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10163-241

10-27-98

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7509C)
410 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

10163-241

Date of Issuance:

OCT 27 1998

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Gowan Diazinon 5F

Name and Address of Registrant (include ZIP Code):

Gowan Company
P.O. Box 5569
Yuma, AZ 85366

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Add the phrase "EPA Reg. No. 10163-241".
 - b. In the Hazards to Humans and Domestic Animals text, revise "tablespoons" to "spoons", since both teaspoons and tablespoons are mentioned in the directions.

Signature of Approving Official:

Date:

OCT 27 1998

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- c. For Apricots, in the Rate column for Olive Scale Crawlers, and for Apricot Mealybugs, for consistency with the rest of the label, revise "per 100 gals." to "in 100 gals."
 - d. In the Lawn Pest Control table, delete the horizontal line in the Remarks column between the pests Deer Ticks and Lone Star Ticks, since the same directions apply to both.
 - e. In the Nuisance Pests in Outside Areas table, delete the pests Deer Ticks and Lone Star Ticks from the 2.5 fl. oz in 3 gals. of water grouping. Add a horizontal line in the pesticide rate and "Water" columns between the pests Deer Ticks and Lone Star Ticks. Add the rate 1/2 fl. oz in 3 gals. of water for Lone Star Ticks. Finally, delete the horizontal line in the Remarks columns and bring the paragraph beginning " To prevent.." up to within one line of the paragraph ending ".. can hide.". These same Remarks apply to all the pest entries.
 - f. Be sure to meet type size requirements for elements of the label with minimum type size requirements.
3. Submit three (3) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

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RESTRICTED USE PESTICIDE
DUE TO AVIAN AND AQUATIC TOXICITY
FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS.

GOWAN DIAZINON 5F

**Water-Based Concentrate
Insecticide**

For control of certain pests on fruits, nuts, vegetables, field crops, lawns, and ornamentals

ACTIVE INGREDIENT: Diazinon:

O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate

INERT INGREDIENTS*

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for use pesticides registered under EPA Reg. No. 10163-241

OCT 27 1998

BY WT.
56.0%
44.0%
TOTAL 100.0%

ACCEPTED
WITH COMMENTS
by EPA Label Office

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

Organophosphate Insecticide

IF SWALLOWED: Call 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 give induce vomiting or give anything by mouth if person is unconscious or convulsing.

IF INHALED: Remove victim to fresh air. If not breathing, apply artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF ON SKIN: Wash promptly with soap and water. Rinse thoroughly. Get medical attention.

IF IN EYES: Rinse eyes with plenty of water. Call a physician if irritation persists.

NOTE TO PHYSICIAN: If ingested, induce emesis or lavage stomach. 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.

FOR EMERGENCY MEDICAL RESPONSE AND HAZARD COMMUNICATIONS ONLY, CALL 1-800-228-5635 X283.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Avoid contamination of food and feed. Food utensils such as tablespoons and measuring cups should not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans, household pets, or livestock. Do not contaminate ornamental fishponds.

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 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, especially waterfowl. Avoid overlapping of sprays. On lawns, if waterfowl (ducks or geese) can be expected in the treated area after treatment (except spot treatment), apply at least 1/4 inch of water immediately after spraying this product; however, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

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

NET CONTENTS _____ GALS.

Gowan

EPA Reg. No. 10163-~~XXX~~ EUR
EPA Est. No. 67545-AZ-1

Gowan Company
P.O. Box 5569
Yuma, AZ 85366-5569

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 (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

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 in farms, forests, nurseries, or greenhouses.

Do not permit children or pets to go onto treated areas until sprays have dried.

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 Gowan Diazinon 5F, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See STATEMENT OF PRACTICAL TREATMENT section of this label.

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

Gowan Diazinon 5F is a water-based concentrate which, when diluted with water according to the directions, is intended for the control of pests of agricultural crops and other plants. Do not use on food crops grown in greenhouses. Do not use in barns or dwellings. Do not use on livestock.

In the directions for use which follow, best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

Note: The California Department of Agriculture has set a 5-day REENTRY period for diazinon on grapes, peaches, and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with

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treated foliage. When a mixture of 2 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 *Gowan Diazinon SF* using sufficient water volume to provide thorough and uniform coverage generally provide the most effective pest control.

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

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

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

MIXING PROCEDURES

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

1. *Gowan Diazinon SF* Alone:

Add 1/2 of the required amount of water to the mix tank. With the agitator running, add *Gowan Diazinon SF* to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the *product* has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

2. *Gowan Diazinon SF* In Tank-Mixtures:

Note: Do not mix *Gowan Diazinon SF* with any formulation of Captan® or Captec® because crop injury may occur.

Gowan Diazinon SF is compatible with most insecticide and fungi

cide products; however, physical compatibility with tank-mix partners should be tested before use. Using a quart jar, add the proportionate amounts of each product to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be readily remixed, the products are compatible.

Once compatibility has been proven, add 1/2 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 *Gowan Diazinon SF* in tank-mixture, observe all directions for use, crop/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.

CHEMIGATION (APPLICATION THROUGH AN IRRIGATION SYSTEM)

Gowan Diazinon SF may be applied alone or in combination with other pesticides registered for application through sprinkler (including center pivot lateral move, end tour side (wheel) roll, traveler, big gun, solid set or hand move) or drip (trickle) irrigation systems (including surface and subsurface). Do not apply this product through any other type of irrigation system. To insure 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 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 Systems Connected to Public Water Systems

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

Sprinkler and Drip (Trickle) Chemigation

- 1. The system must contain a functional check-valve, a vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. Do not use sprinkler chemigation when wind speed favors drift beyond the area intended for treatment.

Operating Instructions

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

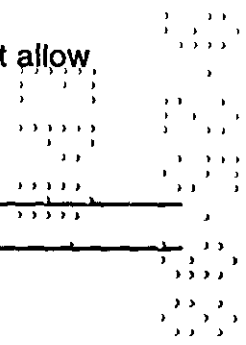
Note: When treatment with *Gowan Diazinon SF* has been completed, further field irrigation over the treated area should be avoided for 48 hours to prevent washing the product off of the crop.

Apply *Gowan Diazinon SF* only in sufficient irrigation water to achieve thorough plant coverage. Excess water will wash the product from the plant, resulting in poor control.

To avoid a hazard to animals, wells, or adjoining crops, do not allow irrigation water to collect or runoff.

FRUIT AND NUT CROPS

REI - 24 Hours



Ground/Aerial Application

Gowan Diazinon SF may be applied using ground or aerial application equipment as specified in Table 1. Table 1 indicates the minimum amount of water that can be used for the method of application. Table 2 lists the preharvest interval (PHI) for each crop.

Table 1

| 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 | 5 | 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 |
| 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.

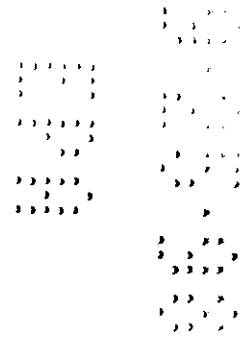


Table 2

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

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

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

** = Dormant spray only.

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

Fruit Trees - Volume of Water and Application Rates

The rate of *govan Diazinon 5P* 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. In no case should the amount of product per acre exceed the maximum amount per acre per application that is specified in the Timing/Special Directions or the Notes for individual crops.

| Crop | Pest | Rate | Timing/Special Directions |
|----------------------|--|---|--|
| Almonds (CA only) | San Jose Scale, Parlatoria Scale | 12 ³ / ₄ -19 fl. oz. + 2-3 gals. dormant oil or 1-1 ¹ / ₂ gals. superior type oil in 100 gals. of water | Apply only as a single dormant spray. Do not apply more than 76 ¹ / ₂ oz. of diazinon or 9 gals. of oil per acre. |
| Apples | Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Plum Curculio | 12 ³ / ₄ fl. oz. in 100 gals. of water | Begin treatment when infestations first occur. Do not repeat applications closer than 14 days. Do not apply after petal fall. |
| | San Jose Scale Crawlers, Forbes Scale Crawlers | 12 ³ / ₄ fl. oz. in 100 gals. of water | Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later. Do not apply after petal fall. |

| Crop | Pest | Rate | Timing/Special Directions |
|--------------------|--|---|--|
| Apples (Cont'd) | 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 | 12¾ fl. oz. + 2 gals. dormant oil or 1-1½ gals. superior type oil in 100 gals. of water | Apply only as a dormant or delayed dormant spray. Do not apply more than 51 fl. oz. of product or 6 gals. of oil per acre per application. |
| | Leafhoppers | 12¾ fl. oz. in 100 gals. of water | Apply at petal fall. Do not apply after petal fall. |
| | Eyespotted Bud Moths, Fruit Tree Leafrollers, Mealybugs | 12¾ fl. oz. in 100 gals. of water | Begin treatment at pink stage. Do not repeat application closer than 14 days. Do not apply after petal fall. |

Notes: (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.
 (2) Do not apply after petal fall.

| Crop | Pest | Rate | Timing/Special Directions |
|----------|--|---|--|
| Apricots | Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers | 12¾ fl. oz. in 100 gals. of water | Apply as infestations occur. Repeat application after 14 days, if necessary. |
| | Olive Scale Crawlers | 6½ fl. oz. + 1½ gals. of light medium horticultural oil per 100 gals. of water | Apply when scale crawlers are present. Do not apply more than 51 fl. oz. of product or 6 gals. of oil per acre per application. |
| | Apricot Mealybugs | 12¾ fl. oz. oz. per 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 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

| Crop | Pest | Rate | Timing/Special Directions |
|--------------|---|---------------|---|
| Blue-berries | Cranberry fruitworms, Cherry fruitworms, Blueberry maggots, Aphids, Thrips, Two-spotted Spider Mites | 25½ fl. oz./A | Apply as infestations occur. Allow 14 days between applications. |
| | Fire Ants | 25½ fl. oz./A | <p>To aid in the control of fire ants, slowly apply 1 gal. of dilute mixture over and 6 inches around 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.</p> <p>Note: For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours.</p> |

Notes: (1) Do not apply more than 25½ fl. oz. of product per acre per application and no more than 127½ fl. oz. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

| Crop | Pest | Rate | Timing/Special Directions |
|---|---|---|---|
| Cane-berries CA, OR, and WA only: Black-berries, Boysen-berries, Dew-berries, Logan-berries, Rasp-berries | Leaf-hoppers, Thrips, Aphids, Two-spotted Spider Mites, Raspberry Fruitworms, Raspberry Sawflies | 25½ fl. oz./A in 100 gals. of water | Apply as insects occur. Repeat application after 14 days, if necessary. Apply in a minimum of 100 gals. of water per acre (200 gals./A maximum). For Raspberry Fruitworms, make one application when blossom buds separate. Make a second application immediately before blossoms open. |
| | Dryberry Mites | 25½-51 fl. oz./A in 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. Apply in a minimum of 100 gals. of water per acre (200 gals./A maximum). |
| | Raspberry Crown Borers (Raspberry Root Borers) | 51 fl. oz./A | Apply in 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. |

Notes: (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 127½ fl. oz. of product per acre per season.
(2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

| Crop | Pest | Rate | Timing/Special Directions |
|----------|---|---|---|
| Cherries | Eyespotted Bud Moths, Fruit Tree Leafrollers | 12 ³ / ₄ fl. oz. in 100 gals. of water | Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days, if necessary. |
| | Leafhoppers | 12 ³ / ₄ fl. oz. in 100 gals. of water | Make 3 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications. |
| | Cherry Fruitflies | 6 ¹ / ₂ -12 ³ / ₄ fl. oz. 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 | 12 ³ / ₄ fl. oz. in 100 gals. of water | Apply as a cover spray when aphids appear. Repeat application after 10 days, if necessary. |
| | San Jose Scale Crawlers | 12 ³ / ₄ fl. oz. in 100 gals. of water | Apply during the pre-pink stage or when crawlers first appear. |
| | Cherry Rust Mites | 6 ¹ / ₂ -12 ³ / ₄ fl. oz. in 100 gals. of water | Apply to trees as a single supplemental spray after harvest. |

Notes: (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

| Crop | Pest | Rate | Timing/Special Directions |
|-------------|--|------------------|--|
| Cranberries | Blackheaded Fireworms (<i>Rhopobota naevana</i>) | 51 fl. oz./A | 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 | 51 fl. oz./A | 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 is permitted. |
| | Cranberry Fruitworms | 51-76½ fl. oz./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 76½ fl. oz. rate. A maximum of 6 applications per season is permitted for the 51 fl. oz. 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 5 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 use water from irrigated or flooded cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA-approved diazinon labels. (3) Do not apply more than 306 fl. oz. of product per acre per season. (4) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

48-16

| Crop | Pest | Rate | Timing/Special Directions |
|--------|--|---|---|
| Grapes | Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leaf-folders, Omnivorous Leafrollers, Aphids, Spider Mites | 12 ³ / ₄ -25 ¹ / ₂ fl. oz./A in a minimum of 100 gals. of water | Apply as a thorough cover spray. Repeat application after 7 days, if necessary. |
| | <i>Drosophila</i> spp. | 4 ³ / ₄ fl. oz./A in a minimum of 100 gals. of water (300 gals. of water maximum) | Apply as a thorough cover spray. Repeat application after 7 days, if necessary. |

Notes: (1) Do not apply more than 25¹/₂ fl. oz. of product per acre per application and no more than 127¹/₂ fl. oz. per acre per season. (2) To avoid illegal residues, allow 28 days between the last application and harvest.

| Crop | Pest | Rate | Timing/Special Directions |
|------------|--|-----------------------------------|---|
| Nectarines | Oriental Fruit Moths | 12¾ fl. oz. 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. |
| | Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers | 12¾ fl. oz. in 100 gals. of water | Apply as infestations occur. Repeat application after 14 days, if necessary. |

Notes: (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

| Crop | Pest | Rate | Timing/Special Directions |
|---------|--|---|---|
| Peaches | Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers | 12¾ fl. oz. in 100 gals. of water | Apply as infestations occur. Repeat application after 14 days, if necessary. |
| | Oriental Fruit Moths | 12¾ fl. oz. 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 | 12¾ fl. oz. in 100 gals. of water | Apply as insects occur in May and June. Allow 7 days between applications. |
| | Leafhoppers | 12¾ fl. oz. in 100 gals. of water | Make 3 applications beginning at petal fall and continuing through the growing season. Allow 7 days between applications. |
| | White Peach Scale | 19-25½ fl. oz. in 100 gals. of water | Apply post-harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation, 2 applications (7 days apart) may be needed. Do not apply before fruit is harvested. |

Notes: (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

2-19

| 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 | 12 ³ / ₄ fl. oz. + 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 | 6 ¹ / ₂ -12 ³ / ₄ fl. oz. 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 | 12 ³ / ₄ fl. oz. in 100 gals. of water | Make 3 cover sprays, beginning in April. Allow at least 14 days between applications. |

| Crop | Pest | Rate | Timing/Special Directions |
|-------------------|---|---|--|
| Pears (Cont'd) | Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Spider Mites | 12¾ fl. oz. 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 | 12¾ fl. oz. 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 maggots. |
| | San Jose Scale Crawlers, Forbes Scale Crawlers | 12¾ fl. oz. 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 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

23-21

| Crop | Pest | Rate | Timing/Special Directions |
|-------|---|---|------------------------------------|
| Plums | Brown Mites (Clover Mites), European Red Mites | 12 ³ / ₄ fl. oz. in 100 gals. of water | Apply, as needed, every 7 days. |
| | Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids | 5 ¹ / ₂ -12 ³ / ₄ fl. oz. in 100 gals. of water | |

Notes: (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

| | | | |
|--------|---|--|------------------------------------|
| Prunes | Brown Mites (Clover Mites), European Red Mites | 12 ³ / ₄ fl. oz. in 100 gals. of water | Apply, as needed, every 7 days. |
| | Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids | 5 ¹ / ₂ -12 ³ / ₄ fl. oz. in 100 gals. of water | |

Notes: (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

| Crop | Pest | Rate | Timing/Special Directions |
|--------------|---|---|---|
| Strawberries | Aphids, Two-spotted Spider Mites | 12 ³ / ₄ fl. oz. in 100 gals. of water per acre | Apply as pests occur. Repeat application, if necessary, after 7 days. |
| | Cyclamen Mites | 25 ¹ / ₂ fl. oz. 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 | 25 ¹ / ₂ fl. oz./A | One to two days before planting, broadcast in sufficient water to obtain even coverage and immediately incorporate into the top 1-2 inches of soil. |
| | Strawberry Leafrollers | 9 ¹ / ₂ -12 ³ / ₄ fl. oz. in 100 gals. of water | Apply 200 gals. of spray per acre when blossoms show color. |

Notes: (1) Do not apply more than 25¹/₂ fl. oz. per acre per application; and no more than 102 fl. oz. of product per acre per season. (2) To avoid illegal residues, allow a *minimum* of 5 days between the last application and harvest.

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| Crop | Pest | Rate | Timing/Special Directions |
|----------------------|---|------------------|---|
| Walnuts (CA only) | Aphids, Spider Mites | 25½ fl. oz./A | Apply as a foliar spray. Repeat application in 14 days, if necessary. |
| | Codling Moths, Scale Crawlers, Walnut Caterpillars | 76½ fl. oz./A | Make ground applications in a minimum of 100 gals. of water per acre. |

Notes: (1) Do not apply more than 76½ fl. oz. of product per acre per application, and no more than 229½ fl. oz. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 45 days between the last application and harvest and do not apply after husks open.

VEGETABLE CROPS

REI - 24 hours

For foliar or soil applications, *Gowan Diazinon 5F* should always be applied as a spray in sufficient water to assure **thorough** coverage of the foliage or soil. *Gowan Diazinon 5F* 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.

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| Crop | Ground Application | | Aerial Application Minimum Gals./Acre |
|--|---------------------------|-----------------------------------|---|
| | Minimum Gals./ Acre | 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 |
| Chinese Radish (CA, FL only) | 10 | 2 | 5 |
| Collards | 10 | 2 | 5 |
| Crenshaws | 5 | 1 | 5 |
| Cucumbers | 5 | 1 | 5 |
| Endive (Escarole) | 10 | 2 | 5 |
| Ginseng | 10 | 2 | - |
| 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 |
| 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 |
| Spinach | 10 | 2 | 5 |
| Squash, Summer | 5 | 1 | 5 |
| Squash, Winter | 5 | 1 | 5 |
| Sweet Corn | 20 | 4 | 5 |
| Sweet Potatoes | 10 | 2 | 5 |

(Cont'd)

| Crop | Ground Application | | Aerial Application Minimum Gals./Acre |
|-------------|---------------------------|---|---|
| | Minimum Gals./ Acre | OR Minimum Gals./1,000 Sq. Ft. | |
| 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.

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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.

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 |
| Chinese Radish | 10 |
| Collards | 10 |
| Crenshaws | 3 |
| Cucumbers | 7 |
| Endive (Escarole) | 14 |
| Ginseng | 30 |
| Honeydew Melons | 3 |
| Kale | 10 |
| Lettuce | 14 |
| Muskmelons | 3 |
| Mustard | 10 |
| Onions (Bulb and Green) | 14 |
| Parsnips | 14 |
| Peas | 7 |
| Peppers | 5 |
| Persian Melons | 3 |
| Potatoes (Irish) | 35 |
| Radishes | 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 to wait 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.

| Crop | Pest | Rate | Timing/Special Directions |
|--|--|----------------------|--|
| Beans (Lima, Pole, and Snap) (succu- lent only) | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers | 12¾-19 fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. |
| | Cucumber Beetles | 9½ fl. oz./A | 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. Make cucumber beetle application in 100 gals. of water per acre. |

| Crop | Pest | Rate | Timing/Special Directions |
|--|------------------------------|--|--|
| Beans (Lima, Pole and Snap) (succulent only) (Cont'd) | Cucumber Beetles (Cont'd) | | Notes: (1) Diazinon will not control organosphosphate-resistant leafminers. (2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom. |
| Beans, Lima (succulent only) | Leafhoppers, Spider Mites | 12 ³ / ₄ fl. oz./A | <p>Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.</p> <p>Do not apply within 7 days of harvest, or illegal residues may occur.</p> <p>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.</p> <p>Note: To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|--------------------------|----------------------|---------------------|---|
| Beets, Red (Table) | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Dipterous Leafminers | 6½-12¾ fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|----------|--------------|-------------------------------------|---|
| Broccoli | Root Maggots | 51-76½ fl. oz./A | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. |
| | | 3¼-6½ fl. oz. per 50 gals. of water | In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 3¼-6½ fl. 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 | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |

| Crop | Pest | Rate | Timing/Special Directions |
|----------------------|---|-------------------|--|
| Broccoli (Cont'd) | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers | 6½-12¾ fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 7 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|------------------|--------------|------------------------------------|--|
| Brussels Sprouts | Root Maggots | 51-76½ fl. oz./A | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. |
| | | 3¼-6½ fl. oz. in 50 gals. of water | <p>In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 3¼-6½ fl. oz. per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.</p> <p>Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.</p> |
| | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |

| Crop | Pest | Rate | Timing/Special Directions |
|---------------------------|---|-------------------|---|
| Brussels Sprouts (Cont'd) | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbage-worms | 6½-12¾ fl. oz./A | 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. |

| Crop | Pest | Rate | Timing/Special Directions |
|---------|--------------|-------------------------------------|--|
| Cabbage | Root Maggots | 51-76½ fl. oz./A | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. |
| | | 3¼ -6½ fl. oz. in 50 gals. of water | <p>In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 3¼-6½ fl. oz. per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.</p> <p>Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.</p> |
| | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |

| Crop | Pest | Rate | Timing/Special Directions |
|---------------------|---|-------------------|--|
| Cabbage (Cont'd) | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers | 6½-12¾ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 21 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers. |

| Crop | Pest | Rate | Timing/Special Directions |
|---------|---------------|-------------------|---|
| Carrots | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids | 12¾ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest or illegal residues may occur. |

| Crop | Pest | Rate | Timing/Special Directions |
|-------------|--------------|------------------------------------|---|
| Cauliflower | Root Maggots | 51-76½ fl. oz./A | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. |
| | | 3¼-6½ fl. oz. in 50 gals. of water | In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 3¼-6½ fl. 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 | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |

| Crop | Pest | Rate | Timing/Special Directions |
|-------------------------|--|-------------------|---|
| Cauliflower (Cont'd) | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers | 6½-12¾ fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 7 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|-------------------------------------|--|------------------------|--|
| Chinese Broccoli | Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers | 6 1/2-12 3/4 fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |
| Chinese Cabbage (Bok Choy and Napa) | Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers | 6 1/2-12 3/4 fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|---|--|------------------|--|
| Chinese Mustard (Gai Choy) | Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers | 6½-12¾ fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |
| Chinese Radish (Japanese Radish or Daikon) (FL and CA only) | Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers | 12¾ fl.oz./A | <p>Mix in a minimum of 100 gals. of water per acre and apply as a foliar spray as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 3 applications per season.</p> <p>Do not apply within 10 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|----------|--|------------------------|--|
| Collards | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25 1/2 fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 75 1/2-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbage- worms, Harlequin Bugs, Corn Earworms | 6 1/2-12 3/4 fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest, or illegal residues may occur. |

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| Crop | Pest | Rate | Timing/Special Directions |
|-----------|--|---|--|
| Cucumbers | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76 ¹ / ₂ -102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms | 12 ³ / ₄ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers. |

| Crop | Pest | Rate | Timing/Special Directions |
|----------------------|------------------------------------|----------------------|---|
| Endive (Escarole) | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Dipterous Leafminers | 6½-12¾ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate-resistant leafminers. |

| Crop | Pest | Rate | Timing/Special Directions |
|---------|--|----------------------|---|
| Ginseng | Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice | 9½-12¾ fl. oz./A | Spray when insects first appear. For heavy insect infestations, use 12¾ fl. oz. Apply by ground equipment, using 10-100 gals. of water per acre. Do not apply more than one application per growing season. Do not apply during flowering of 3 or 4 year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock. |
| Kale | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | 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 |
|------------------|--|----------------------|---|
| Kale (Cont'd) | Aphids, Diamondback Moths, Imported Cabbage- worms, Harlequin Bugs, Corn Earworms | 6½-12¾ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest, or illegal residues may occur. |
| Lettuce | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Dipterous Leafminers | 6½-12¾ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate- resistant leafminers. |

| Crop | Pest | Rate | Timing/Special Directions |
|---|--|----------------------|--|
| Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) and Watermelons | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76½-102 fl. oz./A | 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 | 6½-19 fl. oz./A | 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. |

| Crop | Pest | Rate | Timing/Special Directions |
|---------|---|-------------------|---|
| Mustard | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbage- worms | 6½-12¾ fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|--|------------------|--|--|
| Onions (Bulb and Green), Leeks, Spring Onions or Scallions, Japanese bunching onions, green shallots, green eschalots | Onion Maggots | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. Note: Diazinon will not control organophosphate- resistant onion maggots |
| | Onion Thrips | 12 ³ / ₄ fl. oz./A | Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. |
| | Wireworms | 76 ¹ / ₂ -102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| Parsley | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76 ¹ / ₂ -102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |

| Crop | Pest | Rate | Timing/Special Directions |
|-----------------------------|---|---------------------------|--|
| Parsnips | Aphids, Flea Beetles, Dipterous Leafminers | 6 1/2-12 3/4 fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |
| Peas (succulent only) | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76 1/2-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Dipterous Leafminers | 9 1/2-12 3/4 fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.</p> <p>To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.</p> <p>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.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|--------------------------------------|--|-------------------|---|
| Peas (succulent only) (Cont'd) | Aphids, Dipterous Leafminers (Cont'd) | | Notes: (1) Diazinon will not control organophosphate-resistant leafminers. (2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom. |
| Peppers | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Serpentine Leafminers | 6½-12¾ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. 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. |

| Crop | Pest | Rate | Timing/Special Directions |
|----------|--|----------------------|---|
| Potatoes | Cutworms (Surface and Subterranean) | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Southern Potato Wireworms (South- eastern U.S.) | 51-102 fl. oz./A | For potatoes grown on mineral soils in the Southeast, apply before 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 | 6½-9½ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 35 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate- resistant leafminers. |

| Crop | Pest | Rate | Timing/Special Directions |
|----------------------|---|--|--|
| Potatoes (Cont'd) | Banded Cucumber Beetles, Leafhoppers, Southern Armyworms | 9 ¹ / ₂ -12 ³ / ₄ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. 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.

| | | | |
|----------|---|--|---|
| Radishes | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25 ¹ / ₂ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76 ¹ / ₂ -102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Flea Beetles, Dipterous Leafminers | 6 ¹ / ₂ -12 ³ / ₄ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate- resistant leafminers. |

| Crop | Pest | Rate | Timing/Special Directions |
|-----------|---|------------------------|---|
| Rutabagas | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25 1/2 fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76 1/2-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Flea Beetles, Dipterous Leafminers | 6 1/2-12 3/4 fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|-------------------|------------------------------------|--|--|
| Spinach | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76 $\frac{1}{2}$ -102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Dipterous Leafminers | 6 $\frac{1}{2}$ -12 $\frac{3}{4}$ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate-resistant leafminers. |
| Squash, Summer | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76 $\frac{1}{2}$ -102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |

| Crop | Pest | Rate | Timing/Special Directions |
|-------------------------------|---|----------------------|---|
| Squash, Summer (Cont'd) | Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites | 6½-19 fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 7 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate- resistant leafminers.</p> |
| Squash, Winter | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites | 6½-19 fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 3 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate- resistant leafminers.</p> |

| Crop | Pest | Rate | Timing/Special Directions |
|------------|------------------------|--|--|
| Sweet Corn | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Seed Corn Maggots | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 2 inches of soil. |
| | Wireworms | 76 $\frac{1}{2}$ -102 fl. oz./A | Broadcast before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Corn Earworms | 25 $\frac{1}{2}$ -32 fl. oz./A | Apply when silks first appear. Repeat application every 7 days, if necessary. Do not make more than 5 applications per season. |
| | Corn Rootworm (Adults) | 6 $\frac{1}{2}$ -12 $\frac{3}{4}$ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. |
| | Corn Leaf Aphids | 12 $\frac{3}{4}$ -25 $\frac{1}{2}$ fl. oz./A | Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. |

| Crop | Pest | Rate | Timing/Special Directions |
|--|--|--|--|
| Sweet Corn (Cont'd) | Grasshoppers, Spider Mites, Flea Beetles | 12 ³ / ₄ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. |
| | Sap Beetles | 25 ¹ / ₂ -32 fl. oz./A | Consult local agricultural authorities for proper timing of sprays. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. |
| <p>Notes: (1) To protect bees, do not apply foliarly to corn during the pollen shed period. (2) Allow 7 days after the last application before grazing or cutting for forage. Forage may be fed to beef and dairy cattle and sheep. (3) Corn may be picked 7 days after the last application.</p> | | | |
| Sweet Potatoes | Wireworms | 76 ¹ / ₂ -102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| Swiss Chard | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 76 ¹ / ₂ -102 fl. oz./A | 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 |
|--|---|---|--|
| Swiss Chard (Cont'd) | Aphids, Imported Cabbage- worms, Diamondback Moths, Harlequin Bugs | 6 1/2-12 3/4 fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. |
| Tomatoes | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25 1/2 fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76 1/2-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Dipterous Leafminers | 6 1/2 fl. oz./A | Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. |
| | Banded Cucumber Beetles, Fall Army- worms, Southern Armyworms, Beet Armyworms | 9 1/2-12 3/4 fl. oz./A | Do not apply within one day of harvest, or illegal residues may occur. |
| Vinegar Flies (<i>Drosophila</i> spp.) | 5 1/2-19 oz./A | Note: Diazinon will not control organophosphate- resistant leafminers. | |

| Crop | Pest | Rate | Timing/Special Directions |
|----------------------------------|---|---------------------|--|
| Turnips, Roots and Tops | Cutworms | 51-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 25½ fl. oz./A | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 76½-102 fl. oz./A | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Flea Beetles, Dipterous Leafminers | 6½-12¾ fl. oz./A | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers. |

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FIELD CROPS

REI - 24 Hours

Soil and foliar applications of *Gowan Diazinon SE* 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.

Pre-harvest Interval (PHI*) for Follar Applications

| Crop | PHI* (Days) |
|-------------|-------------|
| Hops | 14 |
| Sugar Beets | 14 |

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

| Crop | Pest | Rate | Timing/Special Directions |
|------|-------------------------|---------------|--|
| Hops | Aphids, Spider Mites | 25½ fl. oz./A | Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 4 applications per season. Do not apply within 14 days of harvest. |

| Crop | Pest | Rate | Timing/Special Directions |
|-------------|--|-------------------|--|
| Sugar Beets | Wireworms | 76½-102 fl. oz./A | <p>Broadcast just before planting. Incorporate into soil 4-6 inches.</p> <p>Do not apply more than 102 fl. oz. of this product to the soil per season.</p> |
| | Aphids, Beet Leafhoppers, Dipterous Leafminers | 9½-12¾ fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p> |
| | Grasshoppers | 12¾ fl. oz./A | <p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest.</p> |

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

GRASSLAND INSECTS

Ditch Banks, Roadsides, Wasteland, Noncrop Areas, Barrier Strip(s)

Grasshoppers: Spray 9 1/2-12 3/4 fl. oz./A in water (minimum of 1 gal. of water per acre for aerial applications or a minimum of 5 gals. of water per acre for ground applications) or in oil (a minimum of 1 gal. of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential.

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

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
- 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
- Yew

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

Apply the recommended rates indicated below. Spray when listed pests first appear. Try to spray underside of leaves and penetrate dense foliage. Repeat as necessary.

| Insects | Amount of <i>gamma D Diazinon SF</i> to Use | |
|---|---|--------------------------|
| | Rate per 3 Gals. Water | Rate per 100 Gals. Water |
| Aphids, Bagworms, Camaton Bud Mites, Camaton 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 Leaf-tiers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mites, Juniper Webworms, Whiteflies | 1/2 fl. oz. (3 teaspoons) | 12 3/4 fl. oz. |
| Apple-and-Thorn Skeletonizers, Cottoncaster Webworms, European Pine Sawfly, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquely-banded Leafrollers, Pear Slugs, Tent Caterpillars | 1 1/4 fl. oz. (2.5 tablespoons) | 38 1/4 fl. oz. |

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Mimosa Webworms: Mix 2½ teaspoons in 3 gals. of water (or 12¾ fl. oz. 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 GOLF COURSES AND SOD FARMS)

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 of sprays. Where watering is recommended in the directions, or waterfowl (ducks or geese) can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least ¼ inch of water immediately after application; however, stop watering before puddling occurs.

To control pests listed below, apply recommended rates. Repeat as necessary.

| Pest | Rate/1,000 sq. ft. | | Remarks |
|--|----------------------|---------|--|
| | Gowan Diazinon SF | Water | |
| Deer Ticks (which may transmit Lyme disease) | 1 oz. | 3 gals. | Spray grass and under shrubbery particularly near house. Make the first application in Spring when ticks are first noticed. Contact your local Cooperative Extension Service or Health Department for additional information about controlling ticks. |
| Lone Star Tick | 1/2 oz. | 3 gals. | |
| Lawn Chinch Bugs | 1 1/2-2.5 fl. oz. | 3 gals. | Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns. |
| Ants, Armyworms, Bermudagrass Mites, Clover Mites, Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leathoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs), Springtails (Collembola) | 1 1/2-2 1/2 fl. oz. | 3 gals. | Spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk when wasps are not active. For frit flies, before treatment mow grass and water well, but delay application until grass is dry. For billbug control, apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect. |

| Pest | Rate/1,000 sq. ft. | | Remarks |
|--|----------------------|---------|---|
| | 9000 Diatom SF | Water | |
| Brown Dog Ticks, Chiggers, Fleas | 2 1/2 fl. oz. | 3 gals. | Note: Do not apply to animals. For Brown Dog Ticks, spray grass and under shrubbery, particularly near house. |
| Hyperodes Weevils | 2 1/2 fl. oz. | 3 gals. | Treat problem areas in mid-April and again in mid-May. |
| Millipedes | 2 1/2 fl. oz. | 3 gals. | |
| Rhodesgrass Scales | 2 1/2 fl. oz. | 3 gals. | Apply when crawlers first emerge. |
| White Grubs (such as Japanese Beetle Larvae, European Chafer, Southern Chafer) | 2 1/2 fl. oz. | 3 gals. | Apply any time between late July and early October. |

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Nuisance Pests in Outside Areas

| Pest | Dozin Dowan diazinon Diazinon AG600-WB 5F | Water | Remarks |
|--|--|---------|---|
| Ants, Boxelder Bugs, Chiggers, Clover Mites, Cockroaches, Crickets, Deer Ticks (which may transmit Lyme disease) Earwigs, Fleas, Flies, Lone Star Ticks Millipedes, Sowbugs (Pillbugs), Spiders, Springtails, (Collembola) | 2.5 fl. oz. | 3 gals. | Thoroughly 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. |
| Deer Ticks (which may transmit Lyme disease), Lone Star Ticks | 1 fl. oz. | 3 gals. | To prevent entry into houses, spray a 5- foot band of soil around the house next to the foundation and spray the founda- tion of the house to a height of 2-3 feet. Repeat applicaffon as necessary. |

Notes: (1) Repeat application as necessary. (2) Do not treat animals with this product. (3) Do not treat plants (other than tree trunks) at this nuisance pest rate.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. If freezing occurs, place the product in a warm room (68°F or above) and allow to thaw. Roll or shake container frequently until thawing is complete.

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Pesticide Disposal

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

Container Disposal

Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or incinerate, or burn, if allowed by state and local authorities. 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.

FOR 24 HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC™ (800) 424-9300. For other product information, contact Gowan Company or see Material Safety Data Sheet.

NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such or in combination with other materials.

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