

66222-10

7/11/2008

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms. Christie Hitchcock  
Registration Specialist  
Makhteshim Agan of North America, Inc.  
4515 Falls of Neuse Rd., Suite 300  
Raleigh, NC 27609

JUL 11 2008

Subject: Notification(s) for Label Revisions under PRN 2007-4 and  
Primary Name Change per PRN 98-10  
Primary Brand Name to: Diazinon 50W

Dear Ms. Hitchcock:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notices (PRN) 98-10 and 2007-4 dated, June 3, 2008 for:

**EPA Registration 66222-10**

**Diazinon 50W**

The Registration Division (RD) has conducted a review of the request(s) for applicability under PRN 98-10 and PRN 2007-4 and finds that the label changes requested fall within the scope of PRN-98-10 and PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0080. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 66222-10	2. EPA Product Manager Linda Arrington	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Diazinon 50W	PM# Registration Support Branch	
5. Name and Address of Applicant (Include ZIP Code) Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Rd., Suite 300 Raleigh, NC 27609 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: <b>NOTIFICATION</b> EPA Reg. No. _____ Product Name <b>JUL 1 1 2008</b>	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification per PRN 98-10 & 2007-4: This notification is consistent with the provisions of PR Notice 98-10 & 2007-4 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make false statements to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 & 2007-4 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container
		1 lb	5

3. Location of Net Contents Information  
 Label  Container

4. Size(s) Retail Container  
5 lb

5. Location of Label Directions  
 on label

6. Manner in Which Label is Affixed to Product  
 Lithograph Paper glued Stenciled  Other Self-adhesive

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Christie Hitchcock	Title Registration Specialist	Telephone No. (Include Area Code) 919-256-9342
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**Certification**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature <i>Christie Hitchcock</i>	3. Title Registration Specialist	6. Date Application Received (Stamped)
4. Typed Name Christie Hitchcock	5. Date 06-03-08	



June 3, 2008

Document Processing Desk (NOTIF)  
Registration Division (7504P)  
OPP, USEPA  
Ariel Rios Building  
1200 Pennsylvania Ave, NW  
Washington DC 20460

Re: Diazinon 50W 66222-10  
Notification per PRN 98-10 and 2007-4

To Whom It May Concern:

We are notifying the Agency of these label updates as allowed in PR Notice 98-10 and 2007-4. The changes are summarized below:

- Primary Brand Name Change (as allowed per PRN 98-10 §II(A)) from Diazol 50W, 66222-10, to Diazinon 50W, 6622-10.
- Updated container disposal instructions per PRN 2007-4

In support of this submission, the following documents are attached:

- Application for Pesticide Registration (EPA Form 8570-1)
- One copy of final printed labeling

Please contact me at 919-256-9342 or by email at [chitchcock@manainc.com](mailto:chitchcock@manainc.com) if you have any questions regarding this submission or would like a copy of the annotated label showing the changes for your files.

Sincerely,

Christie Hitchcock  
Registration Specialist

Enclosures

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**RESTRICTED USE PESTICIDE**  
**DUE TO AVIAN AND AQUATIC 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.

# DIAZINON 50W

## A Wettable Powder Insecticide Packaged in Water Soluble Bags

For control of certain insects on fruits, vegetables, nuts, and ornamentals grown outdoors in nurseries.

<b>ACTIVE INGREDIENT:</b>	<b>% BY WT.</b>
Diazinon [0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate.....	50%
<b>INERT INGREDIENTS:</b> .....	50%
	<b>TOTAL 100%</b>

EPA Reg. No. 66222-10

**Manufactured for:**  
Makhteshim Agan of North America, Inc.  
4515 Falls of Neuse Road, Suite 300  
Raleigh, NC 27609

**NET CONTENTS: 5 LBS.**  
**(5x1 lb. water soluble packets)**

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

<b>FIRST AID</b>	
<b>Contains an organophosphate that inhibits cholinesterase</b>	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious or convulsing person.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact Prozar at 1-877-250-9291 for emergency medical treatment information.</p> <p><b>NOTE TO PHYSICIAN:</b> This product contains diazinon an organophosphate insecticide that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.</p>	

### PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contamination of food and feed. Do not use on humans or pets. Keep out of reach of domestic animals. Be sure to read and follow WORK SAFETY RULES and worker protection precautions appearing on this label.

**NOTIFICATION**  
**JUL 11 2008**

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### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are those made out of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

**Mixers, loaders, applicators, and other handlers using engineering controls must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves if mixing or loading
- Chemical resistant apron if mixing or loading

See engineering controls for additional requirements.

**Handlers performing tasks, such as cleaning equipment or spill clean-up for which engineering controls are not feasible must wear:**

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves
- Chemical resistant footwear plus socks
- Chemical resistant apron if exposed to the concentrate
- A respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA / NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA / NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter

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

### ENGINEERING CONTROLS

Water soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water soluble packets must:

- wear the personal protective equipment required for mixers/loaders using engineering controls; and
- be provided and must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown, chemical resistant footwear and the respirator specified for handlers not using engineering controls.

Applicators using motorized ground equipment and flaggers supporting aerial applications to lettuce must use an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240 (d)(5)] for dermal protection. In addition, applicators must:

- wear the personal protective equipment required in the PPE section of this labeling for handlers using engineering controls
- either wear the respirator specified for handlers not using engineering controls or use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respiratory protection as the respirator specified for handlers not using engineering controls.
- be provided and have immediately available for use in an emergency when they must exit the cab in the treated area coveralls, chemical resistant footwear, and, if not already using one, the respirator specified for handlers not using engineering controls.
- take off any PPE that was worn in the treated area before reentering the cab, and
- store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

**Exception:** For application to apples and lettuce, see directions for use for a special exception to these engineering controls requirements.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

When entering or leaving an aircraft contaminated with pesticide residues, pilots must wear chemical resistant gloves and must store used gloves in a chemical resistant container, such as a plastic bag, to prevent contamination of the inside of the cockpit.

**Note:** Aerial applications are permitted only on lettuce.

### USER SAFETY RECOMMENDATIONS

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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 product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by

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cleaning of equipment or disposal of equipment washwater. This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

### DIRECTIONS FOR USE

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

#### Reformulation or repackaging of this product is prohibited:

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). The REI for each crop is listed in the directions for use associated with each crop. Exception: If the product is soil-injected or 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 worn over long sleeve shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Chemical resistant footwear plus socks
- Chemical resistant headgear if overhead exposures

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

### WORK SAFETY RULES

Repeated exposures to cholinesterase inhibitors such as are contained in this product may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. When handling Diazinon 50W, 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 this label. When handling this product, wear the personal protective equipment listed on this label.

### GENERAL INFORMATION

Diazinon 50W is a wettable powder which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Do not use in greenhouses. Do not use in barns or dwellings. Do not use on livestock. Aerial application is prohibited, except as allowed on the label for use on lettuce.

In the directions for use which follow, best control is obtained when application is made when infestation is noticed.

When an adjuvant is to be used with this product, Makhteshim Agan of North America, Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result. Failure to follow the directions for use and precautions on this label may result in poor insect control, crop injury, or illegal residues.

Do not use water from treated cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA approved diazinon labels.

**Note:** The California Department of Pesticide Regulation has set a 5-day reentry period for diazinon on peaches and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organophosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

### SPRAY EQUIPMENT

Applications of Diazinon 50W using sufficient water volume to provide thorough and uniform coverage generally provide the most effective pest control.

To avoid spray drift, do not apply when conditions favor drift from beyond the target area. Avoid overlap because crop injury may occur.

Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate sprayer before use.

For more information on spray equipment and calibration, consult sprayer manufacturer's and state recommendations. For specific local directions and spray schedules, consult your local or state agricultural authorities.

### MIXING PROCEDURES

Thoroughly clean spray equipment before using this product. Prepare only the amount of spray mixture needed for the immediate application. Vigorous agitation is necessary for proper dispersal of this product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand in the spray tank overnight. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

1. **Diazinon alone:** Add half of the required amount of water to the mix tank. With the agitator running, add Diazinon 50W to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after Diazinon 50W has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.
2. **Diazinon in tank mixtures:** Note: Do not mix Diazinon 50W with any formulation of captan or Captec® because crop injury may occur.

Diazinon is physically compatible with most insecticide and fungicide products; if you are not certain of the physical compatibility of Diazinon 50W with other tank mix partners, please contact your local Makhteshim Agan of North America, Inc. sales representative. When using Diazinon 50W in tank mixtures, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix products' labels. Confirm that the tank mixture is safe to the crop by spraying a small area first, and evaluating crop safety after an appropriate period. Do not treat larger areas until crop safety has been confirmed.

This product, a wettable powder formulation of the insecticide diazinon, is individually packaged in one-pound units in a translucent water soluble bag contained within an outer package. Do not open the water soluble bags. Do not allow the inner bag to become wet before adding to spray or nurse tank. Do not handle the inner bag with wet hands or wet gloves. Rough handling may cause breakage. Do not store at temperatures below 32°F (0°C). Allow to warm above 50°F (10°C) before normal use. Cooler water temperatures increase the time needed for the inner bag to dissolve completely.

This product is intended for dilution with water for spray application. Do not use strainers finer than 50-mesh size. Determine the number of water soluble bag(s) to make up necessary spray suspension. Where dosages are expressed as fractions of pounds, prepare the tank mix to the lower of the nearest whole package. Use a minimum spray volume of 5 gallons of water per acre. Fill the spray or nurse tank ½ full with water. Open the outer wrapper of this product and immediately dump required contents into spray tank. If possible, direct the fill water over the top of the packets. Allow the water soluble bag(s) to dissolve completely. Depending on the water temperature and agitation, the packets should be completely dissolved within approximately 3 to 5 minutes from the time they were added to the spray tank. Start hydraulic or mechanical agitation. Air agitation is not recommended. Mix thoroughly to fully disperse and suspend the wettable powder. Fill the spray tank with the required amount of water. Add tank mix partners in this order: all products in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank mix partner to fully disperse before adding the next product. Maintain sufficient agitation while adding the remainder of the water and until all of the mixture has been applied. Maintain agitation during storage in nurse or supply tank or application.

**Note: Each bag contains 1.0 pound of formulated product, which is equivalent to 0.5 pound active ingredient. The RATE directions for each crop indicates the pounds of formulated product (i.e., number of bags) to be used.**

### CHEMIGATION STATEMENT

Diazinon 50W may be applied alone or in combination with other pesticides registered for application through sprinkler including center pivot, lateral move, end tow side (wheel) roll, traveler, big gun, solid set, or hand move or drip (including surface and subsurface) irrigation systems. Do not apply this product through any other type of irrigation system.

Diazinon is physically compatible with most insecticide and fungicide products; if you are not certain of the physical compatibility of Diazinon 50W with other tank mix partners, please contact your local Makhteshim Agan of North America, Inc. sales representative. **Note: Do not mix Diazinon 50W with any formulation of captan or Captec because crop injury may occur.**

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

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

Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water.

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This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products.

On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and stage of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues.

Meter this product into the irrigation water uniformly during the period of operation. Do not overlap application. Follow recommended label rates, application timing, and other directions and precautions for crop being treated. Continuous mild agitation of pesticide mixture may be needed to assure a uniform application, particularly if the supply tank requires a number of hours to empty.

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

### CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: MANA does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

### SPRINKLER CHEMIGATION

1. 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.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

### Operating instructions

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of Diazinon 50W needed to treat the acreage to be treated. Refer to the specific directions for use for the application rate and the amount of water per acre.
3. Add the pre-measured Diazinon 50W to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if Diazinon 50W is tank mixed with other pesticides registered for sprinkler chemigation application.
4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
5. Engage the chemigation injection or venturi system to add the diazinon to the irrigation lines.
6. Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point.

### DRIP (INCLUDING SURFACE AND SUBSURFACE) CHEMIGATION (SOIL DRENCH USES)

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 pipe 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 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.



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**PREHARVEST INTERVAL**

The required days to wait between the last application and harvest are given in ( ) after each crop name.

**FRUIT AND NUT CROPS**

Diazinon 50W may be applied using ground application equipment as specified in the following table. This table indicates the *minimum* amount of water that can be used for application. The rate of Diazinon 50W for concentrated spray applied to fruit and nut trees by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at a rate of 300-400 gals. of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the rate calls for 1 lb. of Diazinon 50W in 100 gals. of water, this amounts to 3-4 lbs. of product per acre when applied at the usual dilute ground spray volumes of 300-400 gals. of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the **COMMENTS** section for individual crops.

**Note:** To protect bees, do not apply this product to trees when trees or substantial numbers of weeds in the orchard are in bloom.

Diazinon 50W may be used during dormancy on deciduous trees and vines. When mixing with spray oils, follow oil manufacturer's use directions.

CROP	GROUND APPLICATION MINIMUM GALS./ACRE	
	Dilute	Concentrate
Almonds*	100	20
Apples	100	20
Apricots	100	20
Blackberries**	100	20
Blueberries	100	20
Boysenberries**	100	20
Cherries	100	20
Cranberries	15	-
Dewberries**	100	20
Figs*	100	20
Filberts***	250	20
Loganberries**	100	20
Nectarines	100	20
Peaches	100	20
Pears	100	20
Pineapple	200	-
Plums	100	20
Prunes	100	20
Raspberries**	100	20
Strawberries	100	20

\*CA Only

\*\*CA, OH, OR, WA Only

\*\*\*OR, WA Only

**FRUIT AND NUT CROPS**

CROP	PEST	RATE	COMMENTS
ALMONDS (California Only)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borers, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 - 1½ lbs. per 100 gals. water	Apply in 100 gals. water plus 2-3 gals. dormant oil or 1 - 1½ gals. superior type oil. Apply during the dormant season only.
	<ul style="list-style-type: none"> <li>Do not apply more than 6 lbs. of diazinon or 9 gals. of oil per acre.</li> <li>Make a maximum of one application per year during the dormant season only.</li> <li>Apply every other year unless pest infestations can be controlled only with consecutive annual treatments.</li> <li>The REI is 7 days.</li> </ul>		

<b>APPLES (21)</b>	San Jose Scale	1 lb. plus 2 gals. dormant oil or 1 ½ gals. superior type oil	Apply in 100 gals. water. Apply as a dormant or delayed dormant spray.
	Woolly Apple Aphid.	1 lb. per 100 gals. water	Apply when infestations occur. Slight russetting may occur on some varieties of apples, such as Golden Delicious.
	<ul style="list-style-type: none"> <li>• Make a maximum of two applications per year, either one dormant and one foliar application or two foliar applications.</li> <li>• Minimum retreatment interval is 14 days</li> <li>• EXCEPTION for airblast applications to apples: When application using enclosed cab airblast equipment is not feasible in apple orchards, applicators are permitted to use open-cab airblast equipment, PROVIDED they are wearing chemical resistant headgear AND the personal protective equipment specified in this labeling for handlers not using engineering controls.</li> <li>• The REI is 4 days.</li> </ul>		
<b>APRICOTS (21)</b>	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2 gals. dormant oil or 1-1 ½ gals. superior type oil per 100 gals. water	Apply as a dormant spray only once per year. When using spray oils, follow spray oil manufacturer's use directions.
	Aphids, Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 lb. per 100 gals. water	Apply when infestation is noticed.
	Olive Scale Crawler	½ lb. plus 1½ gals. of light medium horticultural oil per 100 gals. of water	Apply when crawlers are present.
	Apricot Mealybug	1 lb. per 100 gals. water	Apply as a cover spray from petal fall to June.
	<ul style="list-style-type: none"> <li>• Do not apply more than 4 lbs. of product per acre per application.</li> <li>• A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest.</li> <li>• For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments.</li> <li>• The REI is 4 days.</li> </ul>		
<b>BLUEBERRIES (7)</b>	Cranberry Fruitworm, Cherry Fruitworm, Blueberry Maggot, Aphids, Thrips, Two-spotted Spider Mite	1 lb. per acre	Apply when infestation occurs.
	Fire Ants	1 lb. per acre	To aid in the control of fire ants, slowly apply 1 gal. of diluted mixture over and 6 inches around each mound. Apply gently to avoid disturbing ants. Use equipment capable of delivering the diluted product as a gentle rain. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness. For best results, apply in cool weather (65-80°F) or in early morning or late evening hours.
	<ul style="list-style-type: none"> <li>• Do not apply more than 1 lb. of product per acre per application.</li> <li>• A maximum of two applications are allowed per year: 1) a maximum of one as an in-season foliar application regardless of target pest and 2) a maximum of one for control of fire ant.</li> <li>• The REI is 5 days.</li> </ul>		
<b>CANE BERRIES (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (California, Ohio, Oregon, and Washington Only) (7)</b>	Raspberry Fruitworm	2 lbs. per acre	Apply when insects occur. Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum). Make application when blossom buds separate.
	Raspberry Crown Borer (Raspberry Root Borer)	4 lbs. per acre	Apply a single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the spring before buds break.
	<ul style="list-style-type: none"> <li>• Do not apply more than 4 lbs. of product per acre per application.</li> <li>• Make a maximum of one application per year regardless of the target pest.</li> <li>• The REI is 5 days.</li> </ul>		

<b>CHERRIES (21)</b>	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 1/4 lb. plus 3 gals. dormant oil or 1 - 1 1/2 gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Apply only once during the dormant season.
	Eyespotted Bud Moth, Fruittree Leafroller, Leafhoppers, Black Cherry Aphid, San Jose Scale Crawler	1 lb. per 100 gals. water	Apply as a cover spray when infestation occurs.
	Cherry Fruit Fly	1/2 - 1 lb. per 100 gals. water	Apply when adult flies begin to emerge.
	Cherry Rust Mite	1/2 - 1 lb. per 100 gals. water	Apply to trees after harvest.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application.</li> <li>A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest.</li> <li>For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments.</li> <li>The REI is 4 days.</li> </ul>		
<b>CRANBERRIES (7)</b>	Blackheaded Fireworm ( <i>Rhopobota naevana</i> )	4 lbs. per acre	Apply to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing. Repeat application after 14 days if necessary. A maximum of 3 applications per year is permitted regardless of target pest.
	Cranberry Fruitworm	4-6 lbs. per acre	Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management adviser. Repeat application after 14 days if necessary. A maximum of 3 applications per year is permitted regardless of target pest.
	Cranberry Tipworm	4 lbs. per acre	Presence of damage is not an indicator of active infestation. For best results, target early-stage larvae. Repeat application after 14 days if necessary. A maximum of 3 applications per year is permitted regardless of target pest.
	<ul style="list-style-type: none"> <li>For all pests, use in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation.</li> <li>Do not make more than 3 applications per year regardless of the target pest.</li> <li>Do not use water from irrigated or flooded cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA approved diazinon labels.</li> <li>The REI is 5 days.</li> </ul>		
<b>FIGS (California Only)(21)</b>	Vinegar flies- <i>Drosophila</i> spp., Dried fruit beetles	1 lb. per 100 gals. of water	Apply 1 lb. per 100 gals. water not to exceed 100 gals. of spray per acre. Apply when infestation occurs.
	<ul style="list-style-type: none"> <li>Do not apply more than 1 lb. of product per acre.</li> <li>Make a maximum of one application per year regardless of target pest.</li> <li>The REI is 4 days.</li> </ul>		
<b>FILBERTS (HAZELNUTS) (Oregon and Washington Only)(45)</b>	Filbert Leafrollers, Aphids	Apply 1 lb. in 250-400 gals. of water per acre	Apply as a thorough cover spray.
	<ul style="list-style-type: none"> <li>Do not apply more than 1 pound of product per acre.</li> <li>Make a maximum of one application per year regardless of target pest.</li> <li>The REI is 18 days.</li> </ul>		
<b>NECTARINES (21)</b>	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. Apply only once during the dormant season.
	Oriental Fruit Moth, Aphids, Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 lb. per 100 gals. water	Apply when infestation occurs.

	Peach Twig Borer, Parlatoria Scale	1 lb. plus 1 gal. light-medium summer horticultural oil per 100 gals. water	Apply when infestation occurs. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre.
	Olive Scale Crawler	½ lb. plus 1 ½ gals. light-medium horticultural oil per 100 gals. water	Apply as infestation occurs. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application.</li> <li>A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest.</li> <li>For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments.</li> <li>The REI is 4 days.</li> </ul>		
PEACHES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2-3 gals. dormant oil or 1-1 ½ gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. Apply only once during the dormant season.
	Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 lb. per 100 gals. water	Apply when infestation occurs.
	Peach Twig Borer, Parlatoria Scale	1 lb. plus 1 gal. light-medium summer horticultural oil per 100 gals. water	Apply when infestation occurs. Do not apply more than 4 lbs. of product or 4 gals. of oil per acre.
	Olive Scale Crawler	½ lb. plus 1 ½ gals. light-medium horticultural oil per 100 gals. water	Apply when infestation occurs. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre.
	Oriental Fruit Moth	1 lb. per 100 gals. water	Apply at 100% petal fall.
	Peach Twig Borer, Leafhoppers	1 lb. per 100 gals. water	Apply when infestation occurs.
	White Peach Scale	1½ - 2 lbs. per 100 gals. water	Apply post harvest timed to coincide with peak crawler and immature scale activity.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application.</li> <li>A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest.</li> <li>For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments.</li> <li>The REI is 4 days.</li> </ul>		
PEARS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Pear Leaf Blister Mite eggs, Twig Borers, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2 gals. dormant oil or 1-1½ gals. superior type oil in 100 gals. water	Apply as a dormant or delayed dormant spray. Do not apply more than 4 lbs. of diazinon or 6 gals. of oil per acre. Apply only once during the dormant season.
	Pear Psylla	½ - 1 lb per 100 gals. water	Apply as a cover spray.
	Tentiform Leafminers, Mealybugs, Codling Moth, Rosy Apple Aphid, Green Apple Aphid, Woolly Apple Aphid, Spider Mites	1 lb. per 100 gals. water	Apply as a cover spray when infestation occurs.
	Apple Maggot	1 lb. per 100 gals. water	Apply as a cover spray when flies are active and laying eggs.

	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. per 100 gals. water	Apply early in the season when crawlers are present.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application.</li> <li>A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest.</li> <li>For in-season applications, apply every other year unless pest infestations can only be controlled only with consecutive annual treatments.</li> <li>The REI is 4 days.</li> </ul>		
PINEAPPLE (7)	Pineapple Mealybug	2 lbs. per acre	Apply in 200 to 500 gals. of water.
	<ul style="list-style-type: none"> <li>Do not make more than two applications per year.</li> <li>Minimum retreatment interval is 28 days</li> <li>The REI is 4 days.</li> </ul>		
PLUMS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2-3 gals. dormant oil or 1-1½ gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. If applied in late April or May, mix diazinon with 1 gal. of light-medium summer horticultural oil per 100 gals. water. Apply only once during the dormant season.
	Brown Mite (Clover Mite), European Red Mite, Leafcurl Plum Aphid, Mealy Plum Aphid, Thistle Aphid	1 lb. per 100 gals. water	Apply when infestation occurs.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application.</li> <li>A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest.</li> <li>For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments.</li> <li>The REI is 4 days.</li> </ul>		
PRUNES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2-3 gals. dormant oil or 1-1½ gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. If applied in late April or May, mix diazinon with 1 gal. of light-medium summer horticultural oil per 100 gals. water. Apply only once during the dormant season.
	Brown Mite (Clover Mite), European Red Mite	1 lb. per 100 gals. water	Apply when infestation occurs.
	Leafcurl Plum Aphid, Mealy Plum Aphid, Thistle Aphid	½-1 lb. per 100 gals. water	
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application.</li> <li>A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest.</li> <li>For in-season applications, apply every other year unless pest infestations can only be controlled only with consecutive annual treatments.</li> <li>The REI is 4 days.</li> </ul>		
STRAWBERRIES (5)	Aphids, Two-spotted Spider Mite, Strawberry Leafroller	1 lb. per 100 gals. water per acre	Apply when pests occur.
	Cyclamen Mite	2 lbs. per 100 gals. water per acre	Direct spray to the plant crown. Plants should be sufficiently agitated to assure thorough coverage of the foliage.
	Mole Crickets	2 lbs. per acre	Broadcast in sufficient water to obtain even coverage when insects are present. Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
	<ul style="list-style-type: none"> <li>Do not apply more than 2 lbs. of product per acre per application.</li> <li>Make a maximum of one foliar application per crop and a maximum of one soil application per crop.</li> <li>The REI is 3 days.</li> </ul>		

**VEGETABLE CROPS**

For foliar or soil applications, Diazinon 50W should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Diazinon 50W may be applied using ground or aerial (lettuce only) application equipment as specified in the following table. Aerial application is prohibited except for applications on lettuce. This table indicates the minimum amount of water that can be used for the application. The specific amount of product to be used appears under the separate directions for use for each crop.

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CROP	GROUND APPLICATION MIN. GPA	MIN. GALS./ 1000 SQ. FT. (GROUND)	AERIAL APPLICATION MIN. GPA
Beans, Succulent	10	2	-
Beets, Red (Table)	10	2	-
Broccoli	10	2	-
Brussels Sprouts	10	2	-
Cabbage	10	2	-
Cantaloupes	5	1	-
Carrots	10	2	-
Casaba Melons	5	1	-
Cauliflower	10	2	-
Collards	10	2	-
Crenshaw Melons	5	1	-
Endive (Escarole)	10	2	-
Honeydew Melons	5	1	-
Kale	10	2	-
Lettuce, Head	10	2	5
Lettuce, Leaf	10	2	5
Muskmelons	5	1	-
Mustard Greens	10	2	-
Onions (Bulb and Green)	10	2	-
Peas, Succulent	10	2	-
Persian Melons	5	1	-
Radishes	10	2	-
Rutabagas	10	2	-
Spinach	10	2	-
Tomatoes	10	2	-
Watermelons	5	1	-

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season. Do not apply in greenhouses.

NOTES: (1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see directions for individual crops) using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of surface cutworms, incorporate 2-3 inches; for subterranean cutworms, incorporate 3-6 inches. (2) Diazinon will not control organophosphate-resistant leafminers.

**VEGETABLE CROPS**

CROP	PEST	RATE/ ACRE	COMMENTS
<b>BEANS, SUCCULENT</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 3 days.</li> </ul>			
<b>BEETS, RED (Table)</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 3 days.</li> </ul>			
<b>BROCCOLI, BROCCOLINI</b>	Root Maggots	4-6 lbs.	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		1 to 2 lbs. in 200 gals. of transplant water	Apply in transplant water as a drench application when 200-300 gals of water are used per acre. Apply recommended rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.

	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 4 days.</li> </ul>		
<b>BRUSSELS SPROUTS</b>	Root Maggots	4-6 lbs.	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		1 to 2 lbs. in 200 gals of transplant water	Apply in transplant water as a drench application when 200-300 gals of water are used per acre. Apply recommended rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 4 days.</li> </ul>			
<b>CABBAGE</b>	Root Maggots	4-6 lbs.	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		1 to 2 lbs. in 200 gals. of transplant water	Apply in transplant water as a drench application when 200-300 gals of water are used per acre. Apply recommended rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 4 days.</li> </ul>			
<b>CARROTS</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 3 days.</li> </ul>			
<b>CAULIFLOWER, BROCCOFLOWER</b>	Root Maggots	4-6 lbs.	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		1 to 2 lbs. in 200 gals. of transplant water	Apply in transplant water as a drench application when 200-300 gals of water are used per acre. Apply recommended rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 4 days.</li> </ul>			
<b>COLLARDS</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 4 days.</li> </ul>			

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<b>ENDIVE (Escarole)</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 4 days.</li> </ul>		
<b>KALE</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 4 days.</li> </ul>		
<b>LETTUCE (Head and Leaf) (14)</b>	Cutworms	4 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	4 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer	½ - 1 lb.	Apply when insects occur.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per crop regardless of target pest.</li> <li>Do not make more than one foliar application per crop regardless of target pest.</li> <li>Aerial application is permitted on lettuce.</li> <li>EXCEPTION for lettuce: Applicators applying to lettuce are permitted to use open-cab equipment, PROVIDED they are wearing chemical resistant headgear AND the personal protective equipment specified in this labeling for handlers not using engineering controls.</li> <li>The REI is 3 days.</li> </ul>		
<b>MELONS (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and hybrids of these) and WATER-MELONS (3)</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer, Thrips, Striped Cucumber Beetle, Melonworms, Leafhoppers, Spider Mites	½-1½ lb.	Apply when infestation occurs.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>Do not make more than one foliar application per year regardless of target pest.</li> <li>The REI is 3 days.</li> </ul>		
<b>MUSTARD GREENS</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 4 days.</li> </ul>		
<b>ONIONS (Bulb and Green), GARLIC, LEEKS, SPRING ONIONS OR SCALLIONS, JAPANESE BUNCHING ONIONS, GREEN SHALLOTS, GREEN ESCHALOTS</b>	Onion Maggots	4-8 lbs.	Broadcast just before planting and mix into the top 3 - 4 inches of soil. Note: Diazinon will not control organophosphate-resistant onion maggots.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 3 days.</li> </ul>		
<b>PEAS, SUCCULENT</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 3 days.</li> </ul>		
<b>RADISHES</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 3 days.</li> </ul>		



<b>RUTABAGAS</b>	Cabbage Maggot	4-6 lbs.	Broadcast just before planting and immediately incorporate into the soil to a depth of 4 inches.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year.</li> <li>The REI is 4 days.</li> </ul>		
<b>SPINACH</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 3 days.</li> </ul>			
<b>TOMATOES</b>	Cutworms	4-8 lbs.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> <li>Do not make more than one soil application per year regardless of target pest.</li> <li>The REI is 2 days.</li> </ul>		

**ORNAMENTAL STATEMENT**

Before treating a large number of ornamental plants with Diazinon 50W alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7 to 10 days prior to treating large areas to reduce the possibility of plant injury.

**INSECT CONTROL ON ORNAMENTALS GROWN OUTDOORS IN NURSERIES**

<b>CROP</b>	<b>PEST</b>	<b>RATE</b>	<b>COMMENTS</b>
<b>ARBORVITAE, AZALEA, BIRCH, BOXWOOD, CAMELLIA, CARNATION, CHRYSANTHEMUM, CRAB APPLE, DOGWOOD, DOUGLAS FIR, ELM, EUONYMUS, GLADIOLI, HAWTHORN, HOLLY, HONEY LOCUST, HONEYSUCKLE, JUNIPER, LILAC, LILY, LOCUST, MAPLE, MARIGOLD, OAK, PANSY, PETUNIA, PINE, ORNAMENTAL PLUM, POPLAR, RHODODENDRON, ROSE, SCOTCH PINE, SPIREA, SPRUCE, SYCAMORE, WAX PLANT (Hoya), WILLOW, YELLOWWOOD, and YEW</b>	Aphids, Bagworms, Carnation Bud Mite, Carnation Shoot Mite, Clover Mite, Cyclamen Mite, Dipterous Leafminer, European Pine Shoot Moth, European Red Mite, Flea Beetles, Holly Bud Moth, Leafhoppers, Obscure Root Weevil, Omnivorous Leaf-tier, Privet Mite, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mite, Juniper Webworm, Whiteflies	1 lb. per 100 gals. of water	Apply the recommended rates. Spray when listed pests first appear. Try to spray underside of leaves and penetrate dense foliage.
	Apple-and-Thorn Skeletonizer, Cotoneaster Webworm, European Pine Sawfly, Fall Webworm, Hemlock Chermes, Oak Looper, Obliquebanded Leafroller, Pear Slug, Tent Caterpillar	2 lbs. per 100 gals. of water	
	Mimosa Webworm	1 lb. in 100 gals. of water	Apply as a thorough foliar spray when adults first appear. Try to spray underside of leaves and penetrate dense foliage.
<ul style="list-style-type: none"> <li>Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur.</li> <li>The maximum application rate on all ornamentals is 2 lbs. of product per acre.</li> <li>Make a maximum of one application per crop cycle.</li> <li>The REI is 7 days for flowers and other commercial ornamentals grown for cutting.</li> <li>The REI is 2 days for all other commercial ornamentals.</li> <li>Application is permitted only on commercial ornamentals grown outdoors in nurseries.</li> </ul>			

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**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in a dry, cool and ventilated space.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal is a violation of Federal law. To avoid harming aquatic organisms in rivers and other surface waters, do not pour spray mixture or rinse water into sanitary drains (for example, toilets, floor drains, and sinks) or into storm water sewers (for example, street drains). If pesticide, spray mixture or rinsate cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:**

**Nonrefillable Container (flexible-bag-all weights):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available.

**Nonrefillable Container (rigid-fifty lbs. or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Nonrefillable Container (rigid-greater than fifty lbs.):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Refillable Container:** Refillable container. Refill this container with diazinon only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**SPILL, FIRE, LEAK or OTHER EMERGENCY:** In the event of a major spill, fire, leak, or other emergency, call Infotrac at 1-800-535-5053, 24 hours.

**LIMITATION OF WARRANTY AND LIABILITY**

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.**

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.

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Diazinon 50W (66222-10)(EPA app 1-3-07)(notif to EPA 2-6-07)(notif to EPA 5-20-08)(notif to EPA 06-03-08)



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## SUPPLEMENTAL LABEL DIAZINON 50W INSECTICIDE

EPA Reg. No. 66222-10

### DIRECTIONS FOR USE

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

**READ ENTIRE LABEL AND PAMPHLET, USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

**FOR PROTECTION OF AQUATIC SPECIES IN COUNTIES AND PORTIONS OF COUNTIES LOCATED IN THE SACRAMENTO AND SAN JOAQUIN VALLEYS BELOW 1000 FEET ELEVATION FROM POTENTIAL CONTAMINATION IN SURFACE WATERS OF DIAZINON APPLIED DURING THE DORMANT SPRAY PERIOD, THE FOLLOWING ADDITIONAL LABEL REQUIREMENTS APPLY:**

- Dormant applications on orchard crops are restricted to ground application equipment only.
- Do not apply within 100 feet upslope of "sensitive aquatic sites" such as any irrigation ditch, drainage canal or body of water that may drain into a river or tributary unless a suitable method is used to contain or divert runoff waters. Waters that are contained or diverted must be held for a minimum of 72 hours before release into a sensitive aquatic site.
- Maintain a vegetative buffer strip a minimum of 10 feet wide from the edge of a field that is adjacent to and within 100 feet of sensitive aquatic sites.
- Do not apply this product to orchards when soil moisture is at field capacity, and/or when a storm event likely to produce runoff from the treated orchard is forecasted by NOAA/NWS, (National Weather Service) to occur within 48 hours following application.
- Make dormant applications only when insect scouting information or the recommendation of a Pest Control Advisor indicate treatment is required. (See UC IPM Guidelines for San Jose Scale in stone fruits and almonds and aphids in stone fruits. Use the prune dormant spur sampling program to determine need for a dormant treatment in that crop).
- Apply only when wind speed is 3- 10 mph at the application site as measured by an anemometer outside of the orchard on the side nearest and upwind from a sensitive site.
- When sensitive aquatic sites are downwind from orchards, spray the first three rows nearest the sensitive aquatic sites only when the wind is blowing away from the sites. The row at the edge of the field next to sensitive aquatic sites must be sprayed with the outside nozzles turned off. Spray must not be directed higher than the tree canopy and spray must be directed away from sensitive aquatic sites.
- The Stewardship Bulletin "**Orchard Practices for Protecting Surface Water**" must be available to handlers and equipment operators at the application site during all application activities. (note: Bulletin available through CURES)

**THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION. PLEASE REFER TO CONTAINER LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**