

19713-492

2/14/2012

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

FEB 14 2012

Ms. Luz Chan  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

Dear Ms. Chan:

Subject: Application for Pesticide Notification (PRN 98-10)  
Revise Melons directions per limitations of manufacturing use product label  
and Update Storage and Disposal section per PR Notice 2007-4  
Drexel Diazinon 50WP  
EPA Reg. No. 19713-492  
Your submission dated January 30, 2012

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated April 16, 2010 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds the action requested falls within the scope of PRN 98-10. The label submitted with the application has been 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 regarding this letter, please contact Dana Pilitt, Ph.D. at (703) 305-7071 or via e-mail at [pilitt.dana@epa.gov](mailto:pilitt.dana@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Suarez", with a large, stylized flourish extending to the right.

Mark Suarez  
Product Manager 13  
Insecticide Branch  
Registration Division (7505P)



2/14



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 19713-492	2. EPA Product Manager Mark Suarez	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) DREXEL DIAZINON 50 WP	PM# 13/Insecticide Branch	
5. Name and Address of Applicant (Include ZIP Code) Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327 <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: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" 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.)

Submission of revised label to comply with the terms of source manufacturing-use product.

This notification is consistent with the provisions of PR Notice 98-10 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 any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 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:				2. Type of Container	
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
				<input checked="" type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input 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
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container less than 5 gallons; 5 gallons & greater		5. Location of Label Directions <input type="checkbox"/> on the label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled				<input type="checkbox"/> Other _____	

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name LUZ G CHAN	Title REGISTRATION MANAGER	Telephone No. (Include Area Code) (901) 774-4370
<b>Certification</b> 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.		6. Date Application Received (Stamped)
2. Signature 	3. Title REGISTRATION MANAGER	
4. Typed Name LUZ G CHAN	5. Date January 30, 2012	





**Drexel Chemical Company**

January 30, 2012

Document Processing Desk (**NOTIF**)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Rm S-4900, One Potomac Yard  
2777 S Crystal Drive  
Arlington, VA 22202

**Re: Submission of Revised Label by Notification per PR Notices 98-10 and 2007-4  
DREXEL DIAZINON 50 WP (EPA Reg. No. 19713-492)**

Herewith:

1. Completed EPA Form 8570-1 & certification statement per PR Notice 98-10.
2. Certification statement per PR Notice 2007-4.
3. Two copies (marked and unmarked) of the label (~~492~~SP-0112\*) with the following revisions:
  - On page 9, the directions for use on "Melons and Watermelons" and "Honeydew melons" were revised to comply with terms of source manufacturing-use product label.
  - On page 10, the container disposal statements were updated per PR Notice 2007-4.

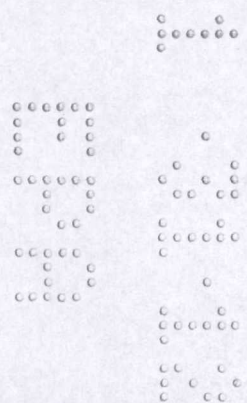
The changes were highlighted for easy reference.

If you have questions/clarification regarding this submission, I can be reached at (901) 774-4370 or e-mail [Lchan@drexchem.com](mailto:Lchan@drexchem.com).

Thank you.

Respectfully yours,  
FOR DREXEL CHEMICAL COMPANY

Luz G Chan  
Registration Manager





# 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.

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## NOTIFICATION

FEB 14 2012



# Diazinon 50WP

Insecticide

For control of certain Insects and Mites on Fruits, Nuts, Vegetables, Field crops, and Ornamentals grown outdoors in nurseries. For specific pests, refer to use directions.

### ACTIVE INGREDIENT:

Diazinon ..... 50.0%

OTHER INGREDIENTS: ..... 50.0%

TOTAL: ..... 100.0%

Diazinon 50WP is a wettable powder.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

See FIRST AID Below

EPA Reg. No. 19713-492

EPA Est. No. 19713-GA-001

Net Content: \_\_\_\_\_

### FIRST AID

#### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

#### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

#### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.

**NOTE TO PHYSICIAN:** This product contains diazinon, an organophosphate that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal, but should be administered only in conjunction with atropine.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans or pets. Do not contaminate ornamental fish ponds. Be sure to read and follow "WORK SAFETY RULES" and Worker Protection precautions appearing on this label.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are those made out of any waterproof material.

**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 and chemical-resistant apron, if mixing or loading. See engineering controls for additional requirements.

**Handlers performing tasks, such as cleaning equipment or spill cleanup, 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 and 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 N, R or P or HE prefilter. Type N cannot be used if product is tank mixed with oil.

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 (WPS) for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water-soluble packets must:

- 1) Wear the PPE required for mixers/loaders using engineering controls.
- 2) 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.

(Continued)

Manufactured By:

**Drexel Chemical Company**

P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1972

492SP-0112\*

DIAZINON 50 WP Page 1 of 11



## PRECAUTIONARY STATEMENTS (Cont.)

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

- 1) Wear the personal protective equipment required in the PPE section of this labeling for handlers using engineering controls.
- 2) 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.
- 3) 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.
- 4) Take off any PPE that was worn in the treated area before reentering the cab.
- 5) 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 applications 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:** 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This product is 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 cleaning of equipment or disposal of equipment washwaters. 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.

## GENERAL INFORMATION

DIAZINON 50WP is a wettable powder which, when diluted with water according to the directions, is intended for control of insect pests of agricultural crops and other plants. Do not use this product in greenhouses. Do not use in barns or dwellings. Do not use on livestock. In the "DIRECTIONS FOR USE" which follow, best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

## 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 rinse to a previously treated area.

## DIRECTIONS FOR WATER-SOLUBLE BAGS

Paks containing this product are water-soluble. Do not allow pak to become wet prior to adding to the spray tank. Do not handle paks with wet hands. To prepare the spray mixture, drop the required number of unopened paks into spray tank while filling with the appropriate

amount of water. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the paks should be completely dissolved in approximately 5 minutes from the time they are added to the water. Use the specified dosage of this product in the amount of water necessary to give complete coverage. Determine the total amount to be added to the spray tank based on the rates in the "Crop" section. Note: Products containing boron and/or fertilizers will prevent the water-soluble packet from dissolving. Boron and/or fertilizer products must only be added after packet(s) have completely dissolved.

## This product in Tank-Mixtures:

**NOTE: Do not mix this product with any formulation of Captan or Captec® because crop injury may occur.**

This product is compatible with most insecticide and fungicide products; however, physical compatibility with tank mix partners should be tested before use. Add proportionate amount of each product in water. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be readily remixed, the products are compatible. Once the compatibility has been proven, add half of the required amount of water to the mix tank. Start the agitator running before adding any tank-mix partners. 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. When using this product in tank-mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions and limitations which appear on the tank mix products' label. 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.

## DIRECTIONS FOR USE

### RESTRICTED USE PESTICIDE

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. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap since crop or plant injury may result. 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 (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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), notification to workers, and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry to treated areas during the 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 WPS, 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 WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls worn over long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, chemical-resistant footwear plus socks, and chemical-resistant headgear, if overhead exposure.

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

**Note:** The California Department of Agriculture has set a 5-day REI for this product on Nectarines and Peaches. 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

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to the largest applicable interval an additional 50% of that interval.  
**FAILURE TO FOLLOW THE "DIRECTIONS FOR USE" AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY OR ILLEGAL RESIDUES.**

**WORK SAFETY RULES**

REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS DIAZINON CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING, CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR. When handling this product, 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.

**SPRAY EQUIPMENT**

Applications of this product 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.

**AERIAL APPLICATION**

Aerial applications are only permitted in Lettuce. Avoid application when uniform coverage will not result or when excessive spray drift may occur. Do not allow product to contact animals or unprotected persons.

**CHEMIGATION**

**Application Through an Irrigation System (Chemigation)—**

This product may be applied alone or in combination with other pesticides registered for application through sprinkler (including center pivot, lateral move, end four side (wheel) roll, traveler, big gun, solid set or hand move), or drip (trickle) irrigation systems (including surface and subsurface.) Do not apply this product through any other type of irrigation system. To ensure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed or can be remixed readily, the mixture is compatible.

Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact your State Extension Service specialists, equipment manufacturers or other experts. Do not connect the 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, if the need arises.

**Chemigation System Connected to Public Water Systems**

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

**Sprinkler and Drip (Trickle) Chemigation**

1. The system must contain a functional check-valve, a 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 a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation

- system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not use sprinkler chemigation 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 this product 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 product to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when this product is used alone or tank-mixed with other pesticides registered for sprinkler or drip chemigation.
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 this product 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 farthest from the chemigation injection point.

**Note:** When treatment with this product has been completed, further field irrigation over the treated area should be avoided for 48 hours to prevent washing this product off the crop. Apply this product only in sufficient irrigation water to achieve thorough plant coverage. Excess water will wash the product from the plant, resulting in poor control. To avoid a hazard to animals, wells or adjoining crops, do not allow irrigation water to collect or runoff.

**FRUIT AND NUT CROPS**

This product may be applied using ground application equipment as specified in the following table. This table also indicates the minimum amount of water that can be used. The rate of this product for concentrated spray applied by ground equipment is based on a dilute full cover spray applied to fruit or nut trees with conventional ground equipment at a rate of 300 to 400 gallons of water per acre. The specific amount of product to be used appears under the separate "DIRECTIONS FOR USE" for each crop.

**Note:** ("pounds or pounds of product" in the directions means pounds of this product, not pounds of active ingredient). If the "Rate" calls for 1 pound of this product per 100 gallons of water, this amounts to 3 to 4 pounds of product per acre when applied to fruit trees at usual dilute ground spray volumes of 300 to 400 gallons 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 "DIRECTIONS FOR USE" for individual crops.

Crop	Ground Application	
	Minimum Gals. per Acre	
	Dilute	Concentrate
Almonds*, Apples, Apricots, Blackberries**, Blueberries, Boysenberries**, Cherries	100	20
Cranberries	15	—
Dewberries**, Loganberries**, Nectarines, Peaches, Pears	100	20
Pineapple	200	—
Plums, Prunes, Raspberries**, Strawberries	100	20
* CA Only		
** CA, OR or WA Only		

Observe stated time intervals between application and harvest (PHI), as well as the total number of applications that can be made per season.



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Crop	PHI
Almonds	*
Apples, Apricots, Cherries, Nectarines, Peaches, Pears, Plums, Prunes	21
Blackberries, Blueberries, Boysenberries, Cranberries, Dewberries, Loganberries, Pineapple, Raspberries	7
Strawberries	5
* = Dormant Spray Only.	

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

Fruit and Nut Crop	Pests Controlled	Rate
Almonds (CA Only) (REI = 7 days)	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 to 1.5 lbs. + 2 to 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply only as a single dormant spray. Do not apply more than 6 lbs. of this product or 9 gals. of oil per acre.		

**RESTRICTIONS:** Apply during the dormant season only. Do not apply more than once per year. Apply every other year, unless pest infestations can be controlled only with one consecutive annual treatments.

Apples (REI = 4 days)	San Jose scales	1 lb. + 2 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant or delayed-dormant spray. Do not apply more than 6 gals. of oil per acre.	
	San Jose scale crawlers	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.	
	Woolly apple aphids	1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply as a cover spray when infestation occurs. If infestation warrants, make a second application 14 days later. <b>Note:</b> Mites will be suppressed if this product is used in the regular cover spray program. Slight russeting may occur on some varieties of Apples such as Golden Delicious.		

**RESTRICTIONS:** 1) Do not apply more than two applications per year, either one dormant and one foliar application or two foliar applications. 2) Do not apply more than 4 lbs. of this product per acre per application. 3) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

**Exception for air blast applications to Apples:** When application using enclosed-cab air blast equipment is not feasible in Apple orchards, applicators are permitted to use open-cab air blast equipment PROVIDED they are wearing chemical-resistant headgear and PPE specified in the labeling for handlers not using engineering controls.

Fruit and Nut Crop	Pests Controlled	Rate
Apricots (REI = 4 days)	Apple aphid eggs, Apricot scales, Black scales, Black cherry aphid eggs, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 gals. of oil per acre.	
	Aphids, Brown mites (Clover mites), Olive scale crawlers, San Jose scale crawlers, Twospotted spider mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur.	
	Olive scale crawlers	0.5 lb. + 1.5 gals. of light medium horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when scale crawlers are present. Do not apply more than 6 gals. of oil per acre per application.	
	Apricot mealybugs	1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply as a single cover spray between petal fall to June.		
<b>RESTRICTIONS:</b> 1) Do not make more than one application during the growing season. Apply every other year unless pest infestation can be controlled only with consecutive annual treatments. 2) Do not make more than one application during the dormant season. 3) Do not apply more than 4 lbs. of this product per acre per application. 4) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Blueberries (REI = 5 days)	Aphids, Blueberry maggots, Cherry fruitworms, Cranberry fruitworms, Thrips, Twospotted spider mites	1 lb. per acre
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur.	
	Fire ants	1 lb. per acre
	TIMING/SPECIAL DIRECTIONS: To aid in control of Fire ants, slowly apply 1 gal. of diluted mixture over and 6 inches to each Fire ant 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. <b>Note:</b> For best results apply in cool weather, 65°F to 85°F, or in early morning or late evening hours.	
<b>RESTRICTIONS:</b> 1) Do not make more than one foliar application per year. 2) Do not make more than one application for Fire ant control per year. 3) To avoid illegal residues, allow a minimum of 7 days between application and harvest.		
Caneberries, (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (CA, OR and WA Only) (REI = 5 days)	Raspberry fruitworms	2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum)
	TIMING/SPECIAL DIRECTIONS: Apply when insects occur. Make an application when blossom buds separate.	

(Continued)



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Fruit and Nut Crop	Pests Controlled	Rate	
Caneberries, (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (CA, OR and WA Only) (REI = 5 days) (Cont.)	Raspberry crown borers (Raspberry root borers)	4 lbs. per acre in a minimum of 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply as a drench to the crown and lower canes in the Spring before buds break.		
<b>RESTRICTIONS:</b> 1) Do not make more than one application per year. 2) To avoid illegal residues, allow a minimum of 7 days between application and harvest.			
Cherries (REI = 4 days)	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1.25 lbs. + 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 gals. of oil per acre.		
	Eyepotted bud moths, Fruittree leafrollers	1 lb. per 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur, beginning at petal fall.		
	Leafhoppers	1 lb. per 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Make application beginning at petal fall when infestations occur.		
	Cherry fruitflies	0.5 to 1 lb. per 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Make an application beginning when adult flies begin to emerge.		
	Black cherry aphids	1 lb. per 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply as a cover spray when Aphids appear.		
	San Jose scale crawlers	1 lb. per 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply during the pre-pink stage, or when crawlers first appear.		
	<b>RESTRICTIONS:</b> 1) Do not make more than one application during the growing season. Apply every other year unless pest infestation can be controlled only with consecutive annual treatments. 2) Do not make more than one application during the dormant season. 3) Do not apply more than 4 lbs. of this product per acre per application. 4) To avoid illegal residues, allow a minimum of 21 days between application and harvest.		
	Cranberries (REI = 5 days)	Blackheaded fireworms ( <i>Rhopobota naevana</i> )	4 lbs. per acre
TIMING/SPECIAL DIRECTIONS: Apply at larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing. Repeat application after 14 days, if necessary.			
Cranberry fruitworms		4 to 6 lbs. per acre	
TIMING/SPECIAL DIRECTIONS: Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management advisor. Repeat application every 14 days, as needed.			
	Cranberry tipworms	4 lbs. per acre	

Fruit and Nut Crop	Pests Controlled	Rate
Cranberries (REI = 5 days) (Cont.)	TIMING/SPECIAL DIRECTIONS: Presence of damage is not an indicator of active infestation. For best results, target early-stage larvae. Repeat application after 14 days, if necessary.	
<b>RESTRICTIONS:</b> 1) Do not make more than three applications per year. 2) This product may be applied to Cranberries via ground or sprinkler irrigation. For ground application, apply the product in a minimum of 15 gals. of water per acre. For chemigation, apply up to 400 gals. of water per acre. Refer to the "CHEMIGATION" section of this label for specific chemigation directions. 3) 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 label. 4) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.		
Nectarines (REI = 4 days)	Apple aphid eggs, Black cherry aphid eggs, Black scales, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals of dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 gals. of oil per acre.	
	Aphids, Brown mites (Clover mites), Olive scale crawlers, San Jose scale crawlers, Twospotted spider mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur.	
	Parlatoria scales, Peach twig borers	1 lb. + 1 gal. light medium Summer horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply at petal fall. Do not apply more than 4 gals. of Summer oil per acre.	
	Olive scale crawlers	0.5 lb. + 1.5 lbs. light medium horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when insects occur. Do not apply more than 4 gals. of Summer oil per acre per application.	
	Oriental fruitmoths	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply at 100% petal fall.	
<b>RESTRICTIONS:</b> 1) Do not make more than one application during the growing season. Apply every other year unless pest infestation can be controlled only with consecutive annual treatments. 2) Do not make more than one application during the dormant season. 3) Do not apply more than 4 lbs. of this product per acre per application. 4) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Peaches (REI = 4 days)	Apple aphid eggs, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals. of dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 gals. of oil per acre.	
<b>(Continued)</b>		



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Fruit and Nut Crop	Pests Control	Rate
Peaches (REI = 4 days) (Cont.)	Aphids, Brown mites (Clover mites), Olive scale crawlers, San Jose scale crawlers, Twospotted spider mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur.	
	Parlatoria scales, Peach twig borers	1 lb. + 1 gal. light medium Summer horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply at petal fall. Do not apply more than 4 gals. of Summer oil per acre.	
	Olive scale crawlers	0.5 lb. + 1.5 lbs. light medium horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when insects occur. Do not apply more than 4 gals. of Summer oil per acre per application.	
	Oriental fruitmoths	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply at 100% petal fall.	
	Peach twig borers	1 lb. 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when insects occur in May and June.	
	Leafhoppers	1 lb. 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make an application, beginning at petal fall.	
	White peach scales	1.5 to 2 lbs. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply at post-harvest, timed to coincide with peach crawler and immature scale activity.	

**RESTRICTIONS:** 1) Do not make more than one application during the growing season. Apply every other year unless pest infestation can be controlled only with consecutive annual treatments. 2) Do not make more than one application during the dormant season. 3) Do not apply more than 4 lbs. of this product per acre per application. 4) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Pears (REI = 4 days)	Apple aphid eggs, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Pearleaf blister mite eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals of dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 gals. of oil per acre.	
	Pear psyllas	0.5 to 1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a cover spray at pre-pink stage.	
	Mealybugs, Tentiform leafminers	1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Make a cover spray, beginning in April.		

Fruit and Nut Crop	Pests Controlled	Rate
Pears (REI = 4 days) (Cont.)	Codling moths, Green apple aphids, Rosy apple aphids, Spider mites, Woolly apple aphids	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make a cover spray, beginning when infestations occur. <b>Note:</b> Mites will be suppressed if this product is used in this regular cover spray program.	
	Apple maggots	1 lb. per 100 gals. of water
	Forbes scale crawlers, San Jose scale crawlers	1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply early in the season, when crawlers first appear.		

**RESTRICTIONS:** 1) Do not make more than one application during the growing season. Apply every other year unless pest infestation can be controlled only with consecutive annual treatments. 2) Do not make more than one application during the dormant season. 3) Do not apply more than 4 lbs. of this product per acre per application. 4) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Pineapple (REI = 4 days)	Pineapple mealybugs	2 lbs. per acre per 200 to 500 gals. of water
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**RESTRICTIONS:** Do not make more than two applications per year. Do not apply within 7 days of harvest or illegal residues may occur.

Plums	Apple aphid eggs, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Pearleaf blister mite eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals of dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 4 lbs. of products or 6 gals. of oil per acre. If applied in late April or May, mix this product with 1 gal. of light medium Summer horticultural oil per 100 gals. of water	

Plums	Brown mites, Clover mites, European red mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestation occurs.	
	Leafcurl plum aphids, Mealy plum aphids, Thistle aphids	0.5 to 1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply when infestation occurs.		

**RESTRICTIONS:** 1) Do not make more than one application during the growing season. Apply every other year unless pest infestation can be controlled only with consecutive annual treatments. 2) Do not make more than one application during the dormant season. 3) Do not apply more than 4 lbs. of this product per acre per application. 4) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Prunes (REI = 4 days)	Apple aphid eggs, Apricot scales, black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 gals. of oil per acre. For late April or May applications, mix this product with 1 gal. of light medium Summer horticultural oil per 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 gals. of oil per acre.	
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 gals. of oil per acre. For late April or May applications, mix this product with 1 gal. of light medium Summer horticultural oil per 100 gals. of water	

(Continued)



10/14

Fruit and Nut Crop	Pests Control	Rate
Prunes (REI = 4 days) (Cont.)	Brown mites, Clover mites, European red mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestation occurs.	
	Leafcurl plum aphids, Mealy plum aphids, Thistle aphids	0.5 to 1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestation occurs.	
<b>RESTRICTIONS:</b> 1) Do not make more than one application during the growing season. Apply every other year unless pest infestation can be controlled only with consecutive annual treatments. 2) Do not make more than one application during the dormant season. 3) Do not apply more than 4 lbs. of this product per application. 4) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Strawberries (REI = 3 days)	Aphids, Twospotted spider mites	1 lb. per 100 gals. of water per acre
	TIMING/SPECIAL DIRECTIONS: Apply when pests occur.	
	Cyclamen mites	2 lbs. per 100 gals. of water per acre
	TIMING/SPECIAL DIRECTIONS: Direct spray to the plant crown. Plants should be sufficiently agitated to assure thorough coverage of foliage.	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Apply 1 to 2 days before transplanting and immediately incorporate into the top 1 to 2 inches of soil.	
	Strawberry leafroller	0.75 to 1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply 200 gals. of spray per acre when blossoms show color.		
<b>RESTRICTIONS:</b> 1) Do not make more than one foliar application and one soil application per crop. 2) Do not apply more than 2 lbs. of this product per acre per application. 3) Allow a minimum of 5 days between the last application and harvest.		

**VEGETABLE CROPS**

For foliar or soil applications, this product should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. This product may be applied by ground application as specified in the following table. This table indicates the minimum amount of water that can be used. The specific amount of product to be used appears under the separate "DIRECTIONS FOR USE" for each crop.

Crops	Ground Application			Aerial Application
	Minimum Gals. per Acre	OR	Minimum Gals. per 1,000 Sq. Ft.	Minimum Gals. per Acre
Beets, Red (Table), Broccoli, Brussels sprouts, Cabbage, Carrots, Cauliflower, Collards, Endive (Escarole), Kale, Mustard, Onions (Bulb, Green), Radishes, Rutabagas, Spinach, Tomatoes	10		2	Do not apply by air
Lettuce (Head, Leaf)	10		2	5
Cantaloupes, Casaba melons,	5		1	Do not apply by air
<i>(Continued)</i>				

Crops	Ground Application		Aerial Application
	Minimum Gals. per Acre	OR	Minimum Gals. per 1,000 Sq. Ft.
(Cont.) Crenshaw melons, Honeydew melons, Muskmelons, Persian melons, Watermelons	5		1 Do not apply by air

Observe stated time intervals between last application and harvest maximum numbers of applications per season. Do not apply to food crops grown in greenhouses.

**Notes: Soil Incorporation:** Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see "TIMING/SPECIAL DIRECTIONS") using a rotary hoe, cultivator, disk, harrow or other suitable means. For control of Surface cutworms, incorporate 2 to 3 inches, for Subterranean cutworms, incorporate 3 to 6 inches.

Vegetable Crop	Pests Controlled	Rate
Beets, Red (Table) (REI = 3 days)	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Broccoli (REI = 4 days)	Root maggots	4 to 6 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	1 to 2 lbs. per 200 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 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 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
Wireworms	6 to 8 lbs. per acre	
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
<i>(Continued)</i>		



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Vegetable Crop	Pests Controlled	Rate
Brussels sprouts (REI = 4 days)	Root maggots	4 to 6 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	1 to 2 lbs. per 200 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 300 gals. are used per acre, apply recommended rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.	
	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Cabbage (REI = 4 days)	Root maggots	4 to 6 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting or transplanting and immediately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	1 to 2 lbs. per 200 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 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. <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.	
	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Carrots (REI = 3 days)	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	

Vegetable Crop	Pests Controlled	Rate
Carrots (REI = 3 days) (Cont.)	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Carrot rust flies	4 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Apply as a drench to the seed furrow at planting.	
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Cauliflower (REI = 4 days)	Root maggots	4 to 6 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	1 to 2 lbs. per 200 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 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. <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.	
	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Collards (REI = 4 days)	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTION:</b> Do not make more than one soil application per year.		

(Continued)



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Vegetable Crop	Pests Controlled	Rate
Endive (Escarole) (REI = 4 days)	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Kale (REI = 4 days)	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Lettuce (Head, Leaf) (REI = 3 days)	Cutworms	4 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	4 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Aphids, Dipterous leafminers	0.5 to 1 lb. per acre
TIMING/SPECIAL DIRECTIONS: Apply when insect occur. Do not apply within 14 days of harvest. Do not make more than one foliar application per year. Aerial application is permitted. <b>Exception:</b> Applicators applying to Lettuce are permitted to use open-cab equipment, PROVIDED they are wearing chemical-resistant PPE specified in this labeling for handlers not using engineering controls. <b>Note:</b> This product will not control organophosphate-resistant Leafminers.		
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians and hybrids of these) and Watermelons (REI = 3 days)	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Wireworms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTION:</b> Do not make more than one soil application per year.		

Vegetable Crop	Pests Controlled	Rate
Honeydew melons (REI = 3 days)	Aphids, Dipterous leafminer, Thrips, Striped cucumber beetle, Melonworms, Leafoppers, Spider mites	0.5 to 1.5 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Apply when infestation occurs.	
<b>RESTRICTION:</b> Do not make more than one foliar application per year regardless of target pest.		
Mustard (REI = 4 days)	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil	
	Wireworms	6 to 8 lbs. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately into the top 4 to 8 inches of soil.		
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Onions (Bulb and Green), Garlic, Leeks, Spring onions or Scallions, Japanese bunching onions, Green shallots, Green eschalots (REI = 3 days)	Onion maggots	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and mix into the top 3 to 4 inches of soil. (See "Soil Incorporation Note".) <b>Note:</b> This product will not control organophosphate-resistant Onion maggots.	
	Wireworms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Radishes (REI = 3 days)	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One or two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wire worms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTION:</b> Do not make more than one soil application per year.		
Rutabagas (REI = 4 days)	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and incorporate into the soil. (See "Soil Incorporate Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One or two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
Wireworms 6 to 8 lbs. per acre TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTION:</b> Do not make more than one soil application per year.		

(Continued)



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Vegetable Crop	Pests Controlled	Rate
Tomatoes (REI = 2 days)	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil	
	Wireworms	6 to 8 lbs. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTION:</b> Do not make more than one soil application per year.		

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

REI — 7 days for Flowers and Other Commercial Ornamentals Grown for Cuttings; 2 days for all Other Commercial Ornamentals.

To control certain insects on ornamentals, such as 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, Ornamental plum, Pansy, Petunia, Pine, Poplar, Rhododendron, Rose, Scotch pine, Spirea, Spruce, Sycamore, Wax plant (Hoya), Willow, Yellowwood and Yew, apply the recommended rates indicated below. Apply when pests first appear. Try to spray underside of leaves and penetrate dense foliage.

**Note:** Do not use on Ferns, Gardenias, Hibiscus, Papayas, Pilea and Poinsettias, since injury to the plants may occur.

**RESTRICTION:** Do not apply more than one foliar application per crop cycle. Application is permitted only on commercial ornamentals grown outdoors in nurseries. The maximum application rate on all ornamentals is 2 lbs. of this product (1 lb. ai) per acre.

Insects	Amount of This Product per 100 Gals. of Water
Aphids, Bagworms, Carnation bud mites, Carnation shoot mites, Clover mites, Cyclamen mites, Dipterous leafminers, European pine shoot moths, European red mites, Flea beetles, Holly bud moths, Juniper webworms, Leafhoppers, Obscure root weevils, Omnivorous leafhoppers, Privet mites, Scale crawlers (Cottony cushion, Lecanium, Pine needle, San Jose, Soft), Thrips, Twospotted spider mites, Whiteflies	1 lb.
Apple-and-thorn skeletonizers, Cotoneaster webworms, European pine sawflies, Fall webworms, Hemlock chermes, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars	2 lbs.

**Mimosa webworms:** Mix 1 pound in 100 gals. of water and apply as a thorough foliar spray when adults first appear.

**STORAGE AND DISPOSAL**

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

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

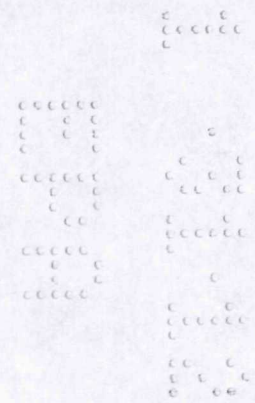
**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. To avoid harming aquatic organisms in rivers and other surface waters, do not pour spray mixture or rinse water into sanitary drains (for example: toilets, floor drains and sinks) or into storm water sewers (for example: street drains). If pesticide, spray mixture or rinsates 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:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY—CONDITIONS OF SALE**

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. To the extent consistent with applicable law, Manufacturer makes no other warranties or representations of any kind, expressed or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

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**Drexel Chemical Company**

**FOR USE IN CALIFORNIA  
EPA REG. NO. 19713-492**

**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 to 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.**

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**SINCE 1972**

