

51036-76

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

August 22, 2001

Mr. Matthew Talley
Micro Flo Company, Inc.
P.O. Box 772099
Memphis, TN 38117-2099

Subject: Azinphosmethyl 50W Agricultural Insecticide
EPA Registration Number 51036-076
Submission dated July 31, 2001

Dear Mr. Talley:

The revised product labeling referred to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable provided you make the labeling change indicated below before you release the product for shipment bearing the amended labeling:

- 1) This label currently states the Preharvest interval by a statement on page 12 stating: "Note: Preharvest Interval days indicated in () after each use." The Agency is concerned that this important restriction may be overlooked by users who may only read the section of the label that pertains to the particular crop they want to treat. All users may not read the Note on page 12 explaining where the PHI restrictions can be found. Therefore, the phrase Pre-harvest Interval must precede the actual numbers in each and every instance where a PHI restriction pertains. For Instance for Alfalfa, it would appear as: "Restrictions: (Preharvest Interval is either 14, 16, or 21 days depending on the use rate.)"
- 2) If the PHI depends on the use rate, that must be stated in the PHI restriction (see alfalfa example above).
- 3) The direction for use section under "BLACKBERRIES, BOYSENBERRIES,

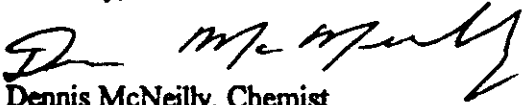
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LOGANBERRIES , RASPBERRIES (sic)" must be divided into two sections. The pest "Obscure root weevil and root borer" have different use directions that the other pests and they must be in a separate section to clarify which application are foliar and which are soil applied and/or applied only to the lower portion of the plants. This type of restriction may have implications in ensuring residues are below established tolerance levels. In fact, the use on root weevil has a PHI of 4 days. Without two different sections, confusion concerning appropriate PHIs could result. The Agency recommends revising other areas of the label where this may also be the case. The Oregon Department of Agriculture has called the Agency with concerns about this particular section of the label, and the Agency wants this section revised as soon as possible.

The Agency notes that the use rates for your product are higher than other azinphosmethyl agricultural products including those registered to the technical registrant. Does MicroFlo have residue data which support the higher use rates? If so, please cite the data. Please respond to the Agency within 45-days of receiving this letter.

Submit one copy of the final printed label before releasing the product for shipment. A stamped copy of the label is enclosed for your records. If you have questions, please contact me at (703) 308-6742 or electronically at mcneilly.dennis@epa.gov.

Sincerely,



Dennis McNeilly, Chemist
Insecticide-Rodenticide Branch
Registration Division (7505C)

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**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.

**AZINPHOSMETHYL 2 EC
ORGANOPHOSPHATE**

This product must be sold/distributed in a dry-coupling mixing/loading system.

ACTIVE INGREDIENT:

0,0-DimethylS-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate	22.2%
INERT INGREDIENTS.....	77.8%
TOTAL	100.0%

This product contains 2 pounds azinphosmethyl per gallon

KEEP OUT OF REACH OF CHILDREN

POISON

DANGER

PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this 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 a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further 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.

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.

**ACCEPTED
with COMMENTS
In EPA Letter Dated:
AUG 22 2001**

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

~~51036-076~~

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See Additional Precautionary Statements Elsewhere on Label

EPA Reg. No. 51036-76

EPA Est. No. 51036-GA-001

Manufactured By:
MICRO FLO COMPANY LLC
P.O. BOX 772099
MEMPHIS, TN 38117
PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

DANGER

Fatal if swallowed, inhaled, or absorbed through skin. Do not breathe vapor or spray mist. Corrosive, causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Spray operator should work to windward side 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 or pin-point pupils, nausea, vomiting, headache, cramps, weakness, blurred vision, labored breathing, drooling or frothing of mouth and nose, muscle spasms and coma.

TREATMENT: Call a physician at once in all cases of suspected poisoning. Have victim lie down and keep quiet. If swallowed, vomiting should be induced immediately. Administer milk or water freely and induce vomiting by giving one dose (1/2 oz.) of syrup of ipecac. If vomiting does not occur within 10 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 contaminated clothing and wash skin at once with soap and water. If eyes are contaminated, flush with clean water for at least 15 minutes and seek medical attention. If inhaled, remove victim to clean air and observe for signs of poisoning.

NOTE 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. Azinphosmethyl inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the motor nerves. **DO NOT GIVE MORPHINE.** Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be

placed in an oxygen tent and treated symptomatically.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

- (800) 424-9300 CHEMTREC (transportation and spills)
- (800) 900-4044 Poison Control Center (human health)
- (800) 345-4735 ASPCA (animal health)

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 F on an EPA chemical resistance category selection chart.

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

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

Applicators and other handlers (other than air-blast) must wear:

1. Coveralls over long-sleeved shirt and long-legged pants
2. Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure
6. Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P or HE filter

Mixers and loaders must wear:

1. Coveralls over long-sleeved shirt and long-legged pants
2. Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear
6. Chemical resistant apron when mixing or loading
7. For exposure in enclosed areas, use 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), or a NIOSH approved respirator with an organic

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vapor (OV) cartridge or canister with any R, P or HE prefilter. For exposure outdoors, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P or HE filter

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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements:

Human flagging is prohibited. When handlers use closed systems, enclosed cabs, or aircraft 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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. 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 waste. Over spray of this product into water at application rates recommended on this label may be fatal to shrimp and crab; do not apply where these are important resources.

NOTE: This product is highly toxic to bees exposed to direct treatment or residues on crops. Do not allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your Cooperative Extension Service.

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PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not store below 25 degrees F for extended periods of time. Do not cut or weld container when empty.

DIRECTIONS FOR USE

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

This product may not be reformulated or used under a State Special Local Need Registration for use on sugarcane, ornamentals, Christmas trees, shade trees, or forest trees.

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.

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.

CROP	ACTIVITY	REI
Tree crops (pome fruits, stone fruits, tree nuts)	Propping	2 days
	Hand thinning	14 days
	Hand harvesting	14 days
	Mowing	2 days
	Irrigating	2 days
	Scouting	2 days
	Other activities	2 days
Citrus	Propping	2 days
	Hand thinning	30 days
	Hand harvesting	30 days
	Mowing	2 days
	Irrigating	2 days
	Scouting	2 days
	Other activities	2 days
Grapes	Girdling	21 days
	Cane throwing	21 days
	Leaf pulling	21 days

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	Cane cutting	21 days
	Bunch thinning	21 days
	Hand harvesting	21 days
	Other activities	2 days
All other crops	Mowing, irrigation, scouting	2 days
	All other activities	4 days

Each 2 day REI is increased to 3 days and each 4 day is increased to 5 days in outdoor areas where average rainfall is less than 25 inches per 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:

1. Coveralls over long-sleeved shirt and long pants
2. Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Not for use or storage in or around the home. Do not store next to food or feed, or transport in or on vehicles containing foodstuffs or feeds. Store in a cool, dry place. Protect from heat.

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

RESTRICTIONS

THIS PRODUCT MUST BE LOADED AND MIXED IN A CLOSED SYSTEM.

Do not use on other crops used for food or forage. Use only according to label directions. Applications at rates above those shown on the label may result in illegal crop residues.

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ROTATIONAL CROP STATEMENT

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

MIXING

Azinphosmethyl 2EC forms an emulsion when diluted with water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. To mix with water pour the required amount of Azinphosmethyl 2 EC into full amount of water and then agitate. Azinphosmethyl 2 EC may also be applied undiluted as an ultra low volume spray with either ground or aircraft equipment that have been adapted and calibrated for ultra-low volume spraying as described under "Recommended Applications" for those crops specified.

DOSAGE

Use specified dosage of Azinphosmethyl 2 EC in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

SPRAYING

Application by backpack or handheld sprayers is prohibited.

Aerial application to pome fruits (apple, crab apples, pears, quince) and peaches by fixed wing aircraft is prohibited.

Aerial applicators must use enclosed cockpits.

Work to windward. Protect spray operators from drift or mist. 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 Extension Service or Experiment Station for specific use information in your area.

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

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GENERAL CHEMIGATION INSTRUCTIONS

Application to pome fruits (apples, crab apples, pears, quince) and peaches and cotton by chemigation is prohibited.

Azinphosmethyl 2 EC may be applied through recommended types of irrigation systems to many crops. If application by chemigation is not listed in the remarks section for a crop, Azinphosmethyl 2 EC may not be applied to that crop through irrigation systems.

Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, side (wheel) roll, overhead solid set, or low pressure sprinkler irrigation system(s). Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

A. Center Pivot, Motorized Lateral Move, and Side (Wheel) Roll Irrigation Equipment: Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank or injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until the product has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

B. Overhead Solid Set and Low Pressure Sprinkler Irrigation Equipment: Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to ensure that the product will remain in suspension during the injection cycle. This

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product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until pesticide is cleared from last sprinkler head.

SAFETY DEVICES

(1) The systems designated above 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. (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. (3) 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. (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. (5) 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. (6) 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. (7) Do not apply when wind speed favors drift beyond the area intended for treatment.

SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water systems 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 serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the 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. 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

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affected.

For additional instructions on safety precautions refer to statements (2), (3), (4), (6), and (7) in the section on SAFETY DEVICES.

POSTING INSTRUCTIONS

Posting of areas to be chemigated is required when any part of a treated area is within 300 feet of sensitive 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 when chemigated area is open to the public, such as golf courses.

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 in place indefinitely as long as they are composed of material to prevent deterioration and maintain legibility for the duration of the posting period. The printed side of the sign should face away from the treated area towards the sensitive areas.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color that 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 PESTICIDES IN IRRIGATION WATER.

REQUIREMENTS FOR REDUCING SPRAY DRIFT

1. 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.
2. 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.
3. 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.

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4. 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.
5. 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.
6. 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.
7. 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.
8. Do not apply within 150 feet by air or 100 feet by ground of an unprotected person(s) or occupied dwelling.
9. All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

To address Integrated Pest Management Issues: Local integrated management systems are available for controlling the pests on this label. Such systems include the use of biological control agents, alternative chemicals and scouting. Consult your local Extension specialist or other consultant for further details.

FIELD CROPS

NOTE: Pre-Harvest Interval days indicated in () after each use.

- ALFALFA (14/16/21), CLOVER (14/16/21):
- Alfalfa Weevil 1 to 3 pints. Aphids, Leafhoppers, Mites - 1 to 2 pints.
 - Egyptian alfalfa weevil - 1 1/2 to 3 pints.
 - Alfalfa plant bug, Fleahopper, Grasshoppers, Lygus bugs, Spittlebug - 2 to 3 pints.

Apply specified dosage per acre, using a minimum of 10 gallons of water per acre when applying with ground equipment, and a minimum of 5 gallons per acre for aerial applications for alfalfa weevils, and at least 1 gallon per acre for the other insects listed. 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. Apply twice per cutting at the 1 pint rate, at intervals of 10 to 11 days. Do not apply more than twice per cutting at the 1 pint rate. Apply only once per cutting at rates above 1 pint per acre. Do not apply within 14 days of harvest at the rates of 1 to 1 1/2 pints per acre, or within 16

days, at the rate of 2 pints per acre. Do not apply rates above 2 pints per acre within 21 days of harvest.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

COTTON (Conventional or low-volume spray): (7)

- Application in Louisiana and states east of the Mississippi River is prohibited.
- Hand harvesting is prohibited.
- Application by chemigation is prohibited.

Boll weevil - 1/2 to 1 pint per acre.

Aphids, Brown cotton leafworm, Cotton fleahopper, Cotton leafworm -1 pint per acre.

Lygus bugs, Thrips, Rapid plant bug, Tarnished plant bug - 1 to 2 pints per acre.

Stinkbug - 2 pints per acre.

Bollworm, Pink bollworm - 2 pints per acre.

Apply specified dosage per acre, by air or ground equipment, in at least 1 gallon of water. No more than a total of 4 applications or 8 pints per acre per crop season may be used regardless of rate, formulation or method of application used. Do not graze livestock in treated areas.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

COTTON (Ultra-low-volume spray): (7)

- Application in Louisiana and states east of the Mississippi River is prohibited.
- Hand harvesting is prohibited.
- Application by chemigation is prohibited.

Boll weevil - 1/2 to 1 pint.

Azinphosmethyl 2 EC may be used undiluted in any ground or aerial spray equipment that has been adapted and calibrated for ultra-low-volume spraying. Spray machines must be equipped with accepted low-volume devices that will produce droplets within the range of 30 to 100 microns in size. ULV aerial applications should be made at altitudes of 10 to 20 feet. A total of 4 applications and 8 pints may be made per crop season regardless of rate, formulation or method of application used. Do not graze livestock in treated areas.

EARLY MID-SEASON CONTROL: Apply specified dosage per acre in accordance with local recommendations.

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DIAPAUSE WEEVIL CONTROL: One pint per acre rate is recommended only for control of diapausing boll weevils. Schedule applications in accordance with local recommendations. Do not graze treated fields.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

FRUIT

NOTE: Pre-Harvest Interval days indicated in () after each use.

APPLES, CRAB APPLES, QUINCES (Washington, Oregon, Idaho and Utah): (14)

Apple maggot, Codling moth, European apple sawfly, Eye-spotted bud moth, Fruit tree leafroller, Green fruitworm, Orange tortix, Plum curculio, Redbanded leafroller - 2 to 4 pints per acre.

Limit applications to 4 per crop season regardless of rate used. Allow at least 7 days between applications. Repeat applications made at less than a 14-day interval is considered early entry activities. Appropriate applicator and early entry PPE must be worn.

- Aerial application by fixed wing aircraft is prohibited.
- Application by chemigation is prohibited.
- Limit application to 18 pints per acre per crop season regardless of rate used.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

NECTARINES, PEACHES: (21) (Eastern U.S.)

Aphids, Cottony peach scale, European fruit lecanium scale, Forbes scale, Lesser peach tree borer, Mites, Oriental fruit moth, Peach tree borer, Peach twig borer, Platynota flavedana leaf roller, Plum curculio, Red-banded leaf roller, San Jose scale, Stink bug, Tarnished plant bug, Terrapin scale, Thrips, Walnut scale, White peach scale - 3 1/2 to 4 1/2 pints.

Apply specified dose per acre as a full coverage spray. Allow at least 14 days between applications.

For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For control of scale, apply when crawlers are present. Azinphosmethyl 2EC is compatible with dormant and summer oils, which may be added to peach sprays in accordance with local recommendations.

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The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

NECTARINES, PEACHES: (21) (West of the Rocky Mountains)

Lesser peach tree borer, Oriental fruit moth, Peach tree borer, Peach twig borer, Platynota flavedana leaf roller, Plum curculio, Red-banded leaf roller, Stink bug, Thrips, Tarnished plant bug, - 6 to 8 pints.

Apply specified dose per acre as a full coverage spray. Allow at least 14 days between applications.

Limit applications to 13 1/2 pints per acre per crop season for nectarines and 18 pints per crop season for peaches.

For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For control of scale, apply when crawlers are present. Azinphosmethyl 2EC is compatible with dormant and summer oils, which may be added to peach sprays in accordance with local recommendations.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

PLUMS AND PRUNES: (15) (Eastern U.S.)

Aphids, Codling Moth, Eye-spotted bud moth, Forbes scale, Fruit tree leaf roller, Lesser peach tree borer, Mites, Orange tortrix, Peach tree borer, Peach twig borer, Plum curculio, Red-banded leaf roller, San Jose scale, Stink bug, Tarnished plant bug, Tussock moth - 3 1/2 to 4 1/2 pints.

American plum borer - 6 pints.

Apply specified dosage per acre as a full coverage spray. Limit applications to 13 1/2 pints per acre per crop season. Allow at least 10 days between applications. Repeat applications made at less than a 14 day interval are considered early entry activities. Appropriate applicator and early entry PPE must be worn. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For control of scale, apply when crawlers are present. Azinphosmethyl 2EC is compatible with dormant and summer oils that may be added to peach sprays in accordance with local recommendations.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

PLUMS, PRUNES: (15) (West of the Rocky Mountains)

Codling Moth, Eye-spotted bud moth, Fruit tree leaf roller, Lesser peach tree borer, Orange tortrix, Peach tree borer, Peach twig borer, Plum curculio, Red-banded leaf roller, Stink bug, Tarnished plant bug, Tussock moth - 4 to 8 pints.

American plum borer - 6 to 8 pints.

Apply specified dosage per acre as a full coverage spray. Limit

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applications to 13 1/2 pints per acre per crop season. Allow at least 10 days between applications. Repeat applications made at less than a 14 day interval are considered early entry activities. Appropriate applicator and early entry PPE must be worn. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. Azinphosmethyl 2EC is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations. Allow 15 days between last application and harvest.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

BLACKBERRIES, BOYSENBERRIES, LOGANBERRIES, RASPBERRIES: (14)

Leafhoppers, Leaf rollers - 3 pints.

Leaf miners - 3 3/4 pints.

Aphids - 3 3/4 to 5 pints.

Obscure root weevil - 5 pints.

Apply specified dosage per acre with aerial or ground equipment using sufficient water for good coverage. Limit applications to 4 per crop season regardless of rate used. Allow at least 10 days between applications.

Raspberry crown (root) borer - 4 to 8 pints.

Obscure root weevil - 5 pints.

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 4 pints per acre. Rates above 4 pints per acre should be applied only before fruitset, or after crop is harvested.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

BLUEBERRIES (Eastern and North Central states only): (7)

Blueberry maggot, Fruitworms, Lecanium scale, Plum curculio - 2 to 3 pints.

Apply specified dosage per acre with aerial or ground equipment using sufficient water for good coverage. Limit applications to 3 per crop season regardless of rate used. Allow at least 10 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

CRANBERRIES: (21)

Cranberry fruitworm, Sparganothis sulfureana, Tipworm - 2 to 4 pints.

Fireworms - 4 pints.

Apply specified dosage per acre by air using sufficient water for good coverage. For application by irrigation systems: Apply

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specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Limit applications to 3 per crop season regardless of rate used. Allow at least 14 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

CHERRIES: (15)

Eye-spotted bud moth, Forbes scale, Fruit Flies, Fruit tree leaf roller, Lesser peach tree borer, Mites, Plum curculio, San Jose scale - 3 to 4 pints.

Cherry leaf miner, Mineola moth - 3 pints.

Apply specified dosage with aerial or ground equipment in sufficient water for complete coverage. Limit applications to 6 per crop season regardless of rate used. Allow at least 7 days between applications. Repeat applications made at less than 14-day intervals are considered early entry activities. Appropriate applicator and early entry PPE must be worn.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

CITRUS FRUITS: (30)

Aphids, Black scale, Brown soft scale, Chaff scale, Citricola scale, Citrus mealybug, Citrus rust mite, Citrus thrips, Cottony-cushion scale, European brown scale, Florida red scale, Fruit tree leaf rollers, Fuller rose beetle, Glover scale, Orange tortrix, Purple scale, Snow scale, Western tussock moth, Whiteflies - 5 to 8 pints.

California red scale, Texas citrus mite, Yellow scale - 8 pints.

Apply specified dosage per acre with aerial or ground equipment using sufficient water to ensure complete coverage. Limit application to 2 per crop season regardless of rate used. Repeat applications made at less than 30-day intervals are considered early entry activities. Appropriate applicator and early entry PPE must be worn.

The REI is 2 days or 30 days depending on activity. Refer to Agricultural Use Requirements section for details.

GRAPES: (21)

Grape berry moth, Grape cane girdlers, Grape leaf skeletonizer, Grape mealybug, Leafhoppers, Mites, Red-banded leaf roller, Thrips - 3 to 4 pints.

Apply specified dosage with aerial or ground equipment using sufficient water to ensure full coverage. Limit applications to 3 per crop season regardless of rate used. Allow at least 14 days between applications. Repeat applications made at less than 21-day intervals are considered early entry activities. Appropriate applicator and early entry PPE must be worn.

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The REI is 2 days or 21 days depending on activity. Refer to Agricultural Use Requirements section for details.

STRAWBERRIES: (5)

Aphids, Meadow spittlebug, Oblique-banded leaf roller, Obscure root weevil, Omnivorous leaf tier, Pea leaf weevil, Small black (grass) weevil, Strawberry leaf rollers, Whitefly - 2 pints.

Apply specified dosage with aerial or ground equipment using sufficient water to ensure full coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Limit applications to 4 per crop season regardless of rate used. Allow at least 5 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

NUTS

NOTE: Pre-Harvest Interval days indicated in () after each use.

ALMONDS: (28)

Navel orangeworm, Peach twig borer - 6 to 8 pints.

Apply specified dosage with aerial or ground equipment using sufficient water to ensure full coverage. Limit applications to 2 per crop season regardless of rate used. Allow at least 30 days between applications. Do not apply after husks split.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

FILBERTS (Pacific Northwest only): (30)

Apple mealybug, Filbert aphid, Filbert leaf roller, Filbertworm - 6 to 8 pints.

Apply specified dosage with aerial or ground equipment using sufficient water to ensure full coverage. Limit applications to 3 per crop season regardless of rate used. Allow at least 14 days between applications. Do not graze livestock in treated groves for 21 days after treatment.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

PECANS: (45)

Aphids, Fall webworm, Hickory shuckworm, Leafminers, May beetles, Mites, Pecan casebearer, Southern green stink bug, Spittlebug, Twig girdlers, Walnut Caterpillar - 6 to 8 pints.

Apply specified dosage with aerial or ground equipment using sufficient water to ensure full coverage. Limit applications to 3 per crop season regardless of rate used. Allow at least 7 days

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between applications. Repeat applications made at less than a 14 day interval are considered early entry activities. Appropriate applicator and early entry PPE must be worn. Do not graze livestock in treated groves for 21 days after treatment.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

WALNUTS: (21)

Codling moth, Filbertworm, Navel orangeworm, Walnut husk fly, Red-humped caterpillar - 6 to 8 pints.

Apply specified dosage with aerial or ground equipment using sufficient water to ensure full coverage. Limit applications to 3 per crop season regardless of rate used. Allow at least 14 days between applications. Do not graze livestock in treated groves for 21 days after treatment.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

VEGETABLES

NOTE: Pre-Harvest Interval days indicated in () after each use.

BEANS, SNAP: (7)

Leaf rollers, Mites - 1 to 2 pints.

Aphids, Bean leaf beetle, Green cloverworm, Leafhoppers, Leafminers, Stink bugs, Velvet bean caterpillar - 1 1/2 to 2 pints. Mexican bean beetle, Spotted cucumber beetle, Striped cucumber beetle, Tarnished plant bug, Western-striped-cucumber beetle - 2 pints.

Apply specified dosage per acre by air or ground equipment, in sufficient water to give complete coverage, but not less than 1 gallon per acre. Limit applications to 5 per crop season regardless of rate used. Allow at least 7 days between applications. Do not feed or ensile treated forage.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

BROCCOLI: (15)

BRUSSELS SPROUTS: (7)

CABBAGE (includes tight heading varieties of Chinese cabbage): (21)

CAULIFLOWER: (15)

Aphids, Cabbage looper, Diamondback moth, Imported cabbageworm - 2 to 3 pints.

Apply specified dosage per acre in sufficient water for complete coverage, but not less than 1 gallon per acre. Limit applications to 4 per crop season regardless of rate used. Allow at least 7 days between applications.

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Cabbage maggot - 1/2 pint.

Mix specified dosage in 50 gallons of water. Apply 4 to 6 ounces of this emulsion per plant immediately after transplanting.

Cabbage maggot (Transplant fields in California only) - 3 pints.

Apply specified dosage in 300 to 400 gallons of water per acre as a soil drench in the rows when damage first appears. Additional applications may be necessary.

Cabbage maggot (Direct-seeded fields in California only) - 3 pints.

Apply specified dosage per acre in sufficient water for uniform distribution. Mix in the 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 upon time of year and maggot population.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

CELERY: (14)

Aphids, Leaf miners, Leafhoppers, Spittlebugs, Tarnished plant bug - 2 pints.

Apply specified dosage per acre by air or ground equipment in sufficient water to give complete coverage, but not less than 1 gallon per acre. Limit applications to 4 per crop season regardless of rate used. Allow at least 5 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

CUCUMBERS: (4)

Spotted cucumber beetle, Striped cucumber beetle, Western-striped cucumber beetle - 2 pints.

Apply specified dosage per acre by air or ground equipment, in sufficient water for complete coverage, but not less than 1 gallon per acre. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Limit applications to 3 per crop season regardless of rate used. Allow at least 7 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

EGGPLANT: (21)

Leaf miners - 1 1/2 to 2 pints.

European corn borer, Flea beetles - 2 pints.

Apply specified dosage per acre by air or ground equipment, in sufficient water to give complete coverage, but not less than 1 gallon per acre. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the

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CHEMIGATION section of this label. Limit applications to 3 per crop season regardless of rate used. Allow at least 7 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

MELONS (Honeydew melons, Muskmelons, Cantaloupe, Watermelons, Casabas, Persian melon, Winter melons): (7)
Leafhoppers, Leaf miners - 1 1/2 to 2 pints.
Rindworms, Spotted cucumber beetle, Striped cucumber beetle, Western-striped cucumber beetle - 2 pints.

Apply specified dosage per acre by air or ground equipment, in sufficient water to give complete coverage, but not less than 1 gallon per acre. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Limit applications to 3 per crop season regardless of rate used. Allow at least 5 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

ONIONS (Green): (10)

ONIONS (Dry): (28)

Thrips - 2 to 3 pints.

Apply specified dosage per acre by air or ground equipment, in sufficient water to give complete coverage, but not less than 1 gallon per acre. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Limit applications to 3 per crop season regardless of rate used. Allow at least 7 days between applications for dry bulb onions and 10 days for green onions.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

PEPPERS: (7)

Leaf miners - 1 1/2 to 2 pints.

European corn borer, Flea beetles - 2 pints.

Apply specified dosage per acre by air or ground equipment, in sufficient water to give complete coverage, but not less than 1 gallon per acre. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Limit application to 3 per crop season regardless of rate used. Allow at least 7 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

POTATOES: (7)

Colorado potato beetle - 1 1/2 pint.
Banded cucumber beetle, Leaf miners - 1 1/2 to 2 pints.
European Corn borer, Flea beetle, Aphids, Leafhoppers,
Spittlebugs, Tarnished plant bug - 2 to 3 pints.
Tuberworm - 2 1/4 to 3 pints.

Apply specified dosage per acre by air or ground equipment, in sufficient water for complete coverage, but not less than 1 gallon per acre. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Limit application to 3 per crop season regardless of rate used. Allow at least 7 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

SPINACH: (14)

Aphids, Leaf miners, Mites - 1 1/2 to 2 pints.
Apply specified dosage per acre by air or ground equipment, in sufficient water for complete coverage, but not less than 1 gallon per acre. Limit application to 3 per crop season regardless of rate used. Allow at least 7 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to Agricultural Use Requirements section for details.

TOMATOES: (4/14)

Colorado potato beetle - 1 1/2 pint.
Banded cucumber beetle, Drosophila, Green stink bug, Leaf miners,
Whitefly - 1 1/2 to 2 pints.
Aphids, European corn borer, Flea beetles, Grasshoppers,
Leafhoppers, Thrips - 2 to 3 pints.
Tuberworm - 2 1/4 to 3 pints.

Corn earworm, Fruitworm, Hornworm, Pinworm, Yellow-striped armyworm - 3 to 6 pints.
Apply specified dosage per acre by air or ground equipment, in sufficient water for complete coverage, but not less than 1 gallon per acre. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. The high rates should be used where heavy infestations of late-instar lepidopterous larvae (large worms) and pinworms are present. Rates of 3 pints per acre or less may be applied up to 4 days prior to harvest. Rates above 3 pints per acre require an interval of 14 days between application and harvest. Limit applications to 4 per crop season regardless of rate used. Allow at least 7 days between applications.

The REI is 2 days or 4 days depending upon activity. Refer to

Agricultural Use Requirements section for details.

SOUTHERN PINE SEED ORCHARDS:

Coneworm Seedworm (See Remarks). May be applied through aerial application only at a maximum rate of 3 quarts per acre with no more than 3 applications per year. Apply first application within 30 days following conelet closure, followed by 1 to 2 applications (at least 30 days apart. Thorough coverage of cones is necessary for maximum control. Apply in not less than one gallon of water per acre.

Do not apply more than 9 quarts per acre per acre per season.

*This formulation may cause spotting of automobile finishes if prolonged exposure is permitted. Do not spray directly over automobiles. If accidental exposure does occur, automobile should be washed immediately.

The REI is 2 days or 14 days depending on activity. Refer to Agricultural Use Requirements section for details.

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