

PM 19 10163-139

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

JAN 28 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

BETHANY G. HULCY
GOWAN COMPANY
P.O. BOX 5569
YUMA, AZ. 85366

Subject: Label Amendment Submission of 09/22/93 In Response to PR Notice 93-7
EPA Reg. No. 10163-139
GOWAN AZINPHOS-M 35W

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.



Recycled/Recyclable
Printed with SoyCanada Ink on paper that
contains at least 50% recycled fiber

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.

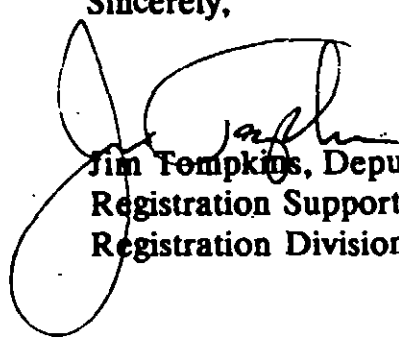
Submit the final printed labeling via the U.S. Postal Service to:

**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

5 9 20

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Bethany G Hulcy
GOWAN CO
BOX 5569
YUMA AZ 85366

Comment for: EPA Reg Nr.10163-139
GOWAN AZINPHOS-M 35W

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

The eyewear requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Protective Eyewear". The exact location is shown in Section A and B on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Add the following statement to the "Personal Protective Equipment" section on your proposed labeling immediately following the statement requiring an enclosed cab: "The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240(d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS." The exact location is shown in Section A of Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

The eyewear requirement for early entry in the Agricultural Use Requirements Box on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Protective eyewear". The exact location is shown in Sections F and G on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Correct the typographical errors circled on your proposed label.

6 7 20

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 Applicator's Certification.

GOWAN AZINPHOS-M 35 W

ACTIVE INGREDIENT:

O,O-dimethyl S-((4-oxo-1,2,3-benzotriazin-3 (4-H)-yl) methyl) phosphorodithioate.....35.0%

INERT INGREDIENTS65.0%

TOTAL 100.0%

ACCEPTED
with COMMENTS
in EPA Letter Dated

KEEP OUT OF REACH OF CHILDREN

JUN 28 1994

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

DANGER



POISON

PELIGRO

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

STATEMENT OF PRACTICAL TREATMENT

Organophosphate Insecticide

IF SWALLOWED- Call of physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not give anything by mouth to an unconscious person.

IF INHALED- Remove victim to fresh air. Apply artificial respiration if indicated.

IF IN EYES- Flush eyes with plenty of clear water for at least 15 minutes, and get medical attention if irritation persists.

IF ON SKIN, ~~Remove contaminated clothing and~~ wash skin immediately with soap and warm water.

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 conduction with atropine. Azinphos-methyl inhibits cholinesterase, resulting in stimulation of the central nervous system, the parasympathetic nervous system and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop is 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.

Net Weight _____ Pounds

Contains _____ 1 3/8 pound water soluble packets

Gowan

EPA Reg. No. 10163-139
EPA Est. No. 10163-AZ-1

Gowan Company
P.O. Box 5569
Yuma, AZ 85366-5569

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER-POISON**

Fatal if swallowed, inhaled or absorbed through the skin. Do not breathe vapor, dust or spray mist. Do not get in eyes, on skin, or on clothing. Keep out of reach of children and domestic animals. Do not contaminate feed or foodstuffs. Keep all unprotected persons, children, livestock, and pets away from treated areas or where there is a danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way STOP work and get help right away. See First Aid section of the label. For questions regarding further treatment, or information about the product, call the National Pesticide Telecommunications Network at 1-800-858-7378.

PERSONAL PROTECTIVE CLOTHING (PPE)

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

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

Mixers and Loaders must wear:

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements: 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.

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

Symptoms of Poisoning: A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea. **Treatment:** In case of poisoning, call a physician immediately. (See STATEMENT OF PRACTICAL TREATMENT section also.)

Handwritten notes:
Should be placed in the...

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 pesticide is extremely toxic to fish and wildlife. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

This product is highly toxic to bees exposed to direct treatment or residues on crops or blooming weeds. Do not apply this product or allow it to drift to crops or weeds when bees are actively visiting the treatment area. Time applications to provide the maximum possible interval between treatment and the next period of bee activity. Protective information may be obtained from your Cooperative Agricultural Extension Service.

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 intervals. 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). Each 48-hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year. Exception: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

STORAGE AND DISPOSAL

Store in a cool, dry place below 120° F. Do not store next to herbicides.

DO NOT CONTAMINATE water, food or feed by storage or disposal. Open dumping is prohibited.

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: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

SPRAYING

Prepare water dilutions appropriate for type of equipment used as described above and in DILUTION DIRECTIONS. When applying, work to windward.

When low volumes of spray are applied, complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service for specific use information in your area.

DILUTION DIRECTIONS

The rate required for thorough, uniform coverage varies with plant growth at time of application. Except as specified for certain uses, the following rates are therefore intended to cover a broad range of applications.

Dilute Application

Field and Row Crops: Apply specified rate in 20 to 75 gallons of water per acre.

Trees and Vines: Apply specified rate in 100 to 800 gallons of water per acre. For citrus, use up to 2,000 gallons of water per acre.

Concentrate Application

Ground Application: Apply specified rate in not less than 5 gallons of water per acre.

Trees and Vines: Apply specified rate in 20 to 100 gallons of water per acre. Special concentrate equipment is required for these applications.

Air Application

Field and Row Crops: Apply specified rate in a minimum of 3 gallons of water per acre.

Trees and Vines: Apply specified rate in a minimum of 10 gallons of water per acre.

ROTATIONAL CROPS

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

GENERAL USE PRECAUTIONS AND RESTRICTIONS

Do not use for any food or forage crop not listed on this labeling.

Use only according to label directions. Application at rates above those shown may result in illegal crop residues.

Gowan Azinphos-M 35 WP is compatible with dormant and summer oils; these may be added to sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime sulfur treatment.

DO NOT GRAZE LIVESTOCK IN TREATED ORCHARDS OR GROVES FOR 21 DAYS AFTER TREATMENT. Where specific grazing restrictions are given for a crop listing, follow these specific directions.

Do not treat food crops grown in the greenhouse.

Rates are given in pounds of Gowan Azinphos-M 35 W per acre (lbs./A) (except for certain soil drench applications and ornamental applications).

Applications should be made when pests appear and repeated as necessary.

However, where the recommendations list a maximum number of treatments per season, applications must not exceed this number.

CHEMIGATION

Gowan Azinphos-M 35 W may be applied through recommended types of irrigation systems to many crops. The REMARKS section for each crop list the types of applications allowed. If application through irrigation systems is not listed in the REMARKS section for a crop, Gowan Azinphos-M 35 W may not be applied to that crop through irrigation systems.

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.

Types of Irrigation Systems

Apply Gowan Azinphos-M 35 W only through sprinkler, including center pivot, lateral move, side roll, overhead solid set, or low pressure sprinkler irrigation systems. Do not apply GUTHION 35% Wettable Powder through any other types of irrigation systems.

GENERAL DIRECTIONS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS**Uniform Water Distribution and System Calibration**

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

The system must be calibrated to uniformly apply the rates specified for chemigation application for specific crops. If you have questions about calibration, you should contact State Extension Service specialist, equipment manufacturers or other experts.

Chemigation Monitoring

A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Drift

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

Required System Safety Devices

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

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

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point when pesticide distribution is adversely affected..

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Using Water from Public Water Systems

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

DO NOT APPLY Gowan Azinphos-M 35 W THROUGH ANY IRRIGATION SYSTEM SUPPLIED BY A PUBLIC WATER SYSTEM UNLESS the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between 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. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

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

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

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

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

Posting Requirements

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

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive areas. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

These signs are in addition to any sign posted to comply with the Worker Protection Standard.

Compatibility
When mixing with other chemicals refer to Compatibility section elsewhere on label.

Agitation

For application of Gowan Azinphos-M 35W, a chemical supply tank is necessary for premixing. For application of Gowan Azinphos-M 35W alone or in combination with liquid fertilizer or other chemicals, constant strong mechanical or hydraulic agitation must be maintained in the chemical supply tank during the entire period of application.

Chemical Supply Tank Dilution

You must determine the required amounts of Gowan Azinphos-M 35 W to mix in the tank

The amount of Gowan Azinphos-M 35 W needed equals the number of pounds of Gowan Azinphos-M 35 W to be applied per acre multiplied by the number of acres to be chemigated.

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

For example, if you want to apply 2 pounds of Gowan Azinphos-M 35 W per acre to 130 acres in 20 hours and your injector pump delivers 15 gallons per hour, you need: 2 pounds Gowan Azinphos-M 35 W per acre X 130 acres = 260 pounds of Gowan Azinphos-M 35 W. And, you need: 15 gallons per hour X 20 hours = 300 gallons of suspension = 300 gallons of water.

Cleaning the Chemical Injection System

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

Flushing the Irrigation System

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

Equipment Area Contamination

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

Center-Pivot and Automatic-Move Linear Systems

Inject the specified dosage per acre continuously for one complete revolution or move of the system. DO NOT USE END GUNS. For a foliar application, the system should be run at maximum speed.

Solid Set and Manually Controlled Linear Systems

For foliar application, injection should be during the last 30 to 60 minutes of regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation. DO NOT USE END GUNS.

RECOMMENDED APPLICATIONS

CROP	PEST	Pounds Gowan Azinphos-M 35 W	REMARKS
FIELD CROPS Alfalfa Birdfoot trefoil (East of the Mississippi River only) Clover <i>REI 48 hours</i>	Leathoppers	1/4 to 1/2	Apply specified dosage per acre by air or ground equipment. Use at least 10 gallons of water per acre with ground equipment and at least 1 gallon of water per acre for aerial application. 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. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. Only one application per cutting may be made regardless of rate, formulation or method of application used. Do not apply within 14 days of harvest at the rates of 1/4 to 1/2 pounds per acre or within 16 days of harvest at the rate of 1/2 pounds per acre.
	Alfalfa weevil Egyptian alfalfa weevil	1/4 to 1/2	
	Alfalfa plant bug Fleahopper Grasshoppers Lygus bugs Spittlebug	1/2	
Barley Oats Rye Wheat <i>REI 48 hours</i>	Cereal leaf beetle	1 to 1 1/2	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than once per season. Do not harvest for food, feed, forage or graze within 30 days of treatment.
Soybeans <i>REI 48 hours</i>	Aphids Bean leaf beetle Green cloverworm Leathoppers Leaf miners Leaf rollers Stink bugs Velvet bean caterpillar	1 to 1 1/2	Apply specified dosage per acre in sufficient water to give complete coverage. Do not apply within 45 days of harvest. Do not graze or feed treated vines to livestock. Do not exceed more than 3 applications per season.
	Mexican bean beetle	1 1/2 to 2 1/2	

BEST AVAILABLE COPY

CROP	PEST	Pounds Gowan Azinphos-M 35 W	REMARKS																						
FRUIT	NOTE: It is suggested that when treating fruit during the bloom period, bee keepers should be warned well in advance to remove hives a safe distance from orchards to be treated. Do not graze livestock in treated groves or orchards for 21 days after treatment.																								
Apples Crab apples Pears <i>REI 48 hours</i>	<table border="0"> <tr> <td>Aphids*</td> <td>Mealybug*</td> </tr> <tr> <td>Apple maggot</td> <td>Orange tortrix</td> </tr> <tr> <td>Codling moth</td> <td>Pear midge</td> </tr> <tr> <td>European apple sawfly</td> <td>Plum curculio</td> </tr> <tr> <td>Eye-spotted bud moth</td> <td>Putnam scale</td> </tr> <tr> <td>Forbes scale</td> <td>Redbanded leaf roller</td> </tr> <tr> <td>Fruit tree leaf roller</td> <td>San Jose scale*</td> </tr> <tr> <td>Green fruitworm*</td> <td>Stink bug</td> </tr> <tr> <td>Leathoppers*</td> <td>Tarnished plant bug*</td> </tr> </table>	Aphids*	Mealybug*	Apple maggot	Orange tortrix	Codling moth	Pear midge	European apple sawfly	Plum curculio	Eye-spotted bud moth	Putnam scale	Forbes scale	Redbanded leaf roller	Fruit tree leaf roller	San Jose scale*	Green fruitworm*	Stink bug	Leathoppers*	Tarnished plant bug*	2 1/4 to 4 1/2 (1 1/4 to 1 1/2 pounds per 100 gallons)	Apply specified dosage per acre by air or ground equipment in sufficient water for good coverage. Up to 17 1/2 pounds Gowan Azinphos-M may be applied per crop season. Allow at least 7 days between applications and 7 days between last application and harvest. Gowan Azinphos-M is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations.				
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Cherries <i>REI 48 hours</i>	<table border="0"> <tr> <td>Eye-spotted bud moth</td> <td>Cherry leaf miner</td> </tr> <tr> <td>Forbes scale</td> <td>Mineola moth</td> </tr> <tr> <td>Fruit flies</td> <td>Lesser peach tree borer</td> </tr> <tr> <td>Fruit tree leaf roller</td> <td>Plum curculio</td> </tr> <tr> <td></td> <td>San Jose scale*</td> </tr> </table>	Eye-spotted bud moth	Cherry leaf miner	Forbes scale	Mineola moth	Fruit flies	Lesser peach tree borer	Fruit tree leaf roller	Plum curculio		San Jose scale*	2 1/2 (1 1/4 pound per 100 gallons)	Apply specified dosage per acre as a full coverage spray. Up to 8 1/2 pounds of Gowan Azinphos-M may be applied per acre per crop season. Allow at least 14 days between applications and 15 days between last application and harvest. California: Apply post-harvest only.												
Eye-spotted bud moth	Cherry leaf miner																								
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Apricots Nectarines Peaches (Eastern U.S.) <i>REI 48 hours</i>	<table border="0"> <tr> <td>Aphids*</td> <td><i>Platynota flavedana</i></td> </tr> <tr> <td>Cottony peach scale</td> <td>leaf roller</td> </tr> <tr> <td>European fruit lecanium scale</td> <td>Plum curculio</td> </tr> <tr> <td>Forbes scale</td> <td>Redbanded leaf roller</td> </tr> <tr> <td>Lesser peach tree borer</td> <td>San Jose scale*</td> </tr> <tr> <td>Oriental fruit moth</td> <td>Stink bug</td> </tr> <tr> <td>Peach tree borer</td> <td>Thrips</td> </tr> <tr> <td>Peach twig borer</td> <td>Tarnished plant bug</td> </tr> <tr> <td></td> <td>Terrapin scale</td> </tr> <tr> <td></td> <td>Walnut scale</td> </tr> <tr> <td></td> <td>White peach scale</td> </tr> </table>	Aphids*	<i>Platynota flavedana</i>	Cottony peach scale	leaf roller	European fruit lecanium scale	Plum curculio	Forbes scale	Redbanded leaf roller	Lesser peach tree borer	San Jose scale*	Oriental fruit moth	Stink bug	Peach tree borer	Thrips	Peach twig borer	Tarnished plant bug		Terrapin scale		Walnut scale		White peach scale	2 1/2 to 3 1/2 (1 1/4 to 1 1/2 pound per 100 gallons)	Apply specified dosage per acre as a full coverage spray. Allow at least 14 days between applications. A total of 9 1/2 pounds per acre per crop season may be applied to nectarines. A total of 12 1/2 pounds per acre per crop season may be applied to apricots and peaches. Allow at least 21 days between last application and harvest. 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. Gowan Azinphos-M is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations.
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Apricots Nectarines Peaches (West of the Rocky Mountains) <i>REI 48 hours</i>	<table border="0"> <tr> <td>Lesser peach tree borer</td> <td>Plum curculio</td> </tr> <tr> <td>Oriental fruit moth</td> <td>Redbanded leaf roller</td> </tr> <tr> <td>Peach twig borer</td> <td>Stink bug</td> </tr> <tr> <td>Peach tree borer</td> <td>Thrips</td> </tr> <tr> <td><i>Platynota flavedana</i></td> <td>Tarnished plant bug</td> </tr> <tr> <td>leaf roller</td> <td></td> </tr> </table>	Lesser peach tree borer	Plum curculio	Oriental fruit moth	Redbanded leaf roller	Peach twig borer	Stink bug	Peach tree borer	Thrips	<i>Platynota flavedana</i>	Tarnished plant bug	leaf roller		4 1/2 to 5 1/2	Apply specified dosage per acre. Allow at least 14 days between applications. A total of 9 1/2 pounds per acre per crop season may be applied to nectarines. A total of 12 1/2 pounds per acre per crop season may be applied to apricots and peaches. Allow at least 21 days between last application and harvest. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight.										
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*In some areas, these species may have developed resistance to organophosphate insecticides. Azinphos-M insecticide used alone may not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.

CROP	PEST	Pounds Gallon Azinphos-M 35 W	REMARKS	
FRUIT (cont'd) Plums Prunes (Eastern U.S.) <i>REI 48 hours</i>	Aphids* Codling moth Eyespotted bug moth Forbes scale Fruit tree leaf roller Lesser peach tree borer Orange tortrix	Peach tree borer Peach twig borer Plum curculio Redbanded leaf roller San Jose scale* Stink bug Tarnished plant bug* Tussock moth	2 1/2 to 3 1/4 (1 1/4 to 1/2 pound per 100 gallons)	Apply specified dosage per acre as a full coverage spray. A total of 9 1/4 pounds per acre per crop season may be applied to plums and prunes. Allow at least 10 days between applications Allow at least 15 days between last application and harvest. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight.
	American plum borer		4 1/4	For control of scale, apply when crawlers are present. <i>Ga. Azinphos-M 85W</i> is compatible with dormant and summer oils which may be added to prune sprays in accordance with local recommendations.
Plums Prunes (West of the Rocky Mountains) <i>REI 48 hours</i>	Codling moth Eye-spotted bug moth Fruit tree leaf roller Lesser peach tree borer Orange tortrix Peach tree borer	Peach twig borer Plum curculio Redbanded leaf roller Stink bug Tarnished plant bug* Tussock moth	2 1/4 to 5 1/4	Apply specified dosage per acre. A total of 9 1/4 pounds per acre per crop season may be applied to plums and prunes. Allow at least 10 days between applications. Allow at least 15 days between last application and harvest. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight.
	American plum borer		4 1/4 to 5 1/4	
Blackberries Boysenberries Loganberries Raspberries <i>REI 48 hours</i>	Leafhoppers	Leaf rollers	1/2	Apply specified dosage per acre to foliage using approximately 200 gallons of water for good coverage. Do not apply more than twice per season nor within 14 days of harvest.
	Leaf miners		1/2	
	Aphids		1/2 to 1 1/4	
	Obscure root weevil		1 1/4	For control of root weevils prior to harvest apply specified dosage per acre to lower portion of canes and to the soil beneath the plants using approximately 200 gallons of water. Do not apply more than twice per season. Do not make applications within 3 days of harvest at rates up to 2 1/4 pounds per acre.
	Obscure root weevil		1 1/4	
Blueberries (Eastern and North Central States only) <i>REI 48 hours</i>	Blueberry maggot Fruitworms Lecanium scale Plum curculio		1 1/4 to 2 1/4	Apply specified dosage per acre with aerial or ground equipment using sufficient water for good coverage. A total of 3 applications may be made per crop season regardless of rate or formulation used Allow at least 10 days between applications and at least 7 days between last application and harvest.

*In some areas, these species may have developed resistance to organophosphate insecticides. *Azinphos-M* insecticide used alone may not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.

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CROP	PEST	Pounds per Acre 35 W	REMARKS																		
FRUIT (cont'd) Cranberries <i>REI 48 hours</i>	Cranberry fruitworm <i>Sparganothis sulfureana</i> Tipworm	1 1/4 to 2 1/4	Apply specified dosage per acre by air using sufficient water for good coverage. For application by irrigation systems. Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications and at least 21 days between last application and harvest.																		
	Fireworms	2 1/4																			
Citrus Fruits <i>REI 7 days</i>	<table border="0"> <tr> <td>Aphids*</td> <td>Florida red scale</td> </tr> <tr> <td>Black scale</td> <td>Fruit tree leaf roller</td> </tr> <tr> <td>Brown soft scale</td> <td>Fuller rose beetle</td> </tr> <tr> <td>Chaff scale</td> <td>Glover scale</td> </tr> <tr> <td>Citricola scale</td> <td>Orange tortrix</td> </tr> <tr> <td>Citrus mealybug</td> <td>Purple scale</td> </tr> <tr> <td>Citrus thrips</td> <td>Snow scale</td> </tr> <tr> <td>Cottony-cushion scale</td> <td>Western tussock moth</td> </tr> <tr> <td>European brown snail</td> <td>Whitelies</td> </tr> </table>	Aphids*	Florida red scale	Black scale	Fruit tree leaf roller	Brown soft scale	Fuller rose beetle	Chaff scale	Glover scale	Citricola scale	Orange tortrix	Citrus mealybug	Purple scale	Citrus thrips	Snow scale	Cottony-cushion scale	Western tussock moth	European brown snail	Whitelies	5 1/4 to 8 1/2	Apply specified dosage per acre as a full coverage spray. A single application per year may be applied up to within 7 days of harvest. Where 2 applications are required, allow at least 28 days between the second application and harvest. A total of 2 applications may be applied per fruit year regardless of rate or formulation used.
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Grapes <i>REI 48 hours</i>	<table border="0"> <tr> <td>Grape berry moth</td> <td>Redbanded leaf roller</td> </tr> <tr> <td>Grape cane girdlers</td> <td>Thrips</td> </tr> <tr> <td>Grape mealybug</td> <td>Grape leaf skeletonizer</td> </tr> <tr> <td>Leafhoppers*</td> <td></td> </tr> </table>	Grape berry moth	Redbanded leaf roller	Grape cane girdlers	Thrips	Grape mealybug	Grape leaf skeletonizer	Leafhoppers*		2 1/2 to 2 3/4	Apply specified dosage per acre as a full coverage spray. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications. Minimum dosage specified may be applied up to harvest. With higher rates allow at least 10 days between last application and harvest.										
Grape berry moth	Redbanded leaf roller																				
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NUTS Almonds <i>REI 48 hours</i>	Peach twig borer Navel orangeworm	4 1/4 to 5 1/4	<p>Apply specified dosage per acre. A total of 2 applications may be made per crop season regardless of rate or formulation used. Allow at least 30 days between applications and at least 60 days between last application and harvest. Do not apply after husks split.</p> <p>CALIFORNIA ONLY: Apply specified dosage per acre by concentrate sprayer or as a full coverage spray using not more than 400 gallons of finished spray per acre. If conditions dictate an aerial spray, apply specified dosage by aircraft in not less than 20 gallons of water per acre. Application is limited to one dormant spray and/or two post-bloom sprays per season. Last application may be made up to 28 days before harvest. Allow at least 120 days between the dormant and the first post-bloom spray and at least 28 days between the post-bloom sprays. Do not graze livestock in treated groves for 21 days after treatment.</p>																		

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CROP	PEST	Pounds Gowan Azinphos-M 35% W	REMARKS
VEGETABLES (cont'd) Broccoli Brussels Sprouts Cabbage (Includes tight heading varieties of Chinese cabbage) Cauliflower REI 48 hours	Aphids Cabbage looper Diamondback moth Imported cabbageworm	1 1/4 to 2%	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 7 days of harvest for Brussels sprouts, 15 days of harvest for broccoli and cauliflower, nor within 21 days of harvest for cabbage. Do not exceed more than 3 applications per season.
	Cabbage maggot	1/2 to 1/2	Mix specified dosage in 50 gallons of water. Apply 4 to 6 ounces of this emulsion per plant at or immediately after transplanting.
	Cabbage maggot (Direct seeded fields in California only)	2%	Apply specified dosage per acre in sufficient water for uniform distribution. Mix in upper 2 inches of soil prior to seeding or spray in the seed row at planting time. Usually 2 additional sprays are necessary during the growing season, depending on time of year and maggot population. Do not apply within 21 days of harvest. Do not exceed more than 3 applications per season.
	Cabbage maggot (Transplant fields in California only)	2%	Apply specified dosage in 300 to 400 gallons of water per acre as a soil drench in rows when damage first appears. Additional applications may be necessary. Do not apply within 21 days of harvest. Do not exceed more than 3 applications per season.
Blackeyed peas (Southern peas, Crowder peas) REI 48 hours	Corn earworm Cowpea curculio	2% to 2%	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than 4 times per season nor within 7 days of harvest. Do not use vines for feed or forage nor pasture treated areas.
	Leaf miners Stink bugs	1 to 1 1/4	
Celery REI 48 hours	Aphids Leaf miners Leafhoppers Spittlebug Tarnished plant bug	1 1/4	Apply specified dosage in 100 gallons of water as a full coverage spray** using not more than 200 gallons of finished spray per acre. Do not apply within 14 days of harvest. Do not exceed more than 3 applications per season.
Cucumbers REI 48 hours	Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle	1 1/4	Apply specified dosage per acre in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and at least 1 day between last application and harvest.
Eggplant REI 48 hours	Leaf miners	1 1/4 to 1 1/2	Apply specified dosage per acre in sufficient water to give complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications, and allow at least 21 days between last application and harvest.
	European corn borer Flea beetles	1 1/4	

**This concentration is calculated for conventional hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, the concentration of Gowan Azinphos-M 35 W in the spray mixture must be increased in order to apply the amount of Gowan Azinphos-M 35 W per acre equivalent to a full coverage spray

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CROP	PEST	Pounds Gowan Alyphos-M 35 W.	REMARKS
VEGETABLES (cont'd) Onions (Green and Dry) <i>REI 48 hours</i>	Thrips	1 1/4 to 2 1/4	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications for dry bulb onions. Allow at least 10 days between applications for green onions. For dry onions, allow at least 28 days between last application and harvest. For green onions, allow at least 7 days between last application and harvest.
Peppers <i>REI 48 hours</i>	Leaf miners	1 1/4 to 1 1/4	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and 7 days between last application and harvest.
	European corn borer Flea beetles	1 1/4	
Potatoes <i>REI 48 hours</i>	Colorado potato beetle	1 1/4	Apply specified dosage per acre in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and 7 days between last application and harvest. NOTE: Resistance of Colorado potato beetle has occurred in some areas. Consult your local Extension Service or GOWAN sales representative for details.
	Banded cucumber beetle Leaf miners	1 1/4 to 1 1/4	
	European corn borer Flea beetle	1 1/4 to 2 1/4	
	Leathoppers Spittlebugs Tarnished plant bug	1 1/4 to 2 1/4	
Spinach <i>REI 48 hours</i>	Aphids Leaf miners Mites	1 to 1 1/4	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 14 days of harvest. Do not exceed more than 3 applications per season.
Tomatoes <i>REI 48 hours</i>	Colorado potato beetle	1 1/4	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 4 applications may be made per crop season regardless of rate, formulation or method of application used. The high rates should be used where heavy infestations of late instar lepidopterous larvae (large worms) and pinworms are present. Allow at least 7 days between applications. Rates of 2 1/4 pounds per acre or less may be applied up to day of harvest. Rates above 2 1/4 pounds require an interval of 14 days between last application and harvest. NOTE: Resistance of Colorado potato beetle has occurred in some areas. Consult your local Extension Service or GOWAN sales representative for details.
	Banded cucumber beetle <i>Drosophila</i>	1 1/4 to 1 1/4	
	Aphids* European corn borer Flea beetles Grasshoppers Leathoppers Thrips	1 1/4 to 2 1/4	
	Tuberworm	1 1/4 to 2 1/4	
	Fruitworm Hornworm	2 1/4 to 4 1/4	
	Pinworm Yellow-striped armyworm		

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CROP	PEST	Pounds GUTHION 35% WP 35 W	REMARKS
MELONS Honeydew melons Muskmelon (cantaloupe) Watermelons Other melons REI 48 hours	Leathoppers Leaf miners	1 1/2 to 1 3/4	Apply specified dosage per acre in sufficient water to give complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 5 days between applications and at least 7 days between last application and harvest.
	Rindworms Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle	1 1/2	

ORNAMENTALS Southern Pine Seed Orchards REI 48 hours	Cane worm Seed worm	See Remarks	Use 3.25 pounds per 100 gallons of water (0.2% dilution) as a full coverage spray. Use 1.6 pounds 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. Apply no more than 6 applications per season.
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Ornamentals Nursery Plants REI 40 hours	Aphids Cercococcus scale Euonymus scale Juniper scale Lace bugs Leafhoppers	Mites Olive scale Oystershell scale Pulvinaria scale Trips	1 to 1 1/2	Apply specified dosage per 100 gallons of water (1 1/2 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 the higher rate. Repeat as necessary.
	Brown soft scale Putnam scale		2%	
	European elm scale Black pine leaf scale		2 1/2 to 2 3/4	

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This concentration is calculated for conventional, hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, increase the concentration of Guthion 35% Wettable Powder in the spray mixture in order to apply amount of Guthion 35% Wettable Powder per acre equivalent to a full coverage spray. In Southern Pine Seed Orchards 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.

CROP	PEST	Pounds GUTHION 35% WP 35 W	REMARKS
Ornamentals (cont'd) Ornamentals Nursery Plants REI 48 hours	Cone midge Cone moth	5.5 to 11	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 to 2 1/2	Apply specified dosage per acre in sufficient water for good coverage. Time applications to coincide with moth flights.
Christmas Trees REI 48 hours	Scale spp. Sawfly spp. European pine shoot moth Eastern pine shoot borer Nantucket pine tip moth	1 to 2 1/2	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. Time applications to coincide with susceptible pest development.