

2935-388

02/26/2002

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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 4 SPRAY

## 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 in booklet.

**ACCEPTED**

FEB 26 2002

Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 as amended, for the pesticides  
 registered under  
 EPA Reg. No. 2935-388

**Active Ingredient:**

Diazinon: O,O-Diethyl O-(2-isopropyl-6-  
 methyl-4-pyrimidinyl) phosphorothioate, CAS # 333-41-5 ..... 48%  
 Other Ingredients: ..... 52%  
 Total: ..... 100%

\*Contains Xylene Range Aromatic Solvents

Diazinon 4 spray contains 4 lbs. Diazinon per gallon.

EPA Reg. No. 2935-388

EPA Est. No. 2935-CA-1

### KEEP OUT OF REACH OF CHILDREN CAUTION

#### FIRST AID

This product contains diazinon, an organophosphate insecticide that inhibits cholinesterase. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**If Swallowed:**

- Call a poison control center or doctor immediately for treatment advice.
- Have a 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 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**If Inhaled:**

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

**If on Skin or Clothing:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

For 24 Hour Medical Emergency Assistance (Human or Animal) or  
 Chemical Emergency Assistance (Spill, Leak, Fire or Accident)  
 Call CHEMTREC: (800) 424-9300

#### 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.

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Avoid contamination of food and feed. Food utensils such as tablespoons and measuring cups should not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans, household pets or livestock. Do not contaminate ornamental fish ponds. Do not permit children or pets to go onto treated areas until spray has dried.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are Chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: A) Long-sleeved shirt; B) Long pants; C) Chemical-resistant gloves such as Barrier Laminate, Butyl Rubber, Nitrile Rubber or Viton; D) Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### CHEMICAL/PHYSICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

**Net Contents: 2-1/2 Gallons**

Continued...

**ENVIRONMENTAL HAZARDS**

This product is highly toxic to birds, fish and other wildlife. Birds, especially water fowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping of sprays. If waterfowl, i.e. ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs. 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.

**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, 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. 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): see specific crop recommendations.

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: A) coveralls; B) Chemical-resistant gloves such as Barrier Laminate, Butyl Rubber, Nitrile Rubber or Viton; C) Shoes plus socks.

**USER SAFETY RECOMMENDATIONS**

Users should:

A) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

B) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

C) 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.

**STORAGE AND DISPOSAL**

1. **Prohibitions:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.
2. **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.
3. **Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.
4. **Storage:** Store in original container only and keep sealed. Store in closed storage areas. Use caution when moving, opening, closing or pouring. Do not pour or use near heat or flame.

**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.

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.

For specific crops and pests, refer to use directions in booklet.

**NOTICE:** The statements made on this label are believed to be true and accurate but because of conditions of use which are beyond our control, WILBUR-ELLIS COMPANY does not make, nor does it authorize any agent or representative to make, any warranty, guaranty or representation, expressed or implied, concerning this material or the use thereof, except in conformity with the statements on the label. Neither WILBUR-ELLIS COMPANY nor the seller shall be held responsible in any manner for any personal injury or property damage or loss resulting to the buyer or to the other person from handling, storage or use of this material, not in accordance with directions. The buyer assumes all risk and liability resulting from improper handling, storage or use and accepts and uses this material on these conditions.

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**In Case of Emergency,  
Call CHEMTREC: (800) 424-9300**

Manufactured in U.S.A. by

Wilbur-Ellis Company  
P.O. Box 16458, Fresno, CA 93755

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# DIAZINON 4 SPRAY

## INSECTICIDE

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

Active Ingredient:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate, CAS # 333-41-5	48%
Other Ingredients*	52%
Total:	100%

\*Contains Xylene Range Aromatic Solvents  
Diazinon 4 spray contains 4 lbs. Diazinon per gallon.

EPA Reg. No. 2935-388

EPA Est. No. 2935-CA-1

### KEEP OUT OF REACH OF CHILDREN CAUTION

See additional precautionary statements and directions for use on container label.

#### DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**IMPORTANT:** Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

#### 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.

**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 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.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result.

**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 4 Spray, 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 the container label. 3/15

Observe stated time intervals between last application and harvest, as well as intervals between applications and total amount of product that can be applied per season.

#### GENERAL INFORMATION

Diazinon 4 Spray is an emulsifiable solution 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.

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.

**NOTE:** The California Department of Agriculture has set a 5-day reentry period for diazinon on grapes, 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.

#### CHEMIGATION

**APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) – CRANBERRIES ONLY**

Diazinon 4 Spray may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems to cranberries. To insure 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 re-mixed readily, the mixture is compatible.

Do not apply this product through any type of irrigation system to other crops. For chemigation, apply this product to cranberries only through sprinkler irrigation systems. Do not apply this product to cranberries through any other type of irrigation system.

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 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. Back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. 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, 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 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 4 Spray needed to treat the acreage to be treated. Refer to the specific directions for use for cranberries for the application rate and the amount of water per acre.
3. Add the pre-measured Diazinon 4 Spray to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if Diazinon 4 Spray is tank mixed with other pesticides registered for sprinkler chemigation application to cranberries.
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.

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

REI = 12 hours

To control certain insects on Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladioli, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Rose, Spruce and Willow, apply the recommended rates indicated below. Repeat as necessary. Try to spray underside of leaves and penetrate dense foliage.

Insects	Amount of Diazinon 4 Spray	
	Rate per 3 Gals. Water	Rate per 100 Gals. 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, Leafhoppers, Obscure Root Weevils, Omnivorous Leafhoppers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mites, Juniper Webworms, Whiteflies	1/2 fl. oz.*	1 pt.**
Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars	1-1/2 fl. oz.*	3 pts.**

\* 1 fl. oz. = 2 tablespoons

\*\* 16 fl. ozs. = 1 pint

*Precaution: Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea and Gardenia, since injury to the plants may occur.*

Mimosa Webworms: Mix 1 pt. in 100 gals. of water and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4-6 week intervals.

**FRUIT AND NUT CROPS**

REI= 24 hours

Diazinon 4 Spray may be applied using ground or aerial application equipment as specified in the following table. This table indicates the minimum amount of water that can be used for the various methods of application.

The rate of Diazinon 4 Spray for aerial spray or concentrated spray applied to fruit trees by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at a rate of 300-400 gallons 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 pt. of Diazinon 4 Spray in 100 gals. of water, this amounts to 3-4 pts. 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 Timing/Special Directions for individual crops.

\*PHI – Pre-Harvest Interval or the number of days to wait between the last application and harvest. See specific directions for use on grapes.

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

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Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Almonds (CA only— **Dormant spray only.)	San Jose Scale, Parlatona Scale	1-1½ pts. + 2-3 gals. dormant oil or 1-1½ gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 6 pts. of diazinon or 9 gals. of oil per acre.	20	100	20	**
Apricots	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.	20	100	20	21
	Olive Scale Crawlers	1/2 pt. + 1-1/2 gals. of light medium horticultural oil per 100 gals. of water.	Apply when scale crawlers are present.				
	Apricot Mealybugs	1 pt. per 100 gals. of water	Apply as a cover spray from petal fall to June. Allow 14 days between applications.				

NOTE: (1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season.  
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Caneberries (CA, OR and WA only); Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries	Leafhoppers, Thrips, Aphids, Two-Spotted Spider Mites, Raspberry Fruitworms, Raspberry Sawflies	1 qt. per acre	Apply as insects occur. Repeat application after 14 days if nec- essary. Do not make more than 5 applications per season.  Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum).  For Raspberry Fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.	20	100	20	7
	Dryberry Mites	1-2 qts. per acre	Apply as a dormant spray in the early Spring, when canes are still on the ground and buds are closed.  Make a second application when buds are well developed but still closed. Apply in a minimum of 100 gals. of water per acre.				
	Raspberry Crown Borers (Raspberry Root Borers)	2 qts. 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.				

NOTE: (1) Do not apply more than 2 qts. of product per acre per application and no more than 5 qts. of product per acre per season.  
(2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

Cherries	EyeSpotted Bud Moths, Fruit Tree Leafrollers	1 pt. in 100 gals. of water	Apply in cover sprays as infes- tations occur beginning at petal fall. Repeat application after 7 days, if necessary.	20	100	20	21
	Leafhoppers	1 pt. in 100 gals. of water	Make 3 applications beginning at petal fall and continuing through the growing season as infesta- tions occur. Allow 7 days between applications.				
	Cherry Fruitflies	1/2-1 pt. in 100 gals. water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals.				
	Black Cherry Aphids	1 pt. in 100 gals. of water	Apply as a cover spray when aphids appear. Repeat applica- tion after 10 days, if necessary.				
	San Jose Scale Crawlers	1 pt. in 100 gals. of water	Apply during the pre-pink stage or when crawlers first appear.				

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Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Cherries <i>Continued</i>	Cherry Rust Mites	1/2 - 1 pt. in 100 gals. of water	Apply to trees as a single supplemental spray after harvest.	20	100	20	21

NOTE: (1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season.  
 (2) Allow a minimum of 21 days between the last application and harvest.

Cranberries	Blackheaded Fireworms ( <i>Rhopobota naevana</i> )	2 qts. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation.	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 6 applications per season is permitted.	20	15	-	7
	Cranberry Fruitworms	2-3 qts. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation.	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 every 14 days, as needed. A maximum of 4 applications per season is permitted for the 3 qt. rate. A maximum of 6 applications is permitted for the 2 qt. rate.				

NOTE: (1) Do not apply more than 12 qts. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest. (3) This product may be applied to cranberries through sprinkler irrigation. Refer to the section CHEMIGATION for specific chemigation directions for use. (4) 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.

Grapes	Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafrollers, Omnivorous Leafrollers, Aphids, Spider Mites	1-2 pts. per acre in a minimum of 100 gals. of water	Apply as pest occurs as a thorough cover spray. Repeat application after 7 days, if necessary.	20	100	20	28
	Drosophila spp.	6 fl. oz. per acre in a minimum of 100 gals. of water (300 gals. of water max.)	Apply as pest occurs as a thorough cover spray. Repeat application after 7 days, if necessary.				

NOTE: (1) Do not apply more than 2 pts. of product per acre per application and no more than 10 pts. per acre per season.  
 (2) To avoid illegal residues, allow 28 days between the last application and harvest.

Nectarines	Oriental Fruit Moths	1 pt. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight.	20	100	20	21
	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days, if necessary.				

NOTE: (1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. per acre per season.  
 (2) Allow a minimum of 21 days between the last application and harvest.

Peaches	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days, if necessary.	20	100	20	21
	Oriental Fruit Moths	1 pt. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight.				
	Peach Twig Borers	1 pt. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between applications.				
	Leafhoppers	1 pt. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications.				
	White Peach Scale	1-1/2 to 2 pts. in 100 gals. of water	Apply post-harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation 2 applications (7 days apart) may be needed. Do not apply before fruit is harvested.				

NOTE: (1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season.  
 (2) Allow a minimum of 21 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Plums	Brown Mites (Clover Mites), European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days.	20	100	20	21
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 pt. in 100 gals. of water					

NOTE: (1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season.  
 (2) Allow a minimum of 21 days between the last application and harvest.

Prunes	Brown Mites (Clover Mites) European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days.	20	100	20	21
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 pt. in 100 gals. of water					

NOTE: (1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season.  
 (2) Allow a minimum of 21 days between the last application and harvest.

Strawberries	Aphids, Two-spotted Spider Mites	1 pt. in 100 gals. of water per acre	Apply as pests occur. Repeat application, if necessary every 7 days.	20	100	20	5
	Cyclamen Mites	1 qt. in 100 gals. of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat application after 7 days, if necessary.				
	Mole Crickets	1 qt. 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.				
	Strawberry Leafrollers	3/4-1 pt. in 100 gals. of water	Apply 200 gals. of spray per acre when blossoms show color.				

NOTE: (1) Do not apply more than 1 qt. of product per acre per application and no more than 4 qts. of product per acre per season.  
 (2) To avoid illegal residues, allow a minimum of 5 days between the last application and harvest.

Walnuts (CA only)	Aphids, Spider Mites	1 qt. per acre	Apply as a foliar spray. Repeat application in 14 days, if necessary. Make ground applications in a minimum of 100 gals. of water per acre.	20	100	20	45
	Codling Moths, Scale Crawlers, Walnut Caterpillars	3 qts. per acre					

NOTE: (1) Do not apply more than 4 qts. of product per acre per application and no more than 9 qts. of product per acre per season.  
 (2) To avoid illegal residues, allow a minimum of 45 days between the last application and harvest. Do not apply after husks open.

### VEGETABLE CROPS – REI = 24 hours

For foliar or soil applications, Diazinon 4 Spray should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Diazinon 4 Spray may be applied using ground or aerial application equipment as specified in the following table.

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 Timing/Special Directions) 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) To Protect Bees: Foliar applications of this product should not be made to corn during the pollen shed period.

Do not apply this product in greenhouses.

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Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Beets, Red (Table) Beets.	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	2	10	14
	Mole Crickets	1 qt. per acre	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.				
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant Leafminers.				
Broccoli	Root Maggots	2-3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.	5	2	10	7
		4-8 oz. per 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4-8 oz.) per plant by hand or 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	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)				
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.				
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre.	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant Leafminers.				



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Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Brussels Sprouts	Root Maggots	2-3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.	5	2	10	7
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4-8 ozs.) per plant by hand or 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	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)				
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.				
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Aphids, Diamondback Moths, Imported Cabbageworms	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.				0
Cabbage	Root Maggots	2-3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.	5	2	10	21
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4-8 ozs.) per plant by hand or 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	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)				

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Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Cabbage <i>Continued</i>	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	5	2	10	21
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 21 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant Leafminers.				
Carrots	Cutworm	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	2	10	14
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.				
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Aphids	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 14 days of harvest or illegal residues may occur.				
Cauliflower	Root Maggots	2-3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil	5	2	10	7
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4-8 ozs.) per plant by hand or 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	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)				

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Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Cauliflower <i>Continued</i>	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	5	2	10	7
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times within a minimum of 7 days between applications.  Do not apply within 7 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant Leafminers.				
Chinese Broccoli, Chinese Cabbage (Bok Choy and Napa), Chinese Mustard (Gai Choy)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 10 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant Leafminers.	5	2	10	10
Chinese Radish (Japanese Radish or Daikon) (FL and CA only)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1 pt. per acre	Mix in a minimum of 100 gals. of water per acre and apply as a foliar spray as pests occur. Repeat application as necessary, every 14 days. Do not make more than 3 applications per season.  Do not apply within 10 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant Leafminers.	5	2	10	10
Collards, Kale  **10 (Collards) 14 (Kale)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	2	10	**
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.				
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Bugs, Corn Earworms	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply to collards within 10 days of harvest or illegal residues may occur. Do not apply to kale within 14 days of harvest or illegal residues may occur.				

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Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Endive (Escarole) Lettuce (head and leaf)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	2	10	14
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.				
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. NOTE: Diazinon will not control organophosphate-resistant Leafminers.				
Ginseng	Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice	3/4-1 pt. per acre	Spray when insects first appear. For heavy insect infestations, use 1 pt. per acre. Apply by ground equipment using 10-100 gals. of water per acre. Do not apply more than one application per growing season. Do not apply during flowering of three or four year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.	5	2	10	30
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and Hybrids of these) and Watermelons	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	1	5	3
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	1/2 to 1-1/2 pts. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant Leafminers.				
Mustard	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	2	10	10
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil				

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Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Mustard <i>Continued</i>	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	5	2	10	10
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbage-worms	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest. NOTE: Diazinon will not control organophosphate-resistant Leafminers.				
Onions (Bulb and Green)	Onion Maggots	2-4 qts. per acre	Broadcast just before planting and mix into the top 3-4 inches of soil. NOTE: Diazinon will not control organophosphate-resistant onion maggots.	5	2	10	14
	Onion Thrips	1 pt. per acre	Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.				
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
Radishes	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	2	10	14
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.				0
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant Leafminers.				
Spinach	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	2	10	14
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				

M/15

Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Spinach Continued	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. NOTE: Diazinon will not control organophosphate-resistant Leafminers.	5	2	10	14
Sweet Corn	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	4	20	7
	Sweet Corn Maggots	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.				
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.				
	Corn Earworms	1 to 1-1/4 qts. per acre	Apply when silks first appear. Repeat application every 7 days if necessary. Do not make more than 5 applications per season.				
	Corn Rootworm (Adults)	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.				
	Corn Leaf Aphids	1-2 pts. per acre	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.				
	Grasshoppers, Spider Mites, Flea Beetles	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.				
	Sap Beetles	2 to 2-1/2 pts. per acre	Consult local agricultural authorities for preparation and timing of sprays. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.				
<p>Note: (1) To protect bees, do not apply foliarly to corn during the pollen shed period. (2) Allow 7 days after the last application before grazing or cutting for forage. Forage may be fed to beef and dairy cattle and sheep. (3) Corn may be picked 7 days after the last application.</p>							
Tomatoes	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	5	2	10	1
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.				

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Crop	Pest	Rate	Timing/Special Directions	Aerial Application Minimum Gal/Acre	Ground Application Minimum Gal/Acre		PHI
					Dilute	Concentrate	
Tomatoes <i>Continued</i>	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	5	2	10	1
	Aphids, Dipterous Leafminers	1/2 pt. per acre	Apply as insects occur. Repeat application, as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within one day of harvest or illegal residues may occur.				
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	3/4-1 pt. per acre	NOTE: Diazinon will not control organophosphate-resistant Leafminers.				
	Vinegar Flies ( <i>Drosophila spp.</i> )	1/2 to 1-1/2 pts. per acre					

## FIELD CROPS

REI = 24 hours

Soil and foliar applications of Diazinon 4 Spray should always be applied as a spray in sufficient water to ensure thorough coverage. For foliar applications, observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season.

Crop	Pest	Rate	Timing/Special Directions	PHI
Hops	Aphids, Spider Mites	1 qt. per acre	Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 4 applications per season. Do not apply within 14 days of harvest.	14
Sugar Beets	Wireworms	3-4 qts. per acre	Broadcast just before planting. Incorporate into soil 4-6 inches. Do not apply more than 4 qts. of this product to the soil, per season.	14
	Beet Leafhoppers, Dipterous Leafminers, Aphids	3/4-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. NOTE: Diazinon will not control organophosphate-resistant Leafminers.	
	Grasshoppers	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest.	

Note: Sugar beet tops may be fed to beef and dairy animals.

F-0102

In Case of Emergency, Call CHEMTREC: (800) 424-9300

Manufactured in U.S.A. by



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