



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

JAN 6 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Morris Gaskins  
MICRO-FLO CO.  
P.O. Box 5948  
Lakeland, FL 33807

Subject: Label Amendment Submission of 06/04/93 in Response to PR Notice 93-7  
EPA Reg. No. 51036-76  
AZINPHOSMETHYL 2 EC

**IMPORTANT NOTICE:** This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**SERIOUS ERROR(S) ON SUBMITTED LABELING:**

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

**YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING.** Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

**YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.**



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contains at least 50% recycled fiber

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Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director  
Compliance Division, (7203)  
Worker Protection Notification  
Office of Compliance Monitoring  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

**IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.**

**WHAT THIS ACCEPTANCE MEANS:**

**Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.**

**WHAT YOU NEED TO DO NEXT:**

**Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:**

- **BEFORE selling or distributing any product bearing the final printed labeling as amended**

**AND**

- **WITHIN one year from date of this acceptance.**

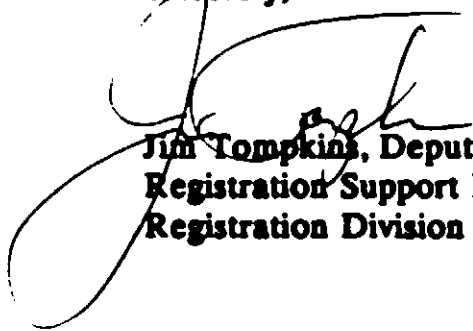
**Submit the final printed labeling via the U.S. Postal Service to:**

**Document Processing Desk (FIN-LABEL)  
 Office of Pesticide Programs (7505C)  
 U.S. Environmental Protection Agency  
 401 M Street, SW  
 Washington, D.C. 20460-0001**

**Hand or courier deliveries of final labeling may be made to:**

**Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202**

**Sincerely,**



**Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)**

**Attachment**

**cc: Office of Compliance Monitoring**

Draft labeling for WPS language in response to PR 93-7

**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**

**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.)

**STATEMENT OF PRACTICAL TREATMENT**

**ORGANOPHOSPHATE**

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger and repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person. Have victim lie down and keep quiet.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

**IF ON SKIN:** In case of contact, remove contaminated clothing and immediately wash skin with soap and water and get medical attention.

**IF IN EYES:** Flush immediately with plenty of water. Get medical attention if irritation persists.

This product is an organophosphorus ester that inhibits cholinesterase.

See Additional Precautionary Statements Elsewhere on Label

EPA Reg. No. 51036-76

EPA Est. No. 51036-GA-1

ACCEPTED  
with COMMENTS  
by EPA Letter Dated

JAN 6 1994

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

51036-76

Manufactured By  
MICRO FLO COMPANY  
P.O. BOX 5948  
LAKELAND, FL. 33807

**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.

**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.

Applicators and other handlers must wear:

1. Coveralls over short-sleeved shirt and short 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)

**Mixers and loaders must wear:**

- 1. Coveralls over short-sleeved shirt and short 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)

For exposure outdoors, use a 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 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 flaggers must be in enclosed cabs. 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

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. 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 toxic to bees and should not be applied when bees are actively visiting the area.

#### 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.

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) of 48 hours.

The REI is 72 hours 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:

Coveralls over short-sleeved shirt and short pants

Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton

Chemical-resistant footwear plus socks

Protective eyewear

Chemical-resistant headgear for overhead exposure

#### CHEMIGATION PROHIBITION

Do not apply this product through any type of irrigation system.

#### 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

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.

#### 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 applications.

#### 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**

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.

**FIELD CROPS**

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

**ALFALFA, 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.

**COTTON (Conventional or low-volume spray): (1)**

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 to 4 pints per acre.

Apply specified dosage per acre, by air or ground equipment, in at

least 1 gallon of water. For early-season control of bollworm and pink bollworm, use 2 to 3 pints, and for mid to late season applications, use 3 to 4 pints. Repeat as necessary. Do not graze livestock in treated areas.

**COTTON (1) (Ultra-low-volume spray): (2)**

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. Repeat application as necessary, but not within 2 days of handpicking. Cotton may be machine-harvested any time after application. Do not graze livestock in treated areas.

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

**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.

**BARLEY, OATS, RYE, WHEAT: (30)**

Cereal leaf beetle - 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. Do not apply more than once per season. Do not graze within 30 days of treatment.

**SOYBEANS: (14/45)**

Aphids, Bean leaf beetle, Green cloverworm, Leafhoppers, Leaf miners, Leaf rollers, Stink bugs, Velvet bean caterpillar - 1 1/2 to 2 pints.

Mexican bean beetle - 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. Limit applications to 5 per crop season regardless of rate used. Allow at least 7 days between applications. One or 2 applications of rates up to 2 pints per acre may be made up to 14 days of harvest. For additional applications or for use of rates above 2 pints per acre, do not apply within 45 days of harvest. Do not graze or feed treated vines to livestock.

**SUGARCANE (Conventional spray) (Florida and Texas only): (30)**

Sugarcane borer - 3 pints.

Apply specified dosage per acre by air, using a minimum of 2 gallons of water per acre. For best results, applications should be made at approximately cane-top level, and not more than 10 feet

above cane-top level. Limit applications to 5 per crop season regardless of rate used. Bagasse from sugarcane treated with Azinphosmethyl 2EC may be used for feed of cattle, goats and sheep. Consult your State Agricultural Extension Service or Experiment Station for specific use information.

**SUGARCANE (Ultra-low-volume spray) (Florida and Texas only): (30)**

Sugarcane borer - 3 pints.

Apply specified dosage per acre undiluted. Azinphosmethyl 2 EC may be used undiluted in any aerial spray equipment that has been adapted and calibrated for ultra-low-volume spraying. Planes must be equipped with accepted low-volume devices that will produce droplets within the range of 30 to 100 microns in size. For best results, applications should be made at approximately cane-top level, and not more than 10 feet above cane-top level. Limit applications to 5 per crop season regardless of rate used. Bagasse from sugarcane treated with Azinphosmethyl 2EC may be used for feed of cattle, sheep and goats. Consult your State Agricultural Extension Service or Experiment Station for specific use information.

**SUGARCANE (LOUISIANA RESTRICTIONS): (30)**

The following restrictions apply to sugarcane in Louisiana regardless of application method.

- 1) Do not apply more than 2 times per season.
- 2) Do not apply in the rain.
- 3) Do not make applications during temperature inversions. A temperature inversion is a stable atmospheric condition characterized by an increase in air temperature with increased height above the ground until at some height a "ceiling" or barrier of colder air is met.
- 4) Make applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). In Louisiana do not apply when the wind velocity exceeds 10 mph.
- 5) For applications, the spray boom must be mounted on the aircraft so as to minimize drift caused by wingtip or rotor vortices. Boom length must not exceed 75% of wing span or rotor diameter.
- 6) In Louisiana, do not apply within 100 feet of lakes, reservoirs, rivers, permanent streams, marshes or ponds, canals, estuaries and commercial fish farm ponds.
- 7) Do not apply if the soil is saturated with water.
- 8) Do not apply under conditions that favor runoff.
- 8) Allow at least 21 days between applications.

**TOBACCO: (6)**

Aphids, Grasshoppers, Tobacco hornworm, Tobacco flea beetle - 2 to 3 pints.

Tobacco budworm - 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. Treat for hornworms as soon as egg masses or worms are first found. Repeat as necessary. Prime before treating.

## FRUIT

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

**APPLES, CRAB APPLES, QUINCES (Washington, Oregon, Idaho and Utah): (7)**

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.

Apply specified dosage per acre by helicopter or fixed wing aircraft using equipment capable of applying ultra-low volume sprays. Limit applications to 4 per crop season regardless of rate used. Allow at least 7 days between applications. Only 2 of the 4 applications may be made aurally.

**APRICOTS, 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. 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 2E is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations.

**APRICOTS, 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 2E is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations.

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

timed with moth flight. For control of scale, apply when crawlers are present. Azinphosmethyl 2E is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations.

**PLUMS, PRUNES: (15)**

(West of the Rocky Mountains)

Codling Moth, Eye-spotted bud moth, Fruit tree leaf roller, Peach tree borer, Orange tortrix, Peach tree borer, Peach 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 applications to 13 1/2 pints per acre per crop season. Allow at least 10 days between applications. For control of peach borer, apply 2 or 3 sprays to trunk from ground to scaffold level, timed with moth flight. Azinphosmethyl 2E is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations. Allow 15 days between application and harvest.

**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 10 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 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 fruiting. After crop is harvested.

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. Limit applications to 3 per crop season regardless of rate used. Allow at least 14 days between applications.

**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.

**CITRUS FRUITS: (7/28)**

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 insure complete coverage. Limit application to 2 per crop season regardless of rate used. Do not pick fruit or do other work involving contact with the tree (such as pruning) within 7 days after treatment.

NOTE: Pre-harvest interval is 7 days if one application has been made. If 2 applications are made, Pre-harvest interval is 28 days.

**GRAPES: (1/10)**

Grape berry moth, Grape cane girdlers, 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 insure full coverage. Limit applications to 3 per crop season regardless of rate used. Allow at least 14 days between applications. Minimum dosage may be applied up to harvest. For maximum rate, allow at least 10 days Pre-harvest interval.

**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 insure full coverage. Limit applications to 4 per crop season regardless of rate used. Allow at least 5 days between applications.

#### NUTS

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

#### ALMONDS: (60)

Navel orangeworm, Peach twig borer - 6 to 8 pints.  
 Apply specified dosage with aerial or ground equipment using sufficient water to insure 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.

#### 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 insure 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.

#### PECANS:

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 insure full coverage. Limit applications to 3 per crop season regardless of rate used. Allow at least 7 days between applications. Do not apply after shuck split. Do not graze livestock in treated groves for 21 days after treatment.

#### WALNUTS:

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 insure full coverage. Limit applications to 3 per crop season regardless of rate used. Allow at least 14 days between applications. Do not apply after husks split. Do not graze livestock in treated groves for 21 days after treatment.

#### VEGETABLES

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

#### ARTICHOKES: (30)

Plum moth - 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. Limit applications to 3 per crop season regardless of rate used. Allow at least 14 days between applications. Do not feed or ensile treated forage.

**BEANS, SNAP: (7)**

**BEANS, DRY: (30)**

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.

**BROCCOLI: (15)**

**BRUSSELS SPROUTS: (7)**

**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.

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.

**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.

**BLACKEYED PEAS (Southern peas, Crowder peas): (7)**

Corn earworm, Cowpea curculio - 3 to 4 pints.

Leaf miners, Stink bugs - 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 applications to 4 per crop season regardless of rate used. Allow at least 7 days between applications. Do not use vines for feed or forage, nor pasture treated areas.

**CUCUMBERS: (1)**

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

**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. Limit applications to 3 per crop season regardless of rate used. Allow at least 7 days between applications.

**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. 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.

**PEPPERS: (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. Limit application to 3 per crop season regardless of rate used. Allow at least 7 days between applications.

**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. Limit application to 3 per crop season regardless of rate

used. Allow at least 7 days between applications.

**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.

**TOMATOES: (1/14)**

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. The high rates should be used where heavy infestations of late-instar lepidopterous larvae (large worms) and pin-worms are present. Rates of 3 pints per acre or less may be applied up to day of 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.

**MELONS (Honeydew melons, Muskmelons (cantaloupe), Watermelons, Other 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. Limit application to 3 per crop season regardless of rate used. Allow at least 5 days between applications.

**ORNAMENTALS**

**ORNAMENTALS, NURSERY PLANTS, FOREST AND SHADE TREES:**

Aphids, Cerococcus scale, Euonymus scale, Juniper scale, Lace bugs, Leafhoppers, Mites, Olive scale, Oystershell scale, Pulvinaria scale, Thrips - 1 1/2 to 2 pints.

Brown soft scale, Putnam scale - 4 pints.

European elm scale, Black pine leaf scale - 3 to 4 pints.

Apply specified dosage per 100 gallons of water (2 teaspoonfuls 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 1 tablespoonful per gallon. Repeat as

necessary.

Cone midge, Cone moth - 8 to 16 pints.

Apply specified dosage per 100 gallons of water. Time applications to coincide with moth flight when cones are open for pollination. Thorough coverage of cones is necessary for maximum control. Repeat as necessary.

European pine shoot moth, Nantucket pine tip moth - 1 1/2 to 3 pints.

Apply specified dosage per acre in sufficient water for good coverage. Time applications to coincide with moth flights. For application to individual trees, use 1 tablespoonful of Azinphosmethyl 2EC per gallon of water. Injury to Hawthorn or American linden may occur under some conditions. Do not allow children or pets on treated area until material has been washed into the soil and treated area is dry.

#### SOUTHERN PINE SEED ORCHARDS:

Coneworm Seedworm (See Remarks). Use 6 pints per 100 gallons of water. (0.2% dilution) as a full coverage spray\*. Use 3 pints per 10 gallons of water (1% dilution) for low volume sprayers. Apply first application within 30 days following conelet closure, followed by 3 to 5 applications (at least 30 days apart). Apply approximately 5 to 10 gallons of the 0.2% dilution with high volume sprayers or approximately 1 to 2 gallons of the 1% dilution with low volume sprayers per tree. Thorough coverage of cones is necessary for maximum control. This concentration is calculated for conventional hydraulic-type sprayer. When lower volumes of spray are applied per acre with concentrate sprayers, increase the concentration of Azinphosmethyl 2EC in the spray mixture in order to apply amount of Azinphosmethyl 2EC per acre equivalent to a full coverage spray. Where conditions dictate an air application, apply dosage per acre equivalent to a full coverage ground spray in not less than one gallon of water per acre.

\*This formulation, when used undiluted, 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.