

66222-11

4-7-1999

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Andy Eimanis
Makhteshim Agan of North America
551 Fifth Avenue Suite 1100
New York, NY 10176

APR 7 1999

Subject: Cotnion-Methyl Azinphos Methyl 50W
EPA Registration No. 66222-11
Amendment dated March 19, 1999
Addition of worker risk mitigation to label.

Dear Mr. Eimanis:

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 indicated below before you release the product for shipment bearing the amended labeling:

1. As per the first comment on the 4 March 1999 EPA Letter where on the previous submitted label it stated "Agricultural Insecticide" the correction specified was not made. In the presently submitted label that statement was deleted, but the statement "Organophosphate Insecticide" or "Agricultural Organophosphate Insecticide" must be added as per the 4 March 1999 Letter.
2. On page 5 under the statement "Posting Requirements", since greenhouse uses have been deleted, remove the words "or retail greenhouses" at the end of the first paragraph.
3. On page 2 under the heading "Applicators other than airblast and other handlers...must wear" change the statement "Chemical-resistant eyewear for overhead exposure" to "Chemical-resistant headgear for overhead exposure".
4. On page 3 under the heading "Mixers and loaders must wear" add the use of "Protective eyewear".

Submit two copies of your final printed labeling before you release the product for shipment. If you have any questions concerning this letter, please contact me at (710) 308-9397.

Sincerely,

George Tompkins

George Tompkins, Ph.D., Entomologist
Insecticide-Rodenticide Branch
Registration Division (7505C)

RESTRICTED USE PESTICIDE

DUE TO ACUTE TOXICITY

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 applicators certification.

COTNION-METHYL

AZINPHOS METHYL 50W

For control of certain insect pests on field crops, fruit, vegetable crops, nut and certain ornamental planting.

This product must be sold/distributed and used in a dry-coupling mixture/loading system.

ACTIVE INGREDIENT:

0,0-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

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).

STOP! READ THE LABEL BEFORE USE

STATEMENT OF PRACTICAL TREATMENT

Organophosphate

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

If swallowed - Vomiting should be induced. 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 on skin - Remove from contaminated clothing and wash skin immediately with soap and warm water.

If eyes are contaminated - Wash with flowing water for at least 15 minutes.

See side panel for additional precautionary statement

Manufactured by: MAKHTESHIM-AGAN OF NORTH AMERICA INC.

551 Fifth Avenue, Suite 1100

New York, N.Y. 10176

EPA Reg. No. 66222-11

EPA Establishment No.

Net Weight:



MAKHTESHIM-AGAN

PRECAUTIONARY STATEMENT HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER POISON PELIGRO

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. Do not contaminate feed or foodstuffs. Keep out of reach of children and domestic animals.

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

TO PHYSICIAN: ANTIDOTE - Administer atropine sulfate in large therapeutic doses. 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.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoffs 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 or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your Cooperative Agricultural Extension Service.

RESTRICTIONS

Do not use on other crops used for food or forage. Use only according to label directions. 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.

ROTATIONAL CROPS

Do not plant root crops other than those with registered Azinphos-Methyl uses in 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 treated soil sooner than 30 days after last application.

PERSONAL PROTECTIVE EQUIPMENT

Airblast applicators must be in fully enclosed cabs or if not fully enclosed must wear:

- Chemical resistant suit over long-sleeved shirt and long-legged pants
- Chemical-resistant hood
- Full-face respirator or half-faced respirator with a face shield
- Chemical-resistant footwear plus socks

Applicators other than airblast and other handlers (other than mixers and loaders) must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant eyewear for overhead exposure
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

ACCEPTED
with COMMENTS
In EPA Letter Dated

APR 7 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the product registered under EPA Reg. No.

66222-11

PERSONAL PROTECTIVE EQUIPMENT (continued)

Mixers and loaders must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant apron when mixing or loading
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

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.

ENGINEERING CONTROLS STATEMENT

Human flagging is prohibited.

- When handlers use enclosed cabs or aircraft in a manner that meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.
- The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the 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. **Important:** Read and understand these entire directions and warranty statement before using Azinphos-Methyl 50W.

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) listed in the chart below of 48 hours.

MAKHTESHIM-AGAN

CROP	ACTIVITY	REI
Tree Crops (except citrus)	Propping	14 days
	Hand Thinning	14 days
	Hand Harvesting	14 days
	Mowing	48 hours
	Irrigating	48 hours
	Scouting	48 hours
	Other activities	48 hours
Citrus	Propping	30 days
	Hand Thinning	30 days
	Hand Harvesting	30 days
	Mowing	48 hours
	Irrigating	48 hours
	Scouting	48 hours
	Other activities	48 hours
Grapes	Girdling	21 days
	Cane throwing	21 days
	Leaf pulling	21 days
	Cane cutting	21 days
	Bunch thinning	21 days
	Hand harvesting	21 days
	Other activities	48 hours
All other crops	All activities	48 hours

Each 48-hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

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:

- Chemical-resistant protective suit
- Chemical-resistant gloves, such as barrier laminate or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

IMPORTANT: Read these entire Directions and Conditions of Sales before using Azinphos Methyl 50W. EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MAKHTESHIM-AGAN AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

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.

COMPATIBILITY: Azinphos Methyl 50W is physically compatible with many registered pesticides and liquid fertilizers. When considering mixing Azinphos Methyl 50W with other pesticides or with liquid fertilizer, first contact your supplier. For further information, contact your Makhteshim representative. If your supplier and Makhteshim representative have no experience with the combination you are considering, you should conduct tests to determine physical compatibility.

To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is considered physically compatible. When mixing wettable powder dry flowable formulations, add and disperse these first, then add liquid pesticides. Conduct another compatibility test at concentrations which will be present in the irrigation lines. If there is any separation which cannot be remixed readily, Makhteshim recommends that the combination not be used.

Combination should be kept agitated and should be applied immediately. Do not allow combination to sit for prolonged periods in the chemical supply tank or irrigation lines.

DOSAGE: Use specified dosage of Azinphos Methyl 50W in the amount of water necessary to give complete coverage of foliage. Determine the total amount of wettable powder to be added to the spray tank based on the rates under "Recommended Application".

SPRAYING: Backpack spraying is prohibited. Work to windward. When low volumes of spray are applied 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.

USE OF THIS PRODUCT IN GREENHOUSES OR ENCLOSED AREAS IS PROHIBITED.

CHEMIGATION

Azinphos Methyl 50W may be applied through recommended types of irrigation systems to many crops. The REMARKS section for each crop list the types of applications allowed. If application through irrigation systems is not listed in the REMARKS section for a crop, Azinphos Methyl 50W may not be applied to that crop through irrigation systems.

Types of Irrigation Systems: Apply Azinphos Methyl 50W only through sprinkler, including center pivot, lateral move, side roll, overhead solid set, or low pressure sprinkler irrigation systems. For control of foliage-feeding pests, use Azinphos Methyl 50W only in systems which provide uniform wetting of the foliage. Do not apply Azinphos Methyl 50W through any other types of irrigation systems or systems which wet only the soil.

GENERAL DIRECTIONS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS

Uniform Water Distribution and System Calibration: The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified for the chemigation application for specific crops. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Chemigation Monitoring: A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. **Drift:** Do not apply when wind speed favors drift beyond the area intended for treatment.

Required System Safety Devices: The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connect 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 decreased to the point when 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.

Using Water from Public Water Systems: DO NOT APPLY AZINPHOS METHYL 50W THROUGH ANY IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly services an average of at least 25 individuals daily at least 60 days out of year.

Azinphos Methyl 50W may be applied through any of the recommended types of irrigation systems which may be supplied by a public water system only if the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements:

The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normal 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 or in cases where there is no water pump, 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.

Posting Requirements: This sign is in addition to any sign posted to comply with the Worker Protection Standard. Posting of areas to be chemigated is required when (1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or (2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in English.

Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period. All words shall consist of letters at least 2-1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDE IN IRRIGATION WATER.

Posting required for chemigation does not replace other posting and reentry interval requirements for farm worker safety.

Compatibility: When mixing with other chemicals refer to Compatibility section elsewhere on this label. **Agitation:** For application of Azinphos Methyl 50W alone, a chemical supply tank is not necessary for premixing since Azinphos Methyl 50W mixes well with water in the irrigation line. If a chemical supply tank is used for application of Azinphos Methyl 50W, alone or in combination with liquid fertilizer or other chemicals, constant strong mechanical or hydraulic agitation must be maintained in the chemical supply tank during the entire period of application.

Chemical Supply Tank Dilution: If a chemical tank is used, you must determine the required amounts of Azinphos Methyl 50W and water to mix in the tank.

The amount of Azinphos Methyl 50W needed equals the number of pints of Azinphos Methyl 50W to be applied per acre multiplied by the number of acres to be chemigated.

The amount of solution needed equals the gallons of solution delivered per hour by the injection pump multiplied by the number of hours chemigation will take place.

For example, if you want to apply 2 pounds of Azinphos Methyl 50W per acre to 130 acres in 20 hours and your injection pump delivers 15 gallons per hour, you need: 2 pounds Azinphos Methyl 50W per acre X 130 acres = 260 pounds of Azinphos Methyl 50W. And, you need: 15 gallons per hour X 20 hours = 300 gallons of suspension = 300 gallons of water.

Cleaning the Chemical Injection System: In order to accurately apply pesticides, the chemical injection system must be kept clean, free of chemical or fertilizer residues and sediments. Refer to your owners manual or ask your equipment supplier for cleaning procedure for your injection system.

Flushing the Irrigation System: At the end of the application period, allow time for all lines to flush the pesticide through all nozzles or emitters before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

SPRINKLER IRRIGATION SYSTEMS

All directions and requirements under the GENERAL DIRECTIONS AND REQUIREMENTS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS section of this label must be followed for sprinkler irrigation systems.

In addition, the following directions apply to sprinkler irrigation systems:

Do not apply when wind speed favors drift beyond the area intended for treatment.

It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, pumps and system safety devices be plugged to prevent chemical contamination of these areas.

Center-Pivoted and Automatic-Move Linear Systems: Inject the specified dosage per acre continuously for one complete revolution or move of the system. DO NOT USE END GUNS. For a foliar application, the system should be run at maximum speed. For soil application, the system should be run at a slower speed with application in at least 1/4 inch of water.

Solid Set and Manually Controlled Linear Systems: For foliar application, injection should be during the last 30 to 60 minutes of regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation. For soil treatment, application should be in at least 1/4 inch of water. DO NOT USE END GUNS.

REQUIREMENTS FOR REDUCING SPRAY DRIFT

Do not apply under conditions where possible drift to unprotected persons or to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption can occur.

1. For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or rotor diameter.

2. Use the largest droplet size consistent with acceptable efficacy. 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.

3. For aerial applications, spray should be released at the lowest height consistent with efficacy and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

4. 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 16 mph. Avoid applications when wind gusts approach 16 mph.

MAKHTESHIM-AGAN

5. Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance 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.

6. Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperature.

7. Do not apply within 150 feet by air or 100 feet by ground of an unprotected person(s) or occupied dwelling.

8. All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

RECOMMENDED APPLICATIONS			
CROP	INSECT	Pounds Azinphos Methyl 50W	REMARKS
FIELD CROPS			
Alfalfa Clover	Leafhoppers Mites	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 with ground equipment. Do not apply within 14 days of harvest or grazing at rates of 1/2 to 3/4 pounds per acre or within 21 days of harvest for grazing. Do not apply more than once per cutting at any rate. Follow all directions given under the CHEMIGATION section of this label.
	Alfalfa weevil Egyptian alfalfa weevil	3/4 to 1 1/2	
	Alfalfa plant bug Flea hopper Grasshoppers	1 to 1 1/2	
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	3/4 to 1	Apply specified dosage per acre in sufficient water to give complete coverage. Do not apply within 45 days of harvest. Do not graze or feed treated vines to livestock.
	Mexican bean beetle	1 to 1 1/2	
Tobacco	Aphids Grasshoppers Tobacco hornworm Tobacco flea beetle Tobacco budworm	1 to 1 1/2	Applied specified dosage per acre in sufficient water for complete coverage. Repeat as necessary, but not within 6 days of harvest. Prime before treating.

FRUIT

Apples
Crabapples
Pears
Quinces

Aphids
Apple maggot
Codling moth
European apple sawfly
Forbes scale
Fruit tree leaf roller
Green fruitworm
Leafhoppers
Orange tortrix
Plum curculio
Putnam scale
Red-banded leaf roller
San Jose scale
Stink bug
Tarnished plant bug
Mealybug

2 to 5/8

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 14 days of harvest. An alternate spray schedule may be used by making 6 applications at the rates of 1/2 to 5/8 pound followed by 2 applications at the 1/2 pound rate but not within 14 days of harvest. Azinphos Methyl 50W 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-sulfur treatments. Azinphos Methyl 50W used alone may not provide satisfactory control. Consult your local agricultural advisor or extension service for recommendations. The REI is specific by crop and activity, see the Table in the Agricultural Use Requirements on page 4.

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. When 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 14 days of harvest.

Cherries
(Except
California)

Eye-spotted bud moth
Forbes scale
Fruit flies
Fruit tree leaf roller
Lesser peach tree borer
Mites
Plum Curculio
San Jose scale

1/2 to 1

Apply specified dosage in 100 gallons of water as a full coverage spray* using no more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 14 days of harvest. Azinphos Methyl 50W used alone may not provide satisfactory control. Consult your local agricultural advisor or extension service for recommendations. The REI is specific by crop and activity, see the Table in the Agricultural Use Requirements on page 4.

Cherry leaf miner
Mineola moth

1/2

Apricots
Nectarines
Peaches

Aphids
Cottony peach scale
European fruit
Lecanium scale
Forbes scale
Lesser peach tree borer
Mites
Peach tree borer
platynota flavedana leaf roller
Plum curculio
Red-Banded leaf roller
San Jose scale
Stink bug

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 14 days of harvest for nectarines, peaches, plums and prunes. Apply the 3/4 pound rate for oriental fruit moth and peach tree borer on 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. Azinphos Methyl 50W is compatible with

(continued)

	Tarnished plant bug Terrapin scale White peach scale Walnut scale		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. NOTE: It is suggested that when treating nectarines during bloom period, bee-keepers should be warned well in advance to remove hives a safe distance from orchards to be treated. Azinphos Methyl 50W used alone may not provide satisfactory control. Consult your local agricultural advisor or extension service for recommendations.
	Oriental fruit moth Peach twig borer	1/2 to 3/4	
Nectarines	Thrips	1/2 to 5/8	
Plums	Aphids	1/2 to 1	
Prunes	Eye-spotted bud moth Forbes scale Fruit tree leaf roller Lesser peach tree borer Peach twig borer Plum curculio Red-banded leaf roller San Jose scale Stink bug Tarnished plant bug Mites Peach tree borers Tussock moth American plum borer	1	The REI is specific by crop and activity, see the Table in the Agricultural Requirements on page 4.
Black-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. Restricted-entry Interval-- 48 hours.
Boysen-berries	Leaf rollers	1/2	
Logan-berries	Leafminers	5/8	
Rasp-berries	Aphids Obscure root weevil	5/8 to 1 1	
	Raspberry crown (root) borer	2 to 4	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 make application 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. Restricted-entry Interval-- 48 hours.
	Obscure root weevil		
Blueberries (Eastern and North Central States)	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 no more than 2 times per season nor within 14 days of harvest. If multiple only, late season applications of dust formulations of Azinphos Methyl 50W are to be made for blueberry maggot control, then do not make more than two spray application of Azinphos Methyl 50W per season with the last spray no later than June 15. Restricted-entry Interval-- 48 hours.

VEGETABLES
(continued)

Beans (Dry and Snap)	Leafrollers Mites Aphids Bean leaf beetle Green cloverworm Leafhoppers Leafminers Stinkbugs Velvet bean caterpillar	1/2 to 1	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply 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.
	Mexican bean beetle Spotted cucumber beetle Striped cucumber beetle Tarnished plant bug Western-striped cucumber beetle	1	
Broccoli Brussels Sprouts Cabbage Cauliflower p12	Aphids Cabbage looper Diamondback moth Imported cabbage-worm	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 cabbage. Restricted-entry interval- 48 hours. Mix specified dosage in 50 gallons of water.
	Cabbage maggot	1/4 to 3/8	Apply 4 to 6 ounces of this emulsion per plant at or immediately after transplanting. Restricted entry interval- 48 hours. 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 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. Restricted-entry interval- 48 hours.
	Cabbage maggot (Direct seeded fields in California only)	1 to 1 1/2	
Celery	Aphids Leafminers Leafhoppers Spittlebug Tarnished plant bug	1	Apply specified dosage in 100 gallons of water per acre as a full coverage spray* using not more than 200 gallons of finished spray per acre. Do not exceed 3 applications per season. Do not apply within 14 days of harvest. Restricted-entry interval- 48 hours.
Cucumbers	Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle	1	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than 3 times per season. Allow at least 7 days between applications and at least 2 day between last application and harvest. Restricted-entry interval- 48 hours.
Eggplant	Leafminers European corn borer Flea beetle	3/4 to 1	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary but do not exceed 3 applications per crop season regardless of rate, formulation, or method of application used and allow at least

Eggplant (continued)			7 day between applications. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Do not apply after fruit set. Do not apply within 21 days of harvest. Restricted-entry interval- 48 hours.
Onions (Green & Dry)	Thrips	1 to 1 1/2	Apply specified dosage per acre in sufficient water to give complete coverage. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Do not apply more than 3 times per season. Allow at least 7 days between applications for dry bulb onions and at least 10 days between applications for green onions. Do not apply within 28 days of harvest for dry onions nor within 7 days of harvest for green onions. Restricted-entry interval- 48 hours.
Peppers	Leafminers	3/4 to 1	Apply specified dosage per acre in sufficient water for 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. Restricted-entry interval- 48 hours.
	European corn borer Flea beetles	1	
Potatoes	Colorado potato beetle	3/4	Apply specified dosage per acre in sufficient water to give complete coverage. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 3 applications may be made per crop season regardless of rate, formulation, or application method used. Do not apply within 7 days of harvest. NOTE: Resistance of Colorado potato beetle has occurred in some areas of the Northeast. Consult your local Extension Service or sales representative for details. Restricted-entry interval- 48 hours.
	Banded cucumber beetle Leafminers	3/4 to 1	
	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 Leafminers	3/4 to 1	Apply specified dosage per acre in sufficient water for complete coverage. Do not exceed more than 3 applications per season nor apply within 14 days of harvest.
Tomatoes	Colorado potato beetle Banded cucumber beetle <i>Drosophila</i> Green stink bug Leafminers Whitefly	3/4	Apply specified dosage per acre in sufficient water for complete coverage. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 4 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications. The high rates should

	Aphids European corn borer Flea beetles Grasshoppers Leafhoppers Thrips	1 to 1/2	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 2 days before harvest. Rates above 1 1/2 lbs. require an interval of 14 days between last application and harvest. For application by irrigation systems, apply specific dosage per acre. Follow all directions given under CHEMIGATION section of this label. Restricted-entry interval -- 48 hours.
	Tuberworm	1 1/8 to 1 1/2	
	Corn earworm Fruitworm Hornworm Yellow-striped armyworm	1 1/2 to 3	

MELONS

Honeydew melon Muskmelon (Cantaloupe) Watermelons Other melons	Leafhoppers Leafminers Rindworms Spotted cucumber beetle Western-striped cucumber beetle	3/4 to 1	Apply specified dosage per acre in sufficient water for complete coverage. A total of 3 applications may be made per crop season. Allow at least 5 days between applications and at least 7 days between last application and harvest. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Restricted-entry interval-- 48 hours.
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ORNAMENTALS

Nursery Plants	Aphid, Cerroccus Scale, Eucorymus Scale, Juniper Scale, Lace Bugs, Leafhopper, Mites, Olive Scale, Oystershell Scale, Pulvinaria Scale, Thrips	3/4 to 1	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 the higher rate. Repeat as necessary. Restricted-entry interval-- 48 hours.
	Brown Soft Scale Putnam Scale	2	
	Blackpine Leaf scale European elm scale	1 1/2 to 2	
	Cone Midge Cone Moth	4 to 8	Apply specified 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. Restricted entry interval-- 48 hours.

	European pine shoot moth Nantucket pine tip moth	4 to 8	Apply specified dosage per acre in sufficient water for good coverage. Time application to coincide with moth flights. Restricted entry interval-- 48 hours.
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* 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.

NOTE: Injury to Hawthorn or American linden may occur under some conditions.

RESTRICTIONS

Do not contaminate water, food or feed by storage or disposal. Use only according to label directions. 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.

STORAGE AND DISPOSAL

Pesticide Storage:

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Do not store below freezing (32°F). 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 materials 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.

Pesticide 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 by use 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, 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.

WARRANTY STATEMENT

Seller warrants that the product conforms to its chemical description and is reasonable fit for the purpose 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 if this product contrary to label instruction or under abnormal conditions or under conditions or under conditions not reasonable foreseeable to seller, and buyer assumes the risk of any such use. Buyer assumes all risks of use, storage of handling of this material not in strict accordance with directions given herewith.