

**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.

# **DIAZOL<sup>®</sup>**

## **DIAZINON 50W**

### **A Wettable Powder Insecticide**

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

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

## **KEEP OUT OF REACH OF CHILDREN**

## **CAUTION**

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

### **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

### **CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, or clothing. 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. Do not use on humans or pets. Keep out of reach of domestic animals. Be sure to read and follow WORK SAFETY RULES and worker protection precautions appearing on this label.

EPA Reg. No. 66222-10  
EPA Est. No. 11678-1S-01



Makhteshim-Agan of North America, Inc.  
551 Fifth Avenue, Suite 1100  
New York, NY 10176

**ACCEPTED**

FEB 27 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 66222-10

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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.

**ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**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. 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.

**DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI). Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

**WORK SAFETY RULES**

Repeated exposures to cholinesterase inhibitors such as are contained in this product may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. When handling Diazol 50W, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See FIRST AID section of this label. When handling this product, wear the personal protective equipment listed on this label.

**GENERAL INFORMATION**

Diazol 50W is a wettable powder which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Do not use in greenhouses. Do not use in barns or dwellings. Do not use on livestock.

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.

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

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

**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.

**SPRAY EQUIPMENT**

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

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

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

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

**MIXING PROCEDURES**

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

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

Diazol is compatible with most insecticide and fungicide product; however, physical compatibility with tank mix partners should be tested before use. Using a quart jar, add the proportionate amounts of each product to one quart of water. Add wettable powders and water-dispersable granule 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 mixed, the products are compatible.

Once 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 Diazol 50W in tank mixtures, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix products' labels. Confirm that the tank mixture is safe to the crop by spraying a small area first, and evaluating crop safety after an appropriate period. Do not treat larger areas until crop safety has been confirmed.

**AERIAL APPLICATION**

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.

Failure to follow the directions for use and precautions on this label may result in poor insect control, crop injury, or illegal residues.

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

**PREHARVEST INTERVAL**

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

**FRUIT AND NUT CROPS - REI 24 hours**

Diazol 50W 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 Diazol 50W 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 gals. of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the rate calls for 1 lb. of Diazol 50W in 100 gals. of water, this amounts to 3-4 lbs. of product per acre when applied at the usual dilute ground spray volumes of 300 - 400 gals. of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the **COMMENTS** section for individual crops.

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

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

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

\*CA Only

\*\*CA, OR, or WA Only

FRUIT AND NUT CROPS			
CROP	PEST	RATE	COMMENTS
ALMONDS (California Only)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borers, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 - 1½ lbs. per 100 gals. water	Apply in 100 gals. water plus 2 - 3 gals. dormant oil or 1 - 1½ gals. superior type oil. Apply as a single dormant spray only.
	<ul style="list-style-type: none"> <li>Do not apply more than 6 lbs. of diazinon or 9 gals. of oil per acre.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
APPLES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borers, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2 gals. dormant oil or 1 1½ gals. superior type oil in 100 gals. water	Apply as a dormant or delayed dormant spray. Do not apply more than 4 lbs. of diazinon or 6 gals. of oil per acre
	Leafhoppers	1 lb. per 100 gals. water	Apply, beginning at petal fall, as infestations develop. Repeat application in 14 days if necessary.
	Eyespotted Bud Moth, Fruitree Leafroller, Mealybugs	1 lb. per 100 gals. water	Make three cover sprays, beginning at pink stage. Do not repeat application closer than 14 days.
	Codling Moth, Rosy Apple Aphid, Green Apple Aphid, Woolly Apple Aphid, Spider Mites	1 lb. per 100 gals. water	Make three cover sprays beginning when infestations occur. Do not repeat application closer than 14 days. Note: Mites will be suppressed if diazinon is used in the regular cover spray program. Slight russeting may occur on some varieties of apples, such as Golden Delicious.
	Apple Maggot	1 lb. per 100 gals. water	Make three cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. Note: Diazinon may not control organophosphate-resistant apple maggots.
	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. per 100 gals. water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season.</li> </ul>		
APRICOTS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2 gals. dormant oil or 1 - 1½ gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre

CROP	PEST	RATE	COMMENTS
APRICOTS (21) Continued	Aphids, Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 lb. per 100 gals. water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Olive Scale Crawler	½ lb. plus 1½ gals. of light medium horticultural oil per 100 gals. of water	Apply when scale crawlers are present. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre
	Apricot Mealybug	1 lb. per 100 gals. water	Apply as a cover spray from petal fall to June. Allow 14 days between applications.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
BLUEBERRIES (7)	Cranberry Fruitworm, Cherry Fruitworm, Blueberry Maggot, Aphids, Thrips, Two-spotted Spider Mite	2 lbs. per acre	Apply as infestations occur. Allow 14 days between applications.
	Fire Ants	2 lbs. per acre	To aid in the control of fire ants, slowly apply 1 gal. of diluted mixture over and 8 inches to each mound. Apply gently to avoid disturbing ants. Use equipment capable of delivering the diluted product as a gentle rain. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness. For best results, apply in cool weather (65-80°F) or in early morning or late evening hours.
	<ul style="list-style-type: none"> <li>Do not apply more than 2 lbs. of product per acre per application and no more than 10 lbs. of product per acre per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
CANEBERRIES (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (California, Oregon and Washington only) (7)	Leafhoppers, Thrips, Aphids, Two-spotted Spider Mite, Raspberry Fruitworm	2 lbs. per acre	Apply as insects occur. Repeat application after 14 days if necessary. Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum). For Raspberry Fruitworm, make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mite	2 - 4 lbs. per acre	Apply in a minimum of 100 gals. of water 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.
	Raspberry Crown Borer (Raspberry Root Borer)	4 lbs. per acre	Apply a single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the spring before buds break.

CROP	PEST	RATE	COMMENTS
<b>CANE BERRIES</b> (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (California, Oregon and Washington only) (7) continued	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application and no more than 10 lbs. of product per acre per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
<b>CHERRIES (21)</b>	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1½ lb. plus 3 gals. dormant oil or 1 - 1½ gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.
	Eyespotted Bud Moth, Fruitree Leafroller	1 lb. per 100 gals. water	Apply as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.
	Leafhoppers	1 lb. per 100 gals. water	Make 3 - 4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.
	Cherry Fruit Fly	½ - 1 lb. per 100 gals. water	Make 3 - 4 applications beginning when adult flies begin to emerge and repeating at 10-day intervals.
	Black Cherry Aphid	1 lb. per 100 gals. water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.
	San Jose Scale Crawler	1 lb. per 100 gals. water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mite	½ - 1 lb. per 100 gals. water	Apply to trees as a single supplemental spray to trees after harvest.
<b>CRANBERRIES (7)</b>	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
	Blackheaded Fireworm ( <i>Rhopobota naevana</i> )	4 lbs. per acre	Apply to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted.
	Cranberry Fruitworm	4-6 lbs. per acre	Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management adviser. Repeat application after 14 days if necessary. A maximum of 4 applications per season is permitted for the 6 lb. rate. A maximum of 6 applications is permitted for the 4 lb. rate.

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CROP	PEST	RATE	COMMENTS
CRANBERRIES (7) continued	Cranberry Tipworm	4 lbs. per acre	Presence of damage is not an indicator of active infestation. For best results, target early-stage larvae. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted.
	<ul style="list-style-type: none"> <li>For all pests, use in a minimum of 15 gals. of water per acre for ground application, a minimum of 20 gals. of water per acre for aerial application, and up to 400 gals. of water per acre for chemigation.</li> <li>Do not apply more than 24 lbs. of product per acre per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> <li>Do not use water from irrigated or flooded cranberry bed for drinking purposes or to irrigate crops other than those appearing on EPA approved diazinon labels.</li> </ul>		
GRAPES (28)	Pacific Spider Mite, Leafhoppers, Grape Berry Moth, Grape Leafroller, Omnivorous Leafroller, Aphids, Spider Mites	1 - 2 lbs. per acre	Apply in a minimum of 100 gals. (maximum of 200 gals.). Apply as a thorough cover spray when pest appears. Repeat application after 7 days if necessary.
	<i>Drosophila</i> spp.	6 fl. oz.	Use per acre in a minimum of 100 gals. of water (300 gals. of water maximum). Apply as a thorough cover spray when pest appears. Repeat application after 7 days if necessary.
	<ul style="list-style-type: none"> <li>Do not apply more than 2 lbs. of product per acre per application and no more than 10 lbs. per acre per season</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
NECTARINES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2-3 gals. dormant oil or 1 - 1½ gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 8 gals. of oil per acre.
	Oriental Fruit Moth	1 lb. per 100 gals. water	Apply at 100% petal fall. Make 2 additional applications at 10 - 15 day intervals. Time the last application to peak adult flight.
	Aphids, Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 lb. per 100 gals. water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Peach Twig Borer, Parlatoria Scale	1 lb. plus 1 gal. light-medium summer horticultural oil per 100 gals. water	Apply at petal fall. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre.



CROP	PEST	RATE	COMMENTS
NECTARINES (21) continued	Olive Scale Crawler	½ lb. plus 1 ½ gals. light- medium horticultural oil per 100 gals. water	Apply as insects occur. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 pts. per acre per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
PEACHES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2-3 gals. dormant oil or 1 - 1 ½ gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.
	Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 lb. per 100 gals. water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Peach Twig Borer, Parlatoria Scale	1 lb. plus 1 gal. light-medium summer horticultural oil per 100 gals. water	Apply at petal fall. Do not apply more than 4 lbs. of product or 4 gals. of oil per acre.
	Olive Scale Crawler	½ lb. plus 1 ½ gals. light-medium horticultural oil per 100 gals. water	Apply as insects occur. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications.
	Oriental Fruit Moth	1 lb. per 100 gals. 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 Borer	1 lb. in 100 gals. water	Apply as insects occur in May and June. Allow 7 days between applications.
	Leafhoppers	1 lb. per 100 gals. 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	1½ - 2 lbs. per 100 gals. water	Apply post-harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation, two applications 7 days apart may be needed.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		

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CROP	PEST	RATE	COMMENTS
PEARS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Pear Leaf Blister Mite eggs, Twig Borers, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2 gals. dormant oil or 1 1/2 gals. superior type oil in 100 gals. water	Apply as a dormant or delayed dormant spray. Do not apply more than 4 lbs. of diazinon or 6 gals. of oil per acre
	Pear Psylla	1/2 - 1 lb. per 100 gals. water	Apply as a cover spray at prepink stage. Make one to two additional applications during the first and second cover sprays, if necessary. Allow at least 14 days between applications.
	Tentiform Leafminers, Mealybugs	1 lb. per 100 gals. water	Make three cover sprays beginning in April. Allow at least 14 days between applications.
	Codling Moth, Rosy Apple Aphid, Green Apple Aphid, Woolly Apple Aphid, Spider Mites	1 lb. per 100 gals. water	Make three cover sprays beginning when infestations occur. Allow at least 14 days between applications. Note: Mites will be suppressed if diazinon is used in the regular cover spray program.
	Apple Maggot	1 lb. per 100 gals. water	Make three cover sprays when flies are active and laying eggs. Allow at least 14 days between applications. Note: Diazinon may not control organophosphate-resistant apple maggots.
	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. per 100 gals. water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
PINEAPPLE (7)	Pineapple Mealybug	2 lbs. per acre	Apply in 200 to 500 gals. of water. Repeat application as necessary every 28 days up to a maximum of 8 applications.
PLUMS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 lb. plus 2-3 gals. dormant oil or 1 - 1 1/2 gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. If applied in late April or May, mix diazinon with 1 gal. of light-medium summer horticultural oil per 100 gals. water.

CROP	PEST	RATE	COMMENTS
PLUMS (21) continued	Brown Mite (Clover Mite), European Red Mite	1 lb. per 100 gals. water	Apply as needed every 7 days.
	Leafcutter Plum Aphid, Mealy Plum Aphid, Thistle Aphid	½ - 1 lb. per 100 gals. water	
	<ul style="list-style-type: none"><li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season.</li><li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li></ul>		
PRUNES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1lb. plus 2-3 gals. dormant oil or 1 - 1½ gals. superior type oil per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. If applied in late April or May, mix diazinon with 1 gal. of light-medium summer horticultural oil per 100 gals. water.
	Brown Mite (Clover Mite), European Red Mite	1 lb. per 100 gals. water	Apply as needed every 7 days.
	Leafcutter Plum Aphid, Mealy Plum Aphid, Thistle Aphid	½ - 1 lb. per 100 gals. water	
	<ul style="list-style-type: none"><li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season.</li><li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li></ul>		
WALNUTS (California only) (45)	Aphids, Spider Mites	2 lbs. in 100 gals. water per acre	Apply as a foliar spray. Repeat application in 14 days if necessary.
	Codling Moth, Scale Crawlers, Walnut Caterpillar	6 lbs. in 100 gals. water per acre	
	<ul style="list-style-type: none"><li>Do not make more than 3 applications per season.</li><li>Do not apply more than 8 lbs. of product per acre per application and no more than 18 lbs. of product per acre per season.</li><li>Do not apply within 45 days of harvest or after husks open.</li><li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li></ul>		

## VEGETABLE CROPS - REI 24 hours

For foliar or soil applications, Diazol 50W should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Diazol 50W 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 specific amount of product to be used appears under the separate directions for use for each crop.

CROP	GROUND APPLICATION MIN. GPA	MIN. GALS/ 1000 SQ. FT. (GROUND)	AERIAL APPLICATION MIN. GPA
Beets, Red (Table)	10	2	5
Broccoli	10	2	5
Brussels Sprouts	10	2	5
Cabbage	10	2	5
Cantaloupes	5	1	5
Carrots	10	2	5
Casaba Melons	5	1	5
Cauliflower	10	2	5

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CROP	GROUND APPLICATION MIN. GPA	MIN. GALS./ 1000 SQ. FT. (GROUND)	AERIAL APPLICATION MIN. GPA
Chinese Broccoli	10	2	5
Chinese Cabbage	10	2	5
Chinese Mustard	10	2	5
Collards	10	2	5
Crenshaw Melons	5	1	5
Endive (Escarole)	10	2	5
Honeydew Melons	5	1	5
Kale	10	2	5
Lettuce, Head	10	2	5
Lettuce, Leaf	10	2	5
Muskmelons	5	1	5
Mustard	10	2	5
Onions (Bulb and Green)	10	2	5
Persian Melons	5	1	5
Radishes	10	2	5
Rutabagas	10	2	5
Sweet Corn	20	4	5
Watermelons	5	1	5

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

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

## VEGETABLE CROPS

CROP	PEST	RATE/ ACRE	COMMENTS
BEETS, RED (Table) (14)	Cutworms	4-8 lbs.	(Or use 1½ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer	½-1 lb.	(Or 1/5 to 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>			

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CROP	PEST	RATE/ ACRE	COMMENTS
BROCCOLI (7)	Root Maggots	4-6 lbs.	(Or use 1½ - 2½ oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. Use 4-8 oz. in 50 gals. of transplant water as a drench application when 200-300 gals of water are used per acre. Apply ½-1 cup (4 to 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	4-8 lbs.	(Or use 1½ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminer	½-1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> <li>• Do not make more than 5 foliar applications per season.</li> <li>• NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>			
BRUSSELS SPROUTS (7)	Root Maggots	4-6 lbs.	(Or use 1½ - 2½ oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. Use 4-8 oz. in 50 gals. of transplant water as a drench application when 200-300 gals of water are used per acre. Apply ½-1 cup (4 to 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	4-8 lbs.	(Or 1½ to 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

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CROP	PEST	RATE/ ACRE	COMMENTS
BRUSSELS SPROUTS (7) continued	Aphids, Diamondback Moth, Imported Cabbageworm	½-1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
CABBAGE (21)	Root Maggots	4-6 lbs.	(Or use 1½ - 2¼ oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. Use 4-8 oz. in 50 gals. of transplant water as a drench application when 200-300 gals of water are used per acre. Apply ½-1 cup (4 to 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	4-8 lbs.	(or 1½ to 3 oz. per 1000 sq. ft. ) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminer	½-1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
CARROTS (14)	Cutworms	4-8 lbs.	(or 1½ to 3 oz. per 1000 sq. ft. ) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Carrot Rust Fly	4 lbs.	(Or 1 ½ oz. per 1000 sq. ft.) Apply as a drench to the seed furrow at planting.
	Aphids	1 lb.	(Or 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		

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CROP	PEST	RATE/ ACRE	COMMENTS
CAULIFLOWER (7)	Root Maggots	4-6 lbs.	(Or 1½ - 2½ oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. Use 4-8 oz. in 50 gals. of transplant water as a drench application when 200-300 gals of water are used per acre. Apply ½-1 cup (4 to 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	4-8 lbs.	(or 1½ to 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminer	½-1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, with a minimum of 7 days between applications.
<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled <b>APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</b></li> </ul>			
CHINESE BROCCOLI, CHINESE CABBAGE (Bok Choy and Napa ), CHINESE MUSTARD (Gai Choy) (10)	Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminer	½-1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled <b>APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</b></li> </ul>		
COLLARDS (10)	Cutworms	4-8 lbs.	(or 1½ to 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

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CROP	PEST	RATE/ ACRE	COMMENTS
COLLARDS (10) continued	Aphids, Diamondback Moth, Imported Cabbageworm, Harlequin Bug, Corn Earworm	½-1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
ENDIVE (Escarole) (14)	Cutworms	4-8 lbs.	(Or 1½ to 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diterous Leafminer	½-1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
KALE (10)	Cutworms	4-8 lbs.	(or 1½ to 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moth, Imported Cabbageworm, Harlequin Bug, Corn Earworm	½-1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		



CROP	PEST	RATE/ ACRE	COMMENTS
LETTUCE (Head and Leaf) (14)	Cutworms	4-8 lbs.	(or 1½ to 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer	½ - 1 lb.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled <b>APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</b></li> </ul>		
MELONS (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and hybrids of these) and WATER-MELONS (3)	Cutworms	4-8 lbs.	(or 1½ to 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer, Thrips, Striped Cucumber Beetle, Melonworms, Leafhoppers, Spider Mites	½-1½ lb.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled <b>APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</b></li> </ul>		
MUSTARD (10)	Cutworms	4-8 lbs.	(or 1½ to 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	2 lbs.	(Or use ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer, Diamondback Moth, Imported Cabbageworm	½-1 lb.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled <b>APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</b></li> </ul>		

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CROP	PEST	RATE/ ACRE	COMMENTS
ONIONS (Bulb and Green)(14)	Onion Maggots	4-8 lbs.	(Or 1½ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and mix into the top 3 - 4 inches of soil. Note: Diazinon will not control organophosphate-resistant onion maggots.
	Onion Thrips	1 lb.	(Or 2/5 oz. per 1000 sq. ft.) Apply as thrips appear. Repeat application, as necessary, every 7 days.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> <li>Do not make more than 3 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled <b>APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</b></li> </ul>		
RADISHES (14)	Cutworms	4-8 lbs.	(Or 1½ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Crickets	2 lbs.	(Or ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4 - 8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	½ - 1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft. ) Apply as insects occur. Repeat application as necessary up to 3 times with a minimum of 7 days between applications.
RUTABAGAS (14)	Cutworms	4-8 lbs.	(Or 1½ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Crickets	2 lbs.	(Or ¾ oz. per 1000 sq. ft.) One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2¼ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4 - 8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	½ - 1 lb.	(Or 1/5 - 2/5 oz. per 1000 sq. ft. ) Apply as insects occur. Repeat application as necessary every 7 days.
<ul style="list-style-type: none"> <li>Do not make more than 5 foliar applications per season.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled <b>APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</b></li> </ul>			

CROP	PEST	RATE/ ACRE	COMMENTS
SWEET CORN (7)	Cutworms	4-8 lbs.	(Or 1½ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Seedcorn Maggots	4-8 lbs.	(Or 1½ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	6-8 lbs.	(Or 2½ - 3 oz. per 1000 sq. ft.) Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Corn Earworm	2-2½ lbs.	(Or ¾ - 1 oz. per 1000 sq. ft.) Apply when silks first appear. Repeat application every 7 days if necessary.
	Corn Leaf Aphids	1-2 lbs.	(Or 2/5 - ¾ oz. per 1000 sq. ft.) Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat application, as necessary, every 7 days.
	Grasshoppers, Spider Mites, Flea Beetles	1 lb.	(Or 2/5 oz. per 1000 sq. ft.) Apply as insects occur. Repeat application, as necessary, every 7 days.
	Sap Beetles	2-2½ lbs.	(Or ¾ - 1 oz. per 1000 sq. ft.) Consult local agricultural authorities for proper timing of sprays. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> <li>• Do not make more than 5 foliar applications per season.</li> <li>• To protect bees, do not apply foliarly to corn during the pollen shed period.</li> <li>• Allow 7 days after the last application before grazing or cutting for forage.</li> <li>• Forage may be fed to beef, dairy cattle, and sheep.</li> <li>• NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>			

## FIELD CROPS - REI 24 HOURS

Soil and foliar applications of Diazol 50W 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.

## FIELD CROPS

CROP	PEST	RATE/ ACRE	COMMENTS
HOPS (14)	Aphids, Spider Mites	2 lbs.	Apply as pests occur. Repeat application, as necessary, every 14 days.
	<ul style="list-style-type: none"> <li>• Do not make more than 4 applications per season.</li> <li>• NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		
SUGAR BEETS (14)	Wireworms	6-8 lbs.	Broadcast just before planting. Incorporate into soil 4-6 inches.
	<ul style="list-style-type: none"> <li>• Do not apply more than 8 lbs. of this product to the soil per season.</li> </ul>		
	Aphids, Beet Leafhopper, Dipterous Leafminer	¾-1 lb.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	Grasshoppers	1 lb.	Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> <li>• Do not make more than 5 applications per season.</li> <li>• Sugarbeet tops may be fed to beef and dairy animals.</li> <li>• NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the supplemental labeling entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>			

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**ORNAMENTAL STATEMENT**

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

**INSECT CONTROL ON ORNAMENTALS GROWN OUTDOORS IN NURSERIES - REI 12 HOURS**

CROP	PEST	RATE	COMMENTS
ARBORVITAE, AZALEA, BIRCH, BOXWOOD, CAMELLIA, CARNATION, CHRYSANTHEMUM, CRAB APPLE, DOGWOOD, DOUGLAS FIR, ELM, EUONYMUS, GLADIOLI, HAWTHORN, HOLLY, HONEY LOCUST, HONEYSUCKLE, JUNIPER, LILAC, LILY, LOCUST, MAPLE, MARIGOLD, OAK, PANSY, PETUNIA, PINE, ORNAMENTAL PLUM, POPLAR, RHODODENDRON, ROSE, SCOTCH PINE, SPIREA, SPRUCE, SYCAMORE, WAX PLANT (Hoya), WILLOW, YELLOWWOOD, and YEW	Aphids, Bagworms, Carnation Bud Mite, Carnation Shoot Mite, Clover Mite, Cyclamen Mite, Dipterous Leafminer, European Pine Shoot Moth, European Red Mite, Flea Beetles, Holly Bud Moth, Leafhoppers, Obscure Root Weevil, Omnivorous Leafminer, Privet Mite, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mite, Juniper Webworm, Whiteflies	½ oz. per 3 gals. water or 1 lb. per 100 gals. of water	Apply the recommended rates. Spray when listed pests first appear. Try to spray underside of leaves and penetrate dense foliage. Repeat as necessary.
	Apple-and-Thorn Skeletonizer, Cotoneaster Webworm, European Pine Sawfly, Fall Webworm, Hemlock Chermes, Oak Looper, Obliquebanded Leafroller, Pear Slug, Tent Caterpillar	1 ½ oz. per 3 gals. of water or 3 lbs. per 100 gals. of water	
	Mimosa Webworm	½ oz. in 3 gals. of water or 1 lb. in 100 gals. of water	Apply as a thorough foliar spray when adults first appear. Try to spray underside of leaves and penetrate dense foliage. Make a second and third application at 4 - 5 week intervals.
	<ul style="list-style-type: none"> <li>Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur.</li> <li>NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.</li> </ul>		

**MUSHROOM HOUSES**

Mushroom flies (PHORIDS and SCIARIDS): Mix 4 to 5 lbs. of product in 50 gals. of water and spray on outside and inside walls, floors, and sideboards of mushroom houses after compost has been pasturized by heating. Also spray over the plastic covering the beds and trays after spawning. Note: Do not spray the compost. To avoid illegal residues, do not apply more than 3 applications to mushroom houses per crop.

**SEED TREATMENT - PLANTER-BOX TREATMENT**

In the planter box, mix with seed as a dry mixture. Stir slightly, using a mixing stick. DO NOT MIX WITH BARE HANDS. Treat only those seeds needed for immediate use. Minimize the interval between treatment between planting. Do not store excess seed beyond planting time. Expose treated seeds may be hazardous to birds and other wildlife. Dispose of excess treated seed by burial away from bodies of water.

Note: If seed has not been treated with a fungicide, use an EPA registered fungicide in combination with product at rates indicated on the fungicide package. Failure to use a fungicide may result in injury to the seed. If the seed treatment increases the friction between seeds sufficiently to reduce the rate of delivery through the planter, 1/2 oz. of graphite per bushel of seed should be added as a drill lubricant. Adjust the planter to give the required rate of seed delivery with the treated seed. Treated seed must not be used for or mixed with food or animal feed, or processed for oil.

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**Corn:** Seedcorn beetle: Mix 3 oz. per bushel of seed as a dry mixture in the planter box as a seed treatment prior to planting.

**Corn, Succulent Peas, and Succulent Beans:** Seedcorn maggot: Mix 1/2 oz. per bushel of seed as a dry mixture in the planter box as a seed treatment prior to planting.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Store in a dry place.

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

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

In case of minor spills, follow all precautions indicated above and cleanup immediately. Sweep up and dispose of wastes and broken or empty containers in a landfill approved for pesticide use.

#### CHEMIGATION STATEMENT

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

To ensure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for 5 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 nonuniform distribution of treated water.

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

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

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

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

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

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

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

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

#### CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

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

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

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

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

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

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

**SPRINKLER CHEMIGATION**

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

**Operating instructions**

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of Diazol 50W 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 Diazol 50W to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if Diazol 50W 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.

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

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

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

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

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

**WARRANTY STATEMENT**

MAKHTESHIM-AGAN OF NORTH AMERICA warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MAKHTESHIM-AGAN OF NORTH AMERICA. In no case shall MAKHTESHIM-AGAN OF NORTH AMERICA be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except as expressly provided herein, MAKHTESHIM-AGAN OF NORTH AMERICA makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at MAKHTESHIM-AGAN OF NORTH AMERICA's election, the replacement of this product.