

RM13

100-460

509257

JUN 28 1996

Ms. Carolyn Bussey  
Ciba-Geigy Corporation  
Ciba Plant Protection  
P.O. Box 18300  
Greensboro, NC 27419-8300

Dear Ms. Bussey:

Subject: Clarification of Blueberry/Fire Ants directions for consistency with D.z.n diazinon AG500 & AG600 WBC; Revisions per Agency letter dated December 12, 1995 D.z.n diazinon 50W EPA Reg. No. 100-460 Your submission dated June 4, 1996

The labeling referred to above, submitted in connection with a registration under FIFRA section 3(c)(7)(a), is acceptable and a stamped copy is enclosed for your records.

The Agency recommends the following minor revisions at the next label printing:

- a) For the specific directions tables in the Fruit and Nut Crops and the Vegetable crops sections, revise the heading **Pest to Pests**, since there are often more than one mentioned and the other use sites refer in the plural to **Insects or Pests**.
- b) In the Fruit and Nut Crops **Timing/Special Directions**, add a comma between "days" and "if necessary" wherever this appears in this section.
- c) For consistency with your simplified **Timing/Special Directions** on D.z.n Diazinon AG600 WBC for control of Mole Crickets on Vegetable Crops (Beets, Broccoli, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Collards, Endive, Kale, Lettuce, Mustard, Peppers, Radishes, Rutabagas, Tomatoes, and Turnips), you may want to replace the current text with:

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One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.

- d) In the directions for Insect Control on Ornamentals, add "Repeat as necessary." after "... penetrate dense foliage."
- e) For consistency with your other labels, you may want to revise "If waterfowl, i.e., ducks or geese," to "If waterfowl (ducks or geese)" in the Lawn Pest Control Precautions.
- f) For consistency with your other labels, you may want to revise "if waterfowl, i.e., ducks or geese," to "if waterfowl (ducks or geese)" in the Environmental Hazards text on both the container label and the booklet label.

Sincerely,

George T. LaRocca  
Product Manager (13)  
Insecticide Rodenticide Branch  
Registration Division (7505C)

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3/27

**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.

**ACCEPTED**

JUN 28 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 100-460

DENSITY  
3524 g/mL  
Loose

**D·z·n<sup>®</sup>**

**diazinon 50W**

**INSECTICIDE**

This product must not be used on golf courses and sod farms.

For control of certain insects and mites on fruits, nuts, vegetables, field crops, lawns, and ornamentals.

Active Ingredient: Diazinon: O,O-Diethyl O-(2-iso-propyl-6-methyl-4-pyrimidinyl) phosphorothioate . . . 50%

Inert Ingredients: 50%

Total: 100%

D-z-n diazinon 50W is a wettable powder.

EPA Reg. No. 100-460

EPA Est. 100-AL-1

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements on left panel. For directions for use and specific pests see booklet in bottom flap of bag.

**Five Pounds  
Net Weight**

**ciba<sup>™</sup>**

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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FOR SPECIFIC DIRECTIONS FOR USE, SEE BOOKLET IN BOTTOM FLAP OF BAG.

D-z-n diazinon 50W is registered for use in or on:

Almonds (CA only)	Cabbage	Dewberries (CA, OR, WA only)	Loganberries (CA, OR, WA only)	Peppers	Sheep
Apples	Caneberries (CA, OR, WA only)	Endive (Escarole)	Melons	Pineapple	Spinach
Apricots	Carrots	Fly control in barns and animal sleeping quarters*	Mushroom Houses	Plums	Squash
Beans (Lima, Pole and Snap) (succulent only)	Cauliflower	Grapes	Mustard	Potatoes**	Strawberries
Beets	Cherries	Hops	Nectarines	Prunes	Sugar Beets
Blackberries (CA, OR, WA only)	Chinese Broccoli	Kale	Non-crop Areas	Radishes	Sweet Potatoes
Blueberries	Chinese Cabbage (Bok Choy and Napa)	Lawns (Excludes Golf Courses and Sod Farms)	Onions	Raspberries (CA, OR, WA only)	Sweet Corn
Boysenberries (CA, OR, WA only)	Collards	Lettuce	Ornamentals	Rutabagas	Swiss Chard
Broccoli	Cranberries		Parsley	Seed Treatment, Planter Box (Corn and Succulent Peas and Beans)	Tomatoes
Brussels Sprouts	Cucumbers		Parsnips		Turnips
			Peaches		Turnip Tops
			Pears		Walnuts (CA only)
			Peas (succulent only)		

\*except dairy barns, milk rooms, and poultry houses

\*\*except commercially-grown potatoes which will be hand-harvested

#### 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.

#### Conditions of Sale and Warranty

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, 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 Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect-damages resulting from the use or handling of this product.** Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

#### DIRECTIONS FOR USE

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

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.**

#### General Information

D-z-n diazinon 50W is a wettable powder which should be mixed with sufficient water to assure thorough coverage unless otherwise noted in the **Directions for Use**.

Best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

Since D-z-n diazinon 50W is a wettable powder formulation, constant agitation is necessary during application.

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

Do not use on food crops grown in greenhouses.

#### 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 D-z-n diazinon 50W, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See **Practical Treatment** section of this label.

#### Chemigation

Refer to supplemental labeling booklet in bottom flap of bag for chemigation use directions for cranberries. Do not apply this product to cranberries through any type of irrigation system unless the specific directions for chemigation are followed.

Do not apply this product to any other crop or site through any type of irrigation system.

#### Storage and Disposal

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

**Pesticide:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If pesticide, spray mixture, or rinsates cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container:** 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. Stay out of smoke from burning container.

For minor spills, leaks, etc. follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

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## 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, and clothing. Avoid contamination of food and feed. Keep out of reach of domestic animals. Food utensils, such as teaspoons or measuring cups, must not be used for food purposes after use in measuring pesticides. Do not use on humans or pets. Do not contaminate ornamental fish ponds. Be sure to read and follow the "Work Safety Rules" and Worker Protection precautions that appear in the enclosed booklet.

#### Statement of Practical Treatment

This product is an organophosphate.

**If swallowed:** Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

**If inhaled:** Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

**If on skin:** Remove contaminated clothing and wash affected areas thoroughly with soap and water. Get medical attention.

**If in eyes:** Flush eyes with plenty of water. Call a physician if irritation persists.

**Note to Physician:** 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.

#### 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. 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 and waterfowl. Avoid overlapping of sprays. On lawns, if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of 1/4 inch of water immediately after applying this product. Stop irrigation 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 wash waters.

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.

D-z-n® trademark of Ciba-Geigy Corporation

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Ciba Crop Protection

Ciba-Geigy Corporation

Greensboro, North Carolina 27419

CGA 1L118H

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RECD EPA/OPP/DPD2

**RESTRICTED USE PESTICIDE**

DUE TO AVIAN AND AQUATIC TOXICITY  
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PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE  
USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

**INSECTICIDE**

For control of certain insects and mites on fruits,  
nuts, vegetables, field crops, lawns, and ornamentals. For specific pests, refer to use directions.

This product must not be used on golf courses  
and sod farms.

Active Ingredient: Diazinon: O,O-Diethyl O-  
(2-isopropyl-6-methyl-4-pyrimidinyl)  
phosphorothioate . . . . . 50%

Inert Ingredients: . . . . . 50%

Total: . . . . . 100%

D-z-n diazinon 50W is a wettable powder.

EPA Reg. No. 100-460

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and  
directions for use inside booklet. CGA 1L66Q 046

**ACCEPTED**

JUN 28 1996

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 100-460

**D·z·n**<sup>®</sup>

**diazinon 50W**

**ciba**<sup>™</sup>

**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.

**Conditions of Sale and Warranty**

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, 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 Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

**DIRECTIONS FOR USE**

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

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

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry 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. Exception: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

- Coveralls
- Waterproof gloves
- Shoes plus socks

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow entry into treated areas until sprays have dried. Do not permit children or pets to go onto sprayed grass until spray has completely dried.

CGA 130-573N

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## D·z·n® diazinon 50W

7/27

**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.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.**

### General Information

D·z·n® diazinon 50W is a wettable powder which should be mixed with sufficient water to assure thorough coverage, unless otherwise noted in the Directions for Use.

Best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

Since D·z·n diazinon 50W is a wettable powder formulation, constant agitation is necessary during application.

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

Do not use on food crops grown in greenhouses.

### 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 D·z·n diazinon 50W, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See Practical Treatment section of this label.

### CHEMIGATION

#### APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) — CRANBERRIES ONLY

D·z·n diazinon 50W 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 remixed 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, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

#### Sprinkler 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 D·z·n diazinon 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 D·z·n diazinon 50W to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when D·z·n diazinon 50W is used alone or 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 D·z·n diazinon 50W 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.

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D•z•n® diazinon 50W

8/27

Fruit and Nut Crops

REI-24 hours

D•z•n diazinon 50W may be applied using ground or aerial application equipment as specified in the following table. This table also indicates the minimum amount of water that can be used for the various methods of application. The rate of D•z•n diazinon 50W for aerial spray or concentrated spray applied by ground equipment is based on a dilute full cover spray applied to fruit or nut trees with conventional ground equipment at a rate of 300-400 gals. of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. (Note: "lbs." or "lbs. of product" in the directions means pounds of this product, not pounds of active ingredient). If the "Rate" calls for 1 lb. of D•z•n diazinon 50W per 100 gals. of water, this amounts to 3-4 lbs. of product per acre when applied to fruit trees at 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 directions for use for individual crops.

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
Strawberries	20	100	20
Walnuts*	20	100	20

\* CA only

\*\* CA, OR, or WA only

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	PHI*
Almonds	**
Apples	21
Apricots	21
Blackberries	7
Blueberries	7
Boysenberries	7
Cherries	21
Cranberries	7
Dewberries	7
Grapes	28
Loganberries	7
Nectarines	21
Peaches	21
Pears	21
Pineapple	7
Plums	21
Prunes	21
Raspberries	7
Strawberries	5
Walnuts	45

\* PHI = Pre-Harvest Interval or the number of days between the last application and harvest.

\*\* = Dormant spray only.

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

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D·z·n® diazinon 50W

9/27

Crop	Pest	Rate	Timing/Special Directions
Almonds (CA 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	1-1 1/2 lbs. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a single dormant spray. Do not apply more than 6 lbs. of product or 9 gals. of oil per acre.
Apples	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. + 2 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant or delayed dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.
	Leafhoppers	1 lb. in 100 gals. of water	Apply, beginning at petal fall, as infestations develop. Repeat application in 14 days if necessary.
	Eyespotted Bud Moths, Fruit Tree Leafrollers, Mealybugs	1 lb. in 100 gals. of water	Make 3 cover sprays, beginning at pink stage. Do not repeat application closer than 14 days.
	Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Spider Mites	1 lb. in 100 gals. of water	Make 3 cover sprays beginning when infestations occur. Do not repeat applications closer than 14 days. <b>Note:</b> 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 Maggots	1 lb. in 100 gals. of water	Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. <b>Note:</b> Diazinon may not control organophosphate-resistant apple maggots.
	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. in 100 gals. of water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Apricots	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. + 2 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.
	Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Olive Scale Crawlers	1/2 lb. + 1 1/2 gals. of light medium horticultural oil in 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 per application.
	Apricot Mealybugs	1 lb. in 100 gals. of water	Apply as a cover spray from petal fall to June. Allow 14 days between applications.

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Blueberries	Cranberry Fruitworms, Cherry Fruitworms, Blueberry Maggots, Aphids, Thrips, Two-spotted Spider Mites	1 lb./100 gals. of water	Apply as infestations occur. Allow 14 days between applications.
	Fire Ants	1 lb. in 100 gals. of water	To aid in the control of fire ants, slowly apply 1 gal. of diluted mixture over and 6 inches to each fire ant mound. Apply gently to avoid disturbing ants. Use equipment capable of delivering the diluted product as a gentle rain. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness. <b>Note:</b> For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours.

Notes: (1) Do not apply more than 2 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

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D·z·n® diazinon 50W

10/27

Crop	Pest	Rate	Timing/Special Directions
Caneberries (CA, OR, and WA only) (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries)	Leafhoppers, Thrips, Aphids, Two-Spotted Spider Mites, Raspberry Fruitworms	2 lbs./A in a minimum of 100 gals. of water (200 gals. of water maximum)	Apply as insects occur. Repeat application after 14 days if necessary. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.  For raspberry fruitworms, make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mites	2-4 lbs./A in a minimum of 100 gals. of water	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 Borers (Raspberry Root Borers)	4 lbs./A in a minimum of 100 gals. of water	Apply as a drench to the crown and lower canes in the spring before buds break.
Cherries	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	1¼ lbs. + 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 4 lbs. of product or 6 gals. of oil per acre.
	Eyespotted Bud Moths, Fruit Tree Leafrollers	1 lb. in 100 gals. of water	Apply as infestations occur, beginning at petal fall. Repeat application after 7 days if necessary.
	Leafhoppers	1 lb. in 100 gals. of water	Make 3-4 applications, beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.
	Cherry Fruitflies	½-1 lb. in 100 gals. of water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10-day intervals.
	Black Cherry Aphids	1 lb. in 100 gals. of water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.
	San Jose Scale Crawlers	1 lb. in 100 gals. of water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mites	½-1 lb. in 100 gals. of water	Apply as a single supplemental spray to trees after harvest.

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

Cranberries	Blackheaded Fireworms ( <i>Rhopobota naevana</i> )	4 lbs.	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 Tipworms	4 lbs.	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.
	Cranberry Fruitworms	4-6 lbs./A	Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management advisor. Repeat application every 14 days as needed. A maximum of 4 applications per season is permitted for the 6 lb. rate. A maximum of 6 applications per season is permitted for the 4 lb. rate.

Notes: (1) This product may be applied to cranberries via ground, aerial, or sprinkler irrigation. For ground application, apply the product in a minimum of 15 gals. of water per acre, for aerial application, a minimum of 20 gals. of water per acre, for chemigation up to 400 gals. of water per acre. Refer to the Chemigation section of this label for specific chemigation directions. (2) Do not apply more than 24 lbs. of product per acre per season. (3) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

Grapes	Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafrollers, Omnivorous Leafrollers, Aphids, Spider Mites	1-2 lbs./A in a minimum of 100 gals. of water (200 gals. of water maximum)	Apply as a thorough cover spray when pest appears. Repeat application after 7 days if necessary.
	<i>Drosophila</i> spp.	6 oz./A in a minimum of 100 gals. of water (300 gals. of water maximum)	Apply as a thorough cover spray at 7-day intervals.

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

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Crop	Pest	Rate	Timing/Special Directions
Nectarines	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, European Red Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. + 2-3 gals. of dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.
	Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. of water	Apply as infestations occur. Repeat application after 7 days if necessary.
	Peach Twig Borers, Parlatoria Scale	1 lb. + 1 gal. light medium summer horticultural oil in 100 gals. of water	Apply at petal fall. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre.
	Olive Scale Crawlers	1/2 lb. + 1 1/2 gals. light medium horticultural oil in 100 gals. of 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 Fruitmoths	1 lb. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10 to 15-day intervals. Time the last application to peak adult flight.

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Peaches	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. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.
	Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Peach Twig Borers, Parlatoria Scale	1 lb. + 1 gal. light medium summer horticultural oil in 100 gals. of water	Apply at petal fall. Do not apply more than 4 lbs. of product or 4 gals. of oil per acre.
	Olive Scale Crawlers	1/2 lb. + 1 1/2 gals. light medium horticultural oil in 100 gals. of 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 Moths	1 lb. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10 to 15-day intervals. Time the last application to peak adult flight.
	Peach Twig Borers	1 lb. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between applications.
	Leafhoppers	1 lb. 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 1/2-2 lbs. 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.

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

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Crop	Pest	Rate	Timing/Special Directions
Pears	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. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.
	Pear Psylla	1/2-1 lb. in 100 gals. of water	Apply as a cover spray at pre-pink stage. Make 1-2 additional applications during the first and second cover sprays, if necessary. Allow at least 14 days between applications.
	Tentiform Leafminers, Mealybugs	1 lb. in 100 gals. of water	Make 3 cover sprays, beginning in April. Allow at least 14 days between applications.
	Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Spider Mites	1 lb. in 100 gals. of water	Make 3 cover sprays, beginning as infestations occur. Allow at least 14 days between applications. Note: Mites will be suppressed if diazinon is used in this regular cover spray program.
	Apple Maggots	1 lb. in 100 gals. of water	Make 3 cover sprays when flies are active and laying eggs. Allow at least 14 days between applications. Note: Diazinon will not control organophosphate-resistant apple maggot.
	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. in 100 gals. of water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Pineapple	Pineapple Mealybugs	2 lbs./A in 200-500 gals. of water	Repeat application as necessary every 28 days, up to a maximum of 8 applications. Do not apply within 7 days of harvest or illegal residues may occur.
Plums	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. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. 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. of water.
	Brown Mites, Clover Mites, European Red Mites	1 lb. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb. in 100 gals. of water	

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Prunes	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. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. For late April or May applications, mix diazinon with 1 gal. of light medium summer horticultural oil per 100 gals. of water.
	Brown Mites, Clover Mites, European Red Mites	1 lb. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb. in 100 gals. of water	

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

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Crop	Pest	Rate	Timing/Special Directions
Strawberries	Aphids, Two-Spotted Spider Mites	1 lb. in 100 gals. of water per acre	Apply as pests occur. Repeat application, if necessary, after 7 days.
	Cyclamen Mites	2 lbs. 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	2 lbs./A	Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
	Strawberry Leafrollers	¾-1 lb. in 100 gals. of water	Apply 200 gals. of spray per acre when blossoms show color.

Notes: (1) Do not make more than 3 foliar applications per season. (2) Do not apply more than 2 lbs. of product per acre per application and no more than 8 lbs. of product per acre per season. (3) Allow a minimum of 5 days between the last application and harvest.

Walnuts (CA only)	Aphids, Spider Mites	2 lbs. in 100 gals. of water per acre	Apply as a foliar spray as needed. Repeat application in 14 days if necessary. Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open or illegal residues may occur.
	Codling Moths, Scale Crawlers, Walnut Caterpillars	6 lbs. in 100 gals. of water per acre	

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Vegetable Crops

REI - 24 hours

For foliar or soil applications, D•z•n diazinon 50W should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. D•z•n diazinon 50W may be applied aerially or by ground application as specified in the following table. The specific amount of product to be used appears under the separate directions for use for each crop.

Crop	Ground Application		Aerial Application Minimum Gals./Acre
	Minimum Gals./Acre	OR Minimum Gals./1,000 Sq. Ft.	
Beans (Lima, Pole, and Snap) (succulent only)	10	2	5
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
Casabas	5	1	5
Cauliflower	10	2	5
Chinese Broccoli	10	2	5
Chinese Cabbage	10	2	5
Chinese Mustard	10	2	5
Collards	10	2	5
Crenshaws	5	1	5
Cucumbers	5	1	5
Endive (Escarole)	10	2	5
Honeydew Melons	5	1	5
Kale	10	2	5
Lettuce (Head and Leaf)	10	2	5
Muskmelons	5	1	5
Mustard	10	2	5
Onions (Bulb and Green)	10	2	5
Parsley	10	2	5
Parsnips	10	2	5
Peas (succulent only)	10	2	5
Peppers	10	2	5
Persian Melons	5	1	5
Potatoes (Irish) *	10	2	5
Radishes	10	2	5
Rutabagas	10	2	5
Spinach	10	2	5
Squash, Summer	5	1	5
Squash, Winter	5	1	5
Sweet Corn	20	4	5
Sweet Potatoes	10	2	5
Swiss Chard	10	2	5
Tomatoes	10	2	5
Turnips	10	2	5
Watermelons	5	1	5

\* Do not use on commercially grown potatoes which will be hand-harvested.

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season.

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Pre-Harvest Intervals (PHI\*) for Foliar Applications

Crop	PHI* (Days)
Beans (Lima, Pole, and Snap)	7
Beets, Red (Table)	14
Broccoli	7
Brussels Sprouts	7
Cabbage	21
Cantaloupes	3
Carrots	14
Casabas	3
Cauliflower	7
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Mustard	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	14
Honeydew Melons	3
Kale	10
Lettuce (Head and Leaf)	14
Muskmelons	3
Mustard	10
Onions (Bulb and Green)	14
Parsnips	14
Peas	7
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radishes	14
Rutabagas	14
Spinach	14
Squash, Summer	7
Squash, Winter	3
Sweet Corn	7
Swiss Chard	14
Tomatoes	1
Turnips (Roots and Tops)	14
Watermelons	3

\*PHI = Pre-Harvest Interval or the number of days between the last application and harvest.

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 peas or beans if these crops or weeds in the treatment area are in bloom, or to corn during the pollen shed period.

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Crop	Pest	Rate	Timing/Special Directions
Beans (Lima, Pole, and Snap) (succulent only)	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers	1-1½ lbs./A or 2/5-3/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.
	Cucumber Beetles	½-¾ lb./A or 1/5-2/10 oz./ 1,000 sq. ft.	Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. Make cucumber beetle application in 100 gals. of water per acre. Note: Diazinon will not control organophosphate-resistant leafminers.
	Leafhoppers, Spider Mites	1 lb./A or 2/5 oz./1,000 sq. ft.	Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.
Beets, Red (Table)	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting, and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½-1 lb./A or 1/5-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Broccoli	Root Maggots	4-8 lbs./A or 1½-2¼ oz./ 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 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	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	½-1 lb./A or 1/5-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with 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.

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Crop	Pest	Rate	Timing/Special Directions
Brussels Sprouts	Root Maggots	4-6 lbs./A or 1½-2¼ oz./ 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 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.  <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms	½-1 lb./A or ⅓-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 7 days of harvest or illegal residues may occur.
Cabbage	Root Maggots	4-6 lbs./A or 1½-2¼ oz./ 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 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.  <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	½-1 lb./A or ⅓-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 21 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

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Crop	Pest	Rate	Timing/Special Directions
Carrots	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Carrot Rust Fly	4 lbs./A or 1½ oz./1,000 sq. ft.	Apply as a drench to the seed furrow at planting.
	Aphids	1 lb./A or 2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications.  Do not apply within 14 days of harvest, or illegal residues may occur.
Cauliflower	Root Maggots	4-8 lbs./A or 1½-2¼ oz./ 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 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	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	½-1 lb./A or 1/5-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with 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	½-1 lb./A or 1/5-2/5 oz./1,000 sq. ft.

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Crop	Pest	Rate	Timing/Special Directions
Collards	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Cabbagebugs, Corn Earworms	½-1 lb./A or 1/5-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest or illegal residues may occur.
Cucumbers	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms	1 lb./A or 2/5 oz./1,000 sq. ft.	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.
Endive (Escarole)	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate 4-8 inches into soil.
	Aphids, Dipterous Leafminers	½-1 lb./A or 1/5-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications.  Do not apply within 14 days of harvest.  Note: Diazinon will not control organophosphate-resistant leafminers.
Kale	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Cabbagebugs, Corn Earworms	½-1 lb./A or 1/5-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, a minimum of 7 days between applications.  Do not apply within 10 days of harvest or illegal residues may occur.

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Crop	Pest	Rate	Timing/Special Directions
Lettuce (Head and Leaf)	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½-1 lb./A or ⅓-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest.  Note: Diazinon will not control organophosphate-resistant leafminers.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, and Hybrids of these) and Watermelons	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	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	½-1½ lbs./A or ⅓-2/5 oz./1,000 sq. ft.	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	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworms	½-1 lb./A or ⅓-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest.  Note: Diazinon will not control organophosphate-resistant leafminers.
Onions (Bulb and Green)	Onion Maggots	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and mix into the top 3-4 inches of soil. (See Soil Incorporation Note.)  Note: Diazinon will not control organophosphate-resistant onion maggots.
	Onion Thrips	1 lb./A or 2/5 oz./1,000 sq. ft.	Apply as thrips appear. Repeat after 7 days, if necessary. Do not make more than 3 applications per season.  Do not apply within 14 days of harvest or illegal residues may occur.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

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Crop	Pest	Rate	Timing/Special Directions
Parsley	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Parsnips	Aphids, Flea Beetles, Dipterous Leafminers	½-1 lb./A or 1/5-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 14 days of harvest or illegal residues may occur.  Note: Diazinon will not control organophosphate-resistant leafminers.
Peas (succulent only)	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Aphids, Dipterous Leafminers	¾-1 lb./A or 3/10-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.  Vines and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 7 days following treatment if forage is to be cut for hay.  Note: Diazinon will not control organophosphate-resistant leafminers.
Peppers	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers	½ lb./A or 1/5 oz./1,000 sq. ft.	Apply as insects appear. Repeat application after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within 5 days of harvest, or illegal residues may occur.  Note: Diazinon will not control organophosphate-resistant leafminers.
Potatoes	Cutworms (Surface and Subterranean)	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Southern Potato Wireworms (Southeastern U.S.)	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	For potatoes grown on mineral soils in the Southeast, apply prior to planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.
	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	½-¾ lb./A or 1/5-3/10 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.  Note: Diazinon will not control organophosphate-resistant leafminers.
	Banded Cucumber Beetles, Leafhoppers, Southern Armyworms	¾-1 lb./A or 3/10-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.

Note: Do not use on commercially grown potatoes which will be hand-harvested.

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Crop	Pest	Rate	Timing/Special Directions
Radishes	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 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./A or ⅕-⅔ oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 3 times, with a minimum of 7 days between applications.  Do not apply within 14 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Rutabegas	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 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./A or ⅕-⅔ oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 14 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Spinach	Aphids, Dipterous Leafminers	½-1 lb./A or ⅕-⅔ oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 14 days of harvest.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Squash, Summer	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	½-1 ½ lbs./A or ⅕-⅔ oz./1,000 sq. ft.	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.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Squash, Winter	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	½-1 ½ lbs./A or ⅕-⅔ oz./1,000 sq. ft.	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.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

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Crop	Pest	Rate	Timing/Special Directions
Sweet Corn	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Seed Corn Maggots	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Corn Earworms	2-2½ lbs./A or ¾-1 oz./1,000 sq. ft.	Apply when silks first appear. Repeat application every 7 days, up to a maximum of 5 applications, if necessary.
	Corn Leaf Aphids	1-2 lbs./A or 2/5-¾ oz./1,000 sq. ft.	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat in 7 days, if necessary. Do not make more than 5 applications per season.
	Grasshoppers, Spider Mites, Fleabeetles	1 lb./A or 2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat if necessary, but do not make more than 5 applications per season.
	Sap Beetles	2-2½ lbs./A or ¾-1 oz./1,000 sq. ft.	Consult local agricultural authorities for proper timing of application. Repeat application in 7 days, if necessary. Do not make more than 5 applications per season.

Notes: (1) To protect bees, do not apply foliarly to corn during the pollen shed period. (2) Allow a minimum of 7 days between the last application and grazing or cutting for forage. (3) Corn may be picked 7 days after the last application.

Sweet Potatoes	Wireworms, Flea Beetles	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Swiss Chard	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Corn Earworms, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbagebugs	½-1 lb./A or 1/5-2/5 oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 14 days of harvest or illegal residues may occur.
Tomatoes	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½ lb./A or 1/5 oz./1,000 sq. ft.	Apply as insects appear. Repeat application after 7 days, if necessary. 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	¾-1 lb./A or 3/10-2/5 oz./1,000 sq. ft.	Note: Diazinon will not control organophosphate-resistant leafminers.
	Vinegar Flies ( <i>Drosophila</i> spp.)	½-1 ½ lbs./A or 1/5-3/5 oz./1,000 sq. ft.	

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Crop	Pest	Rate	Timing/Special Directions
Turnips (Roots and Tops)	Cutworms	4-8 lbs./A or 1½-3 oz./1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs./A or ¾ oz./1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs./A or 2¼-3 oz./1,000 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./A or 1½-2½ oz./1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 14 days of harvest or illegal residues may occur.  Note: Diazinon will not control organophosphate-resistant leafminers.

**Mushroom Houses**

**Mushroom flies (Phorids and Sclerids)**

Mix 4-5 lbs. of D·z·n diazinon 50W in 50 gals. of water and spray on outside and inside walls, floors and sideboards of mushroom houses after compost has been pasteurized 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, minimizing the interval between treatment and planting. Do not store excess treated seed beyond planting time. Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of excess treated seed by burial away from bodies of water.

Notes: (1) If seed has not been treated with a fungicide, use an EPA-registered fungicide combination with D·z·n diazinon 50W at rates indicated on the fungicide package. Failure to use a fungicide may result in injury to the seed. (2) If the seed treatment increases the friction between seeds sufficiently to reduce the rate of delivery through the planter, ½ oz. of graphite per bushel seed should be added as a drill lubricant. Adjust the planter to give the required rate of seed delivery with the treated seed. (3) Treated seed must not be used for or mixed with food or animal feed or processed for oil.

**Corn**

Seedcorn Beetle: Mix 3 oz. per bushel of seed.

**Corn, Succulent Peas, and Succulent Beans**

Seedcorn Maggot: Mix ½ oz. per bushel of seed.

**Field Crops**

**REI-24 hours**

Apply soil and foliar applications of D·z·n diazinon 50W 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:

**Pre-Harvest Intervals (PHI\*) For Foliar Applications**

Crop	PHI*
Hops	14
Sugar Beets	14

\*PHI = Pre-Harvest Interval or the number of days between the last application and harvest.

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Crop	Pest	Rate	Timing/Special Directions
Hops	Aphids, Spider Mites	2 lbs./A	Apply as pests occur. Repeat applications, if necessary, in 14 days. Do not make more than 4 applications per season or apply within 14 days of harvest, or illegal residues may occur.
Sugar Beets	Wireworms	6-8 lbs./A	Broadcast just before planting and immediately incorporate into the top 4-6 inches of soil. Do not apply more than 8 lbs. of this product to the soil per season.
	Beet Leafhoppers, Dipterous Leafminers, Aphids	¾-1 lb./A	Apply as insects occur. Repeat application, as necessary, up to 5 times per season, with a minimum of 7 days between applications. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate-resistant leafminers.
	Grasshoppers	1 lb./A	Apply as insects occur. Repeat application, as necessary, up to 5 times per season, with a minimum of 7 days between applications. Do not apply within 14 days of harvest.

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

**Grassland Insects**

**Ditch Banks, Roadsides, Wasteland, Noncrop Areas, Barrier Strips**

Grasshoppers: Apply ¾-1 lb./A in sufficient water or oil to obtain thorough coverage when insects first appear, preferably in the nymphal stage.

Do not graze or use treated grass for food or feed.

**Livestock Insects**

**Sheep "Ticks" (Keds), Lice**

High gallonage, high pressure spray: Mix ½ lb. in 100 gals. of water, and apply at the rate of 1 gal. per animal.

Low gallonage, low pressure spray: Mix 1 lb. in 100 gals. of water. Apply at the rate of 1 qt. per animal.

Sprinkler Can: Mix 1 oz. in 6 gals. of water. Crowd sheep into a small pen and sprinkle 1 qt. of this mixture over the head, neck, top, and side of each sheep. Stir or agitate mixture frequently.

Note: Do not slaughter sheep within 14 days after treatment. Repeat applications as necessary.

**Fly Control in Livestock Structures**

Fly control in barns and animal sleeping quarters (except dairy barns, milk rooms, and poultry houses).

**Residual Sprays:** Remove animals from buildings or corrals prior to treatment and keep animals out for at least 4 hours. Mix 2 lbs. of D•z•n diazinon 50W in 25 gals. of water and apply as an overall spray to ceilings and walls of livestock sheds, calf barns, hog barns, loafing sheds, and other farm buildings, except poultry houses, dairy barns, and milk rooms. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly. Longer residual control may be obtained by increasing the rate to 4 lbs. in 25 gals. of water. Applications should be made to point of runoff. One gal. of the above spray should cover from 350-750 sq. ft. of area, depending on the surface treated. Repeat applications as fly populations warrant.

**Bait Sprays:** Mix the appropriate amount of D•z•n diazinon 50W with 1 lb. of sugar (or 2 cups of syrup or molasses) for the desired application.

For knapsack or similar type sprayer, mix ½ lb. with the sugar in 2½ gals. of water and spot treat areas frequented by flies including cracks, crevices, doorways, around windows, or other areas where flies congregate. Repeat applications as fly populations warrant.

For sprinkling can application, mix 2 oz. with the sugar in 5 gals. of water and sprinkle lightly over the floor in areas frequented by flies. Applications every day or two will generally be required.

Do not contaminate milk, feed, drinking water, or apply to animals or poultry. Do not use in edible product areas of food processing plants or other areas where food is commercially prepared or processed. Do not use in dwellings.

**Insect Control on Ornamentals**

**REI-12 hours**

To control certain insects on Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Crab Apple, Dogwood, Douglas Fir, Elm, Eonymus, Gladiol, Hawthorn, Holly, Honey Locust, Honeysuckle, Juniper, Lilac, Lily, Locust, Maple, Marigold, Oak, Pansy, Petunia, Pine, Ornamental Plum, Poplar, Rhododendron, Rose, Scotch Pine, Spires, Spruce, Sycamore, Wax Plant (Hoya), Willow, Yellowwood, and Yew, apply the recommended rates indicated below. Try to spray underside of leaves and penetrate dense foliage.

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Insects	Amount of D·z·n diazinon 50W to Use	
	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 José, Soft), Thrips, Two-Spotted Spider Mites, Juniper Webworms, Whiteflies	½ oz.	1 lb.
Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, European Pine Sawfly, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars	1½ oz.	3 lbs.

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

Mimosa Webworms: Mix ½ oz. in 3 gals. of water (or 1 lb. in 100 gals. of water) and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4 to 5-week intervals.

**Lawn Pest Control (Excluding Sod Farms and Golf Courses)**

Precautions: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping sprays. If waterfowl, i.e., ducks or geese, can be expected to enter treated area after treatment (except spot treatments), water lawn with at least ¼ inch of water immediately after application; however, stop irrigation before puddling occurs.

To control pests listed below, apply specified rates.

Pests	Rate/1000 sq. ft.		Remarks
	D·z·n diazinon 50W	Water	
Lawn Chinch Bugs	2-3 oz.	3 gals.	Use higher rate for longer residual control and in turf-grass of dense growth such as St. Augustine.
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms, (Lawn Moths), Sowbugs (Pillbugs), Brown Dog Ticks, Chiggers, Fleas	3 oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For digger wasps, apply product at dusk when wasps are not active. For frit flies, mow grass and water well before treatment, but delay application until grass is dry. Note: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery.
Hyperodes Weevils	3 oz.	3 gals.	Treat problem areas in mid-April and again in mid-May.
Millipedes	3 oz.	3 gals.	
Rhodesgrass Scales	3 oz.	3 gals.	Apply when crawlers first emerge.
White Grubs, (Japanese Beetle Larvae, European Chafer, Southern Chafer)	3 oz.	3 gals.	Apply any time between late July and early October.

**Nuisance Pests in Outside Areas**

Pests	Rate/1,000 sq. ft.		Remarks
	Amount of D·z·n diazinon 50W	Water	
Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails (Collembola)	3 oz.	3 gals.	Spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide. To prevent these pests from entering the house, spray a 5-ft. band of ground around the house next to the foundation, and spray the foundation of the house to a height of 2-3 ft. Repeat application as necessary. Note: Do not apply to animals. Do not apply to plants (except tree trunks as noted above) at this nuisance pest rate.
Fire Ants	2 tea-spoons	None	Evenly apply this product in its dry, undiluted state over each fire ant mound.
	1 oz.	5 gals.	Apply 1 gal. of solution to each mound by sprinkling the mound and the immediate surrounding area until wet. Apply gently to avoid distributing ants. Note: For best results, apply in cool weather (60-80°F, or in early morning or late afternoon when the ants are most active. Treat new mounds as they appear.

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## Storage and Disposal

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

**Pesticide:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If pesticide, spray mixture, or rinsates cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container:** 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. Stay out of smoke from burning container.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

## 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, and clothing. Avoid contamination of food and feed. Keep out of reach of domestic animals. Food utensils, such as teaspoons or measuring cups, must not be used for food purposes after use in measuring pesticides. Do not use on humans or pets. Do not contaminate ornamental fish ponds. Be sure to read and follow "Work Safety Rules" and Worker Protection precautions appearing in this booklet.

### Statement of Practical Treatment

This product is an organophosphate.

**If swallowed:** Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

**If inhaled:** Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

**If on skin:** Remove contaminated clothing and wash affected areas thoroughly with soap and water. Get medical attention.

**If in eyes:** Flush eyes with plenty of water. Call a physician if irritation persists.

**Note to Physician:** 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.

### Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

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 Control Statements

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

### 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. 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 and waterfowl. Avoid overlapping of sprays. On lawns, if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of ¼ inch of water immediately after applying this product. Stop irrigation 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 wash waters.

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.

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