See statement of Practical Treatment section of the label. For questions regarding further treatment, or information about the product, call the National Pesticide Telecommunications Network at 800-858-7378.

HANDLE THE CONCENTRATE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT: Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands, and feet. Wear chemical resistant gloves, chemical resistant apron, and chemical resistant shoes, shoe coverings or boots. Wear goggles or a face shield and a pesticide respirator approved by the National Institute for Occupational Safety and Health under the provision of 30 CFR Part 11.

WEAR THE FOLLOWING PROTECTIVE CLOTHING DURING APPLICATION, EQUIPMENT REPAIR, EQUIPMENT CLEANING, DURING REENTRY TO TREATED AREAS, AND DISPOSAL OF THE PESTICIDE: Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands, and feet. Wear chemical resistant gloves and chemical resistant shoes, shoe coverings and boots. Wear a chemical resistant hat during airblast application.

During application from an enclosed tractor cab or airplane cockpit, or other suitable vehicle in which the windows are rolled up, long sleeved shirt and long pants may be worn in place of the above protective clothing. Chemical resistant gloves must be available in the cab or cockpit and must be worn while exiting. This clothing is inadequate to protect you during equipment repair, equipment cleaning, re-entry, or during pesticide disposal. **IMPORTANT! BEFORE REMOVING GLOVES, WASH THEM WITH SOAP AND WATER. ALWAYS WASH HANDS, FACE, AND ARMS WITH SOAP AND WATER BEFORE SMOKING, DRINKING, EATING OR TOILETING.**

After work, take off all clothing and shoes. Shower using soap and water. Do not wear contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirators. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with Azinphos-Methyl must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

During aerial application, human flaggers are prohibited unless in totally enclosed vehicle.

RE-ENTRY STATEMENTS FOR FARMWORKERS

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by

unprotected persons. Do not enter treated areas for 24 hours after application unless protective clothing is worn as describes in the product labeling. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

The following may appear on Supplemental Labeling accompanying the product. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings should include those statements found under the label heading "Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: **DANGER**, areas treated with Azinphos Methyl 50W on (date of application). Do not enter treated areas for 24 hours after application unless protective clothing is worn, as described in the product labeling. **If on skin**, remove contaminated clothing and wash skin immediately with soap and warm water. **If swallowed**, vomiting should be induced. **If inhaled**, remove from contaminated area and have patient lie down and keep quiet. **If eyes are contaminated**, wash with flowing water for at least 15 minutes. (See Precautionary Statement on label).

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DIRECTION FOR USE AZINPHOS METHYL 50W

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

Important: Read and understand these entire directions and warranty statement before using Azinphos-Methyl 50W

MIXING: Azinphos Methyl 50W insecticide mixes easily with water to form a suspension which is readily usable in all conventional ground spray equipment. Mix the required Azinphos Methyl 50W with a small quantity of water. Add this premix through the screen while filling the spray tank or fill the tank to the required level and add the premix. Operate the agitator while mixing.

DOSAGE: Use specified dosage of Azinphos Methyl 50W in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

SPRAYING: Work to windward. Protect sprayer operators from drift or mist. When low volumes of spray are applies complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service for specific use information in your area.

RECOMMENDED APPLICATIONS

CROP	INSECT	Pounds Azinphos Methyl	REMARKS
FIELD CROPS			
Alfalfa	Leafhoppers	1/2 to 1	Apply specified dosage per acre using a minimum of 10 gallons of water per acre. It may be necessary to use 20 to 25 gallons of water per acre on heavy growth for control of alfalfa weevil or Egyptian alfalfa weevil with ground equipment. Do not apply within 14 days of harvest or grazing at the rates of 1/2 to 3/4 pounds per acre or within 16 days at the rate of 1 pound per acre. Do not apply rates above 1 pound per acre within 21 days of harvest or grazing. Do not apply more than once per cutting at any rate.
Alfalfa	Mites		
Alfalfa	Alfalfa weevil	3/4 to 1-1/2	
Egyptian alfalfa	weevil		
Alfalfa plant bug		1 to 1-1/2	
Meahopper			
Grasshoppers			
Lygus bugs			
Spittlebug			

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RECOMMENDED APPLICATIONS (Cont'd)

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CROP	INSECT	Pounds Azinphos Methyl	REMARKS																				
Barley Oats Rye Wheat	Cereal leaf beetle	3/4 to 1	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than once per season. Do not harvest for food, feed, forage or graze within 30 days of treatment.																				
Soybeans	Aphids Bean leaf beetle Green cloverworm Leafhoppers Leaf miners Leaf rollers Stink bugs Velvet bean caterpillar Mexican bean beetle	3/4 to 1 1 to 1-1/2	Apply specified dosage per acre in sufficient water to give complete coverage. Repeat as necessary. Do not apply within 45 days of harvest. Do not graze or feed treated vines to livestock.																				
Tobacco	Aphids Grasshoppers Tobacco hornworm Tobacco flea beetle Tobacco budworm	1 to 1-1/2 1-1/2	Apply specified dosage per acre in sufficient water for complete coverage. Treat for hornworms as soon as egg masses or worms are first found. Repeat as necessary but not within 6 days of harvest. Prime before treating.																				
FRUIT			Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 1,000 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 5/8 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest.																				
Apples Crab apples Pears Quinces	<table border="0"> <tr> <td>Aphids</td> <td>Orange</td> </tr> <tr> <td>Apple maggot</td> <td>tortrix</td> </tr> <tr> <td>Codling moth</td> <td>Plum curculio</td> </tr> <tr> <td>European apple sawfly</td> <td>Putnam</td> </tr> <tr> <td>Eye-spotted bud moth</td> <td>scale</td> </tr> <tr> <td>Forbes scale</td> <td>Red-Banded</td> </tr> <tr> <td>Fruit tree leaf roller</td> <td>Leaf roller</td> </tr> <tr> <td>Green fruit-worm</td> <td>San Jose scale</td> </tr> <tr> <td>Leafhoppers</td> <td>Stink bug</td> </tr> <tr> <td>Mealybug</td> <td>Tarnished plant bug</td> </tr> </table>	Aphids	Orange	Apple maggot	tortrix	Codling moth	Plum curculio	European apple sawfly	Putnam	Eye-spotted bud moth	scale	Forbes scale	Red-Banded	Fruit tree leaf roller	Leaf roller	Green fruit-worm	San Jose scale	Leafhoppers	Stink bug	Mealybug	Tarnished plant bug	1/2 to 5/8	<p>is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulphur treatments.</p> <p>Azinphos Methyl 50W used alone may not provide satisfactory control. Consult your local agricultural advisor or extension service for recommendations.</p>
Aphids	Orange																						
Apple maggot	tortrix																						
Codling moth	Plum curculio																						
European apple sawfly	Putnam																						
Eye-spotted bud moth	scale																						
Forbes scale	Red-Banded																						
Fruit tree leaf roller	Leaf roller																						
Green fruit-worm	San Jose scale																						
Leafhoppers	Stink bug																						
Mealybug	Tarnished plant bug																						

Do not use vines for feed or forage. Do not graze treated areas.

RECOMMENDED APPLICATIONS (Cont'd)

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CROP	INSECT		Pounds Azinphos Methyl 50W	REMARKS
FRUIT (Cont'd)				
Apples Crab apples Pears Quinces (Cont'd)			2 to 3	AERIAL APPLICATIONS: Apply specified dosage in a minimum of 3 gallons of water per acre. Apply by fixed-wing or helicopter aircraft. Where aphids are a problem aerial applications may not provide satisfactory control. Do not apply more than 5 times at the 2 pound rate nor 3 times at rates above 2 pounds. Do not apply within 7 days of harvest.
Cherries (Except California)	Eye-spotted bud moth	Lesser peach tree borer	1/2 to 1	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. GUTHION used alone may not provide satisfactory control. Consult your local agricultural advisor or extension service for recommendations.
	Forbes scale	Mites		
	Fruit flies	Plum curculio		
	Fruit tree leaf roller	San Jose scale		
	Cherry leaf miner		1/2	
	Mineola moth			
Apricots Nectarines Peaches	Aphids	Platynota	1/2 to 5/8	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season, nor within 21 days of harvest for apricots, nectarines, and peaches, nor within 15 days of harvest for plums and prunes. Apply the 3/4-pound rate for oriental fruit moth and peach twig borer on apricots, nectarines and peaches only before mid-season. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For scale control, apply when crawlers are present.
	Cottony peach scale	flavedana leaf roller		
	European fruit lecanium	Plum curculio		
	Forbes scale	Red-banded leaf roller		
	Lesser peach tree borer	San Jose scale		
	Mites	Stink bug		
	Peach tree borer	Tarnished plant bug		
		Terrapin scale		
		Walnut scale		
		White peach scale		
Nectarines	Oriental fruit moth		1/2 to 3/4	to trunk from ground to scaffold limbs, timed with moth flight. For scale control, apply when crawlers are present.
	Peach twig borer			
Plums Prunes	Thrips		1/2 to 5/8	Azinphos Methyl 50W is compatible with dormant and summer oils which may be added to peach and prune sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments. (Remarks Continued)
	Aphids	Peach twig borer		
	Eye-spotted bud moth	Plum curculio	1/2 to 1	
	Forbes scale	Red-banded leaf roller		
	Fruit tree leaf roller	San Jose scale		
	Lesser peach tree borer	Stink bug		
		Tarnished plant bug		

Do not spray live stock
Can be added to spray of fruit

RECOMMENDED APPLICATIONS (Cont'd)

CROP	INSECT	Pounds Azinphos Methyl 50w	REMARKS
FRUIT (Cont'd)			
Plums Prunes (Cont'd)	Mites Tussock moth Orange tortrix Peach tree borer	1/2 to 1	NOTE: It is suggested that when treating nectarines during bloom period, beekeepers should be warned well in advance to remove hives a safe distance from orchards to be treated. <u>Az-M5W</u> used alone may not provide satisfactory control. Consult your local agricultural advisor or extension service for recommendations.
	American plum borer	1	
Black-berries Boysen-berries Logan-berries Rasp-berries	Leafhoppers		Apply specified dosage per acre to foliage using approximately 200 gallons of water for good coverage. Repeat as necessary but not within 14 days of harvest.
	Leaf rollers	1/2	
	Leaf miners	5/8	
	Aphids	5/8 to 1	
	Obscure root weevil	1	For control of root weevils and borers prior to harvest apply specified dosage per acre to lower portion of canes and to the soil beneath the plants using approximately 200 gallons of water. Do not apply more than twice per season. Do not make applications within 3 days of harvest at rates up to 2 pounds per acre. Rates above 2 pounds per acre should be applied only before fruit set or after crop is harvested.
	Raspberry crown (root) borer	2 to 4	
Blue-berries (Eastern and North Central States only)	Blueberry maggot Fruitworms Lecanium scale Plum curculio	1 to 1 1/2	Apply specified dosage per acre using approximately 200 gallons of water for good coverage. Repeat as necessary but not more than 2 times per season nor within 14 days of harvest. If multiple late season applications of dust formulations of <u>Az-M5W</u> are to be made for blueberry maggot control, then do not make more than two spray applications of <u>Az-M5W</u> per season with the last spray no later than June 15.
Cran-berries	Cranberry fruitworm <u>Sparganothis sulfureana</u> Tipworm	1 to 2	Apply specified dosage per acre using approximately 200 gallons of water for good coverage. Repeat as necessary. Do not apply within 21 days of harvest.
	Fireworms	2	

RECOMMENDED APPLICATIONS (Cont'd)

CROP FRUIT (Cont'd)	INSECT	Pounds Azinphos Methyl 50W	REMARKS
Citrus Fruits	Aphids Black scale Brown soft scale Chaff scale Citricola scale Citrus mealybug Citrus rust mite Citrus thrips Cottony-cushion scale European brown snail Florida red scale Fruit tree leaf rollers Fuller rose beetle Glover scale Orange tortrix Purple scale Snow scale Western tussock moth Whiteflies	1/2 to 3/4	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 2000 gallons of finished spray per acre. A single application per year may be applied up to within 7 days of picking. Where 2 applications are required, the second spray should not be applied within 28 days of harvest. Do not apply more than twice per fruit year. Do not pick fruit or do other work involving contact with the tree, such as pruning, within 7 days of treatment.
	California red scale Texas citrus mite Yellow scale	3/4	
Grapes	Grape berry moth Grape bud beetle Grape cane girdlers Grape mealybug Leafhoppers Mites Red-banded leaf roller Thrips	1/2 to 1	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 300 gallons of finished spray per acre. Repeat as necessary but not more than 3 times per season. Minimum dosage specified may be applied up to harvest. Higher rates up to 3/4 pound require a 10-day interval to harvest and above 3/4 pound a 28-day interval to harvest.
Straw- berries	Aphids Meadow spittlebug Oblique-banded leaf roller Obscure root weevil Omnivorous leaf tier Pea leaf weevil Small black (grass) weevil Strawberry leaf rollers Whitefly	1	Apply specified dosage in 200 gallons of water per acre as a full coverage spray.* Repeat as necessary. Do not apply within 5 days of harvest.

Do not graze livestock in treated orchards or groves 51 days after treatment.

RECOMMENDED APPLICATIONS (Cont'd)

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CROP	INSECT	Pounds <i>Azinphos Methyl 50W</i>	REMARKS
<i>N.W.G.</i> Almonds	Peach twig borer	3/4 to 1	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 500 gallons of finished spray per acre. Do not apply more than twice per season nor within 60 days of harvest. Allow 30 days between applications.
Filberts (Pacific North- west only)	Apple mealybug Filbertworm Filbert aphid Filbert leaf roller	1/2 to 1-1/2	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 1000 gallons of finished spray per acre. Repeat as necessary. Do not apply within 30 days of harvest. Do not graze livestock in treated groves for 21 days after treatment.
Pecans	Aphids Fall webworm Hickory shuckworm Leaf miners May beetles Mites Pecan casebearer Southern green stink bug Spittlebugs Twig girdlers Walnut caterpillars	3/4 to 1-1/8	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 1800 gallons of finished spray per acre. Repeat as necessary. Do not apply after husks split. Where more than 11-1/4 pounds of <i>Azinphos Methyl 50W</i> are applied per acre in a single application do not graze livestock in treated groves. Where 11-1/4 pounds or less of <i>Azinphos Methyl 50W</i> are applied per acre, livestock may be grazed in treated groves after a 21-day post-treatment interval.
Walnuts	Codling moth Filbertworm Navel orangeworm	3/4 to 1-7/8	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 1100 gallons of finished spray per acre. Repeat as necessary. Do not apply after husks split. Do not graze livestock in treated groves for 21 days after treatment.

RECOMMENDED APPLICATIONS (Cont'd)

13/20

CROP	INSECT	Pounds Azinphos Methyl 50W	REMARKS
VEGETABLES			
Onion- chokes	Plum moth	3	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 30 days of harvest. Do not feed or ensile treated forage. ✓
Beans (Dry & Snap)	Leaf rollers Mites	1/2 to 1	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply to snap beans within 7 days of harvest nor to dry beans within 30 days of harvest. Do not exceed 4 applications on dry beans. Do not feed or ensile treated forage. ✓
	Aphids Bean leaf beetle Green cloverworm Leafhoppers Leaf miners Stink bugs Velvet bean caterpillar	3/4 to 1	
	Mexican bean beetle Spotted cucumber beetle Striped cucumber beetle Tarnished plant bug Western-striped cucumber beetle	1	
Broccoli Brussels Sprouts Cabbage	Aphids Cabbage looper Diamondback moth Imported cabbageworm	1 to 1-1/2	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 7 days of harvest for Brussels sprouts, 15 days of harvest for broccoli and cauliflower, nor within 21 days of harvest for cabbage. ✓
	Cabbage maggot	1/4 to 3/8	Mix specified dosage in 50 gallons of water. Apply 4 to 6 ounces of this emulsion per plant at or immediately after transplanting.
	Cabbage maggot (Direct seeded fields in California only)	1-1/2	Apply specified dosage per acre in sufficient water for uniform distribution. Mix in upper 2 inches of soil prior to seeding or spray in the seed row at planting time. Usually 2 to 3 additional sprays are necessary during the growing season, depending on time of year and maggot populations. Do not apply within 21 days of harvest.
Cauli- flower			

RECOMMENDED APPLICATIONS (Cont'd)

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CROP	INSECT	Pounds Azinphos Methyl 50%	REMARKS
VEGETABLES (Cont'd)			
Broccoli Brussels Sprouts Cabbage	Cabbage maggot (Transplant fields in California only)	1-1/2	Apply specified dosage in 300 to 400 gallons of water per acre as a soil drench in rows when damage first appears. Additional applications may be necessary. Do not apply within 21 days of harvest.
Cauli- flower (Cont'd)			
Celery	Aphids Leaf miners Leafhoppers Spittlebug Tarnished plant bug	1	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 200 gallons of finished spray per acre. Repeat as necessary but not within 14 days of harvest.
Black- eyed peas (South- ern peas, Crowder peas)	Corn earworm Cowpea curculio	1-1/2 to 2	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than 4 times per season nor within 7 days of harvest. Do not use vines for feed or forage nor pasture treated areas.
	Leaf miners Stink bugs	3/4 to 1	
Cucumbers	Spotted cucumber beetle Striped cucumber beetle Wester-striped cucumber beetle	1	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than 3 times per season nor within 1 day of harvest.
Eggplant	Leaf miners	3/4 to 1	Apply specified dosage per acre in sufficient water to give complete coverage. Repeat as necessary. Do not apply after fruit set.
	European corn borer Flea beetles	1	
Onions (Green & Dry)	Thrips	1 to 1-1/2	Apply specified dosage per acre in sufficient water to give complete coverage. Do not apply more than 3 times per season nor within 28 days of harvest of dry onions or 7 days of harvest of green onions.

RECOMMENDED APPLICATIONS (Cont'd)

15/20

CROP	INSECT	Pounds <i>Azinphos Methyl 50W</i>	REMARKS	
VEGETABLES (Cont'd)				
Appers	Leaf miners	3/4 to 1	Apply specified dosage per acre in sufficient water to give complete coverage. A maximum of 4 treatments may be made up to within 3 days of harvest. Where more than 4 applications are required, do not apply last spray within 14 days of harvest.	
	European corn borer Flea beetles	1		
Potatoes	Colorado potato beetle	3/4	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 7 days of harvest.	
	Banded cucumber beetle			
	Leaf miners	3/4 to 1	NOTE: Resistance of Colorado potato beetle has occurred in some areas of the Northeast. Consult your local Extension Service or sales representative for details.	
	European corn borer Flea beetle Leafhoppers Spittlebugs Tarnished plant bug	1 to 1 1/2		
	Tuberworm	1-1/8 to 1-1/2		
Spinach	Aphids Leaf miners Mites	3/4 to 1	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 14 days of harvest.	
Tomatoes	Colorado potato beetle	3/4	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. The high rates should be used where heavy infestations of late instar lepidopterous larvae (large worms) and pinworms are present. Rates of 1-1/2 pounds per acre or less may be applied up to day of harvest. Rates above 1-1/2 pounds per acre require an interval of 14 days between application and harvest.	
	Banded cucumber beetle			3/4 to 1
	Drecochyla			
	Green stink bug			
	Leaf miners			
	Whitefly		1 to 1-1/2	NOTE: Resistance of Colorado potato beetle has occurred in some areas of the Northeast. Consult your local Extension Service or sales representative for details.
	Aphids			
	European corn borer Flea beetles Grasshoppers Leafhoppers Thrips	1 to 1-1/2		
	Tuberworm	1-1/8 to 1-1/2		
	Corn earworm Fruitworm Hornworm Pinworm Yellow-striped armyworm	1-1/2 to 3		

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RECOMMENDED APPLICATIONS

CROP	INSECT	POUNDS AZINPHOS METHYL 50W	REMARKS
<u>MELON</u>	Leafhoppers		
	Leaf miners	3/4 to 1	Apply specified dosage per acre in sufficient water to give complete coverage. Repeat as necessary up to the day of harvest but not more than 4 times per season.
Honeydew melon	Rindworms		
Muskmelon	Spotted cucumber beetle		
(cantaloupe)	Striped cucumber beetle		
Watermelons	Western-striped cucumber beetle		Apply specified dosage per 100 gallons of water (2 level teaspoonsful per gallon). Spray all foliage surfaces including the underside of leaves for complete coverage. For control of Black pine leaf, brown soft, European elm, and Putnam scales, use 4 level teaspoonful per gallon. Repeat as necessary.
Other melons			
Ornamentals	Aphids		
	Ceroccus Scale	3/4 to 1	
Nursery plants	Euonymus Scale		
	Juniper Scale		
	Lace Bugs		
	Leafhopper		
	Mites		
	Olive Scale		
	Oystershell Scale		
	Pulvinaria Scale		
	Thrips		
	Brown Soft Scale		
	Putnam Scale	2	Apply specific dosage per 100 gallons of water. Time application to coincide with moth flight when cones are open for pollination. Thorough coverage of cones is necessary for maximum control. Repeat as necessary.
	Blackpine Leaf scale	1 2/2 to 2	
	European elm Scale		
	Cone Midge	4 to 8	
	Cone Moth		
	European pine short moth		
	Nantucket pine tip moth		

Injury to hawthorn of American Binder may occur under some conditions. Do not allow children or pets on treated areas until material has been washed into soil and treated area is dry.

*This concentration is calculated for conventional hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, increase the concentration of Azinphos-Methyl 50W in the spray mixture in order to apply amount of Azinphos-Methyl 50W per acre equivalent to a full coverage spray.

RESTRICTIONS

Do not use on other crops used for food or forage. Use only according to label direction. Application at rates above those shown may result in illegal crop residues. Do not graze livestock in treated orchards or groves for 21 days after treatment. Do not treat food crops grown in the greenhouse.

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ENDANGERED SPECIES RESTRICTIONS

The use of any pesticide in a manner that may kill or otherwise harm an endangered or threatened species or adversely modify its habitat is a violation of federal laws. The use of this product is controlled to prevent death or harm to endangered or threatened species that occur in the following counties or elsewhere in their range. Before using this pesticide in the following counties you must obtain the EPA Crop and Rangeland / Pastureland Endangered Species Bulletins. The use of this pesticide is prohibited in these counties unless specified otherwise in the Bulletins. The EPA Bulletins are available from either your County Agricultural Extension Agent, the Endangered Species Specialist in your State Wildlife Agency Headquarters or the appropriate Regional Office Headquarters of either the US Fish and Wildlife Service (FWS) or the US Environmental Protection Agency. THESE BULLETINS MUST BE REVIEWED PRIOR TO PESTICIDE USE.

GUTHION AZINPHOS-METHYL ENDANGERED SPECIES LABELING INFORMATION FOR CROP USES

STATE (Regional Office FWS) Species	COUNTY	
ALABAMA (Atlanta, GA) Slackwater darter	LAUDERDALE LIMESTONE	MADISON
Alabama cavefish	LAUDERDALE	
Freshwater mussels	COLBERT JACKSON	MARSHALL MORGAN
ARIZONA (Albuquerque, NM) Woundfin	MOHAVE	
Gila topminnow	GRAHAM	SANTA CRUZ
ARKANSAS (Atlanta, GA) Freshwater mussels	CLAY CLARK CROSS LAWRENCE	RANDOLPH SHARP ST. FRANCIS
Leopard darter	POLK	
CALIFORNIA (Portland, OR) Delta green ground beetle	SOLANO	
Valley elderberry longhorn beetle	MERCED SACRAMENTO	
Aleutian Canada goose	COLUSA MERCED	SUTTER STANISLAUS
Kern primrose sphinx moth	KERN	
American peregrine falcon	HUMBOLT LOS ANGELES MARIPOSA MENDOCINO MONTEREY SAN DIEGO	SAN LUIS OBISPO SAN MATEO SANTA CLARA SANTA CRUZ SONOMA TUOLUMNE
Blunt-nosed leopard lizard	FRESNO KERN KINGS MADERA MERCED	MONTEREY SAN LUIS OBISPO SANTA BARBARA STANISLAUS TULARE
Santa Cruz long-toed salamander	MONTEREY	SANTA CRUZ
Unarmored three-spine stickelback	LOS ANGELES	SANTA BARBARA

Endangered Species Labeling Information (continued)

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STATE (Regional Office FWS) Species	COUNTY	
COLORADO (Denver, CO) Colorado squawfish	BLANCO DELTA GARFJELD MESA	MOFFAT RIO ROUTT
KENTUCKY (Atlanta, GA) Freshwater mussels	BALLARD EDMUNDSON JACKSON LAUREL MARSHALL	McCRACKEN PULASKI ROCKCASTLE WARREN WAYNE
MICHIGAN (Twin Cities, MN) American peregrine falcon	LEE VANAU	
MINNESOTA (Twin Cities, MN) American peregrine falcon	CHISAGO DAKOTA GOODHUE HOUSTON	WABASHA WASHINGTON WINONA
MISSISSIPPI (Atlanta, GA) Bayou darter	CLAIBORNE	COPIAH
NEVADA (Portland, OR) Woundfin	CLARK	
Pahranagat bonytail	LINCOLN	
Cui-ui	WASHOE	
Pahrump killifish	CLARK	WHITE PINE
NEW MEXICO (Albuquerque, NM) Pecos gambusia	CHAVES	EDDY
OHIO (Twin Cities, MN) Scioto madtom	CHAMPAGNE FRANKLIN LOGAN	MADISON PICKAWAY UNION
OKLAHOMA (Albuquerque, NM) Leopard darter	LEFLORE	McCURTAIN
OREGON (Portland, OR) American peregrine falcon	CLACKAMUS DOUGLAS HOOD RIVER JACKSON	MARION UMATILLA WASCO
TENNESSEE (Atlanta, GA) Slackwater darter	LAWRENCE	WAYNE
Freshwater mussels	BLOUNT CLAIBORNE DECATUR FRANKLIN HANCOCK HARDIN LINCOLN LOUDON	MARSHALL MAURY RHEA ROANE SCOTT SEQUATCHIE SMITH SULLIVAN

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Endangered Species Labeling Information (Continued)

STATE (Regional Office FWS) Species	COUNTY
TEXAS (Albuquerque, NM) Attwater's Greater Prairie Chicken	ARANSAS AUSTIN COLORADO FORT BEND GOLIAD REFUGIO VICTORIA
Comanche Springs pupfish	JEFF DAVIS REEVES
Pecos gambusia	JEFF DAVIS REEVES PECOS
Texas blind salamander	HAYS
San Marcos salamander	COMAL HAYS
San Marcos gambusia	HAYS
Houston toad	BASTROP HARRIS BURLESON
Mountain darter	COMAL HAYS
UTAH (Denver, CO) Woundfin	WASHINGTON
Colorado squawfish	CARBON KANE DUCHESNE SAN JUAN EMERY UINTAH GARFIELD WAYNE GRAND
VIRGINIA (Newton Corners, MA) Freshwater mussels	LEE TAZEWELL RUSSELL WASHINGTON SCOTT WISE SMYTH
WASHINGTON (Portland, OR) American peregrine falcon	SKAMANIA
WISCONSIN (Twin Cities, MN) American peregrine falcon	CRAWFORD RICHLAND DANE SAUK DOOR TREMPEALEAU

STORAGE AND DISPOSAL

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Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal.

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

Container Disposal: Do not use container in connection with food, feed, or drinking water. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away.

Warranty Statement

Seller warrants that the product conforms to its chemical description and is reasonable fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any of the warranty of **MERCHANTABILITY** or **FITNESS FOR A PARTICULAR PURPOSE**, express or implied, extends to the use of this product contrary to label instruction of under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

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