

Reg # 10163-163

PM-13

1924



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
10163-
163

Date of Issuance:
JAN 10 1994

Term of Issuance: Until
Reregistration

Name of Pesticide Product:
Gowan Diazinon 50 WSB

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIF. \, as amended)

Name and Address of Registrant (include ZIP Code):

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

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. Add the phrase "EPA Registration No. 10163-163" to your label before you release the product for shipment.
3. Delete the heading Bait Sprays: and the associated sentence, since there are no directions for such use, i.e, the directions which you blacked out called for use of less than one unopened water soluble bag. Be sure to retain the prohibition against contaminating milk, feed, drinking water, or application to animals or poultry, since this relates back to the Residual Sprays directions for fly control in livestock structures.
4. Submit five copies of the revised labeling for this product before you release this product for shipment.

Signature of Approving Official:

George T. LaRocca
Product Manager 13
Insecticide-Rodenticide Branch
Registration Division

Date:

JAN 10 1994

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

Sincerely,

George T. LaRocca
Product Manager 13
Insecticide-Rodenticide Branch
Registration Division (H7505C)

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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 50 WSB
INSECTICIDE

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

ACCEPTED
with COMMENTS
in EPA Letter Dated

Active Ingredient: Diazinon

O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate 50%

Inert Ingredients: JAN 10 1994 50%

Total 100%

KEEP OUT OF REACH OF CHILDREN
CAUTION

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

STATEMENT OF PRACTICAL TREATMENT
Organophosphate Insecticide

10163-163

IF SWALLOWED, call a physician or Poison Control Center immediately. Drink one or two 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 develops or persists.

NOTE TO PHYSICIAN: This product is an organophosphate insecticide. 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 24-HOUR EMERGENCY ASSISTANCE CALL CHEMTREC (800) 424-9300.

For other product information, contact Gowan Company or see Material Safety Data Sheet.

GOWAN DIAZINON 50 WSB is registered for use in or on:

Almonds (CA only)	Cherries	Loganberries	Prunes
Apples	Chinese Broccoli	(CA, OR, WA only)	Radishes
Apricots	Chinese Cabbage	Melons	Raspberries
Beans	(Bok choy, Napa)	Mushroom Houses	(CA, OR, WA only)
(Lima, Pole, Snap)	Chinese Mustard	Mustard	Sheep
(succulent only)	Collards	Nectarines	Spinach
Beets	Cranberries	Non-crop Areas	Squash
Blackberries	Cucumbers	Onions	Strawberries
(CA, OR, WA only)	Dewberries	Ornamentals	Sugar Beets
Boysenberries	(CA, OR, WA only)	Parsley	Sweet Corn
(CA, OR, WA only)	Endive (Escarole)	Parsnips	Sweetpotatoes
Broccoli	Fly control in barns	Peaches	Swiss Chard
Brussels Sprouts	and animal	Pears	Tomatoes
Cabbage	sleeping quarters*	Peas(succulent only)	Tumips
Caneberries	Grapes	Peppers	Tumip Tops
(CA, OR, WA only)	Hops	Pineapples	Walnuts (CA only)
Carrots	Kale	Plums	
Cauliflower	Lettuce	Potatoes**	

*Except dairy barns, milk rooms, and poultry houses.

**Except commercially-grown potatoes which will be hand-harvested.

GOWAN DIAZINON 50 WSB is a wettable powder in water soluble bags.

NET WEIGHT _ POUNDS

EPA Reg. No. 10163-
 EPA Est. No. 67545-AZ-1

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

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed, inhaled or absorbed through skin. Do not breathe dust or spray mist. Avoid contact with skin, eyes and clothing. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans or pets. Do not contaminate ornamental fish ponds.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

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 1/4 inch of water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of lake, 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.

PHYSICAL OR CHEMICAL HAZARDS

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

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. 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.

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Agricultural Use Requirements continued

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
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

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 permit children or pets to go onto sprayed areas until spray has completely dried.

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 is applied in combination, the interval should be prolonged by adding to the longest applicable interval an additional 50% of that interval.

CHEMIGATION STATEMENT

Refer to supplemental labeling 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 DISPOSAL: 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 DISPOSAL: Completely empty outer bag into application equipment. Then dispose of empty outer bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke from burning container.

NOTE: 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.

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.

GENERAL INFORMATION

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

GOWAN DIAZINON 50 WSB 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. Applications should be repeated, only as directed to maintain control.

Since GOWAN DIAZINON 50 WSB 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.

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DIRECTIONS FOR USE OF WATER SOLUBLE BAGS

Packets containing GOWAN DIAZINON 50 WSB are water soluble. Do not allow packet to become wet prior to adding to the spray tank. Do not handle with wet hands. Reseal outer bag to protect remaining packets.

To prepare the spray mixture, drop the required number of unopened packets into spray tank while filling with water to the desired level. Operate the agitator while mixing. Depending upon the water temperature and the degree of agitation, the packets should be completely dissolved within 5 minutes of the time they were added to the water. Use the specified amount of GOWAN DIAZINON 50 WSB in the amount of water necessary to give complete coverage of foliage. Determine the total amount of wettable powder to be added to the spray tank based on the rates given in the CROP USE DIRECTIONS. For each one pound of product to be added to the spray tank, use 1 one pound packet. Do not attempt to break open the water soluble packets. Where dosages are expressed as fractions of pounds, prepare tank load to the lower of the nearest whole pound.

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. Note: Mites will be suppressed if diazinon is used in the regular cover spray program. Slight russetting 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. Note: 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.

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Crop	Pest	Rate	Timing/Special Directions
Caneberries (CA, OR and WA only) (Blackberries, Boyenberries, Dewberries, Loganberries, Raspberries)	Leafhoppers, Thrips, Aphids, Two-Spotted Spider Mites, Raspberry Fruitworms	2 lbs. per acre 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 fruitworm make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mites	2-4 lbs. per acre 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. per acre 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	1 1/2 lbs. + 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.
	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	1/2-1 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 Aphid	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	1/2-1 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	4 lbs. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted.
	Cranberry Fruitworms	6 lbs. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation.	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 4 applications per season is permitted.

Notes: (1) This product may be applied to cranberries through sprinker irrigation. Refer to the section Chemigation for specific chemigation directions for use. (2) 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. per acre 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.
	Drosophila spp.	6 oz. per acre 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 Fruit Moths	1 lb. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight.

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 10-15 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. per acre 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. Pineapple storage and refuse may not be fed to livestock.
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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	

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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.

Strawberries	Aphids, Two-Spotted Spider Mite	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 irrigated to assure thorough coverage of the foliage. Repeat application after 7 days if necessary.
	Mole Crickets	2 lbs. per acre	Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
	Strawberry Leafrollers	1/4-1 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.

Crop	Pest	Rate	Timing/Special Directions
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	

Vegetable Crops

For foliar or soil applications, ^{5,5} ~~Ground~~ ~~Application~~ ~~50%~~ ~~Should~~ ~~always~~ ~~be~~ ~~applied~~ ~~as~~ ~~a~~ ~~spray~~ ~~in~~ ~~sufficient~~ ~~water~~ ~~to~~ ~~ensure~~ ~~through~~ ~~coverage~~ ~~of~~ ~~the~~ ~~foliage~~ ~~or~~ ~~soil.~~ ~~Ground~~ ~~Application~~ ~~50%~~ ~~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	Maximum Gals./Acre	
Beans (Lima, Pole, and Snap) (succulent only)	10		5
Beets, Red (Table)	10		5
Broccoli	10		5
Brussels Sprouts	10		5
Cabbage	10		5
Cantaloupes	5		5
Carrots	10		5
Casabes	5		5
Cauliflower	10		5
Chinese Broccoli	10		5
Chinese Cabbage	10		5
Chinese Mustard	10		5
Collards	10		5
Cranberries	5		5
Cucumbers	5		5
Endive (Escarole)	10		5
Honeydew Melons	5		5
Kale	10		5
Lettuce (Head and Leaf)	10		5
Muskmelons	5		5
Mustard	10		5
Onions (Bulb and Green)	10		5
Parsley	10		5
Parsnips	10		5
Pees (succulent only)	10		5
Peppers	10		5
Persian Melons	5		5
Potatoes (Inch)*	10		5
Radishes	10		5
Spinach	10		5
Squash, Summer	5		5
Squash, Winter	5		5
Sweet Corn	20		5
Sweet Potatoes	10		5
Swiss Chard	10		5
Tomatoes	10		5
Turnips	10		5
Watermelons	5		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
Casabes	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
Paranips	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 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. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers	1-1 1/2 lbs. per acre 	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	1/2-3/4 lb. per acre 	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. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 lb. per acre 	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. per acre 	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 1/2-1 cup (4 to 8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

continued
















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Crop	Pest	Rate	Timing/Special Directions
Broccoli (continued)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 lb. per acre [REDACTED]	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.
Brussels Sprouts	Root Maggots	4-8 lbs. per acre [REDACTED]	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 1/2-1 cup (4 to 8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs. per acre [REDACTED]	Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre [REDACTED]	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre [REDACTED]	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms	1/2-1 lb. per acre [REDACTED]	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	4-8 lbs. per acre [REDACTED]	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 1/2-1 cup (4 to 8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs. per acre [REDACTED]	Broadcast just before planting and immediately incorporate into the soil. (See Incorporation Note.)
	Mole Crickets	2 lbs. per acre [REDACTED]	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. per acre [REDACTED]	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
		Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 lb. per acre [REDACTED]
















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Crop	Pest	Rate	Timing/Special Directions
Carrots	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Carrot Rust Fly	4 lbs. per acre 	Apply as a drench to the seed furrow at planting.
	Aphids	1 lb. per acre 	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. per acre 	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 1/2-1 cup (4 to 8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 lb. per acre 	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	1/2-1 lb. per acre 













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Crop	Pest	Rate	Timing/Special Directions
Collards	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Cabbagebugs, Corn Earworms	1/2-1 lb. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre 	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. per acre 	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Endive (Escarole)	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	Apply to plant beds or fields 1-2 days before planting or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate 4-8 inches into soil.
	Aphids, Dipterous Leafminers	1/2-1 lb. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Cabbagebugs, Corn Earworms	1/2-1 lb. per acre 	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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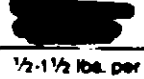




Crop	Pest	Rate	Timing/Special Directions
Lettuce (Head and Leaf)	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 lb. per acre 	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 (Cantaloupe, Casaba, Crenshaw, Honeydew, Muskmelons, Persans, and Hybrids of these) and Watermelons	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	1/2-1 1/2 lbs. per acre 	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Mustard	Mole Crickets	2 lbs. per acre 	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworms	1/2-1 lb. per acre 	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. per acre 	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. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Parsley	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.




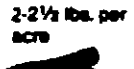



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Crop	Pest	Rate	Timing/Special Directions
Parsnips	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 lb. per acre 	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Peas (succulent only)	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Aphids, Dipterous Leafminers	3/4-1 lb. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers	1/2 lb. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Southern Potato Wireworms (Southeastern U.S.)	4-8 lbs. per acre 	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	1/2-3/4 lb. per acre 	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 36 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
	Banded Cucumber Beetles, Leafhoppers, Southern Armyworms	3/4-1 lb. per acre 	Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 36 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. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	Apply to plant beds or fields 1-2 days before planting and immediately incorporate in the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 lb. per acre 	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. Note: Diazinon will not control organophosphate-resistant leafminers.
Spinach	Aphids, Dipterous Leafminers	1/2-1 lb. per acre 	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.
Squash, Summer	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre 	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	1/2-1 1/2 lbs. per acre 	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Squash, Winter	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre 	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	1/2-1 1/2 lbs. per acre 	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Seed Corn Maggots	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Corn Earworms	2-2½ lbs. per acre 	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. per acre 	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. per acre 	Apply as insects occur. Repeat if necessary, but do not make more than 5 applications per season.
	Sap Beetles	2-2½ lbs. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Swiss Chard	Cutworms	4-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre 	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. per acre 	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. per acre 	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre 	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre 	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½ lb. per acre 	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. per acre 	Note: Diazinon will not control organophosphate-resistant leafminers.
	Vinegar Flies (<i>Drosophila</i> spp.)	½-1½ lbs. per acre 	

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Crop	Pest	Rate	Timing/Special Directions
Turnips (Roots and Tops)	Cutworms	4-8 lbs. per acre [REDACTED]	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre [REDACTED]	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. per acre [REDACTED]	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 lb. per acre [REDACTED]	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 Sciarids)
 Mix 4-5 lbs. of Diazinon 50WP in 50 gallons 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.

[REDACTED SECTION]

Field Crops

Apply soil and foliar applications of Diazinon 50WP 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*
Hope	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. per acre	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. per acre	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. per acre	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. per acre	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: Tops may be fed to beef and dairy animals.

Grassland Insects

Ditch Banks, Roadsides, Woodland, Noncrop Areas, Barrier Strips

Grasshoppers: Apply ¾-1 lb. per acre 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.

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 four hours. Mix 2 lbs. of 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 Diazinon 50W with 1 lb. of sugar (or 2 cups of syrup or molasses) for the desired application.

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

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

Insects	Amount of 50 Diazinon 50W to Use	
	60 wpm	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		1 lb.
Apple-and-Thorn Scale, Cottony-cushion Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tort Caterpillars		3 lbs.

Note: Do not use on Ferns, Palm-trees, Hibiscus, Peppers, Pines, and Gardenia, since injury to the plants may occur.

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) — CRANBERRIES ONLY

Gowan 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 Gowan 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 Gowan 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 Gowan 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 diazinon to the irrigation lines.
6. Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach all sprinkler heads furthest from the chemigation injection point.