

10163-163

03/28/2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

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

MAR 28 2002

Dear Ms. Farrell:

Subject: Amendment - Comply with 2000 Diazinon MOA;  
Delete Beans, Cucumbers, Parsley,  
Parsnips, Peas, Peppers, Potatoes,  
Summer Squash, Winter Squash,  
Sweet Potatoes, Swiss Chard, Turnips,  
Indoor Ornamentals, Grassland Insects,  
Livestock insects, and Fly control in  
Livestock Structures  
Update First Aid per PR Notice 2001-1; and  
Update CSF/replacement diazinon source  
Gowan Diazinon 50WSB  
EPA Registration Number 10163-163  
Your submission dated September 19, 2001  
and associated FAX of September 27, 2001

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Since there is no lawn use on the label, delete the front panel limitation "This product must not be used on golf courses or sod farms".
  - b. On the front panel claims, revise "...field crops and ornamentals" to read "...field crops, and ornamentals grown outdoors in nurseries".
  - c. Directly under the heading FIRST AID add "Organophosphate".
  - d. In the last item of the If Swallowed advice in the FIRST AID section, revise "...an unconscious person" to read "...an unconscious or convulsing person".

- e. In the Environmental Hazards, delete the 2 sentences that refer to the now deleted use on lawns. Specifically, delete the sentence beginning "Because of...", and the sentence beginning "On lawns, if waterfowl...".
- f. You may delete the heading Physical and Chemical Hazards and its associated text. Your proposed text is appropriate for a solvent based emulsifiable concentrate rather than a wettable powder, such as this product.
- g. Under the heading GENERAL INFORMATION, replace the sentence "Do not use on food crops grown in greenhouses." to read "Do not use in greenhouses, dwellings, or barns. Do not use on livestock."
- h. After the General Information add the heading "Work Safety Rules" and the following text:

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 50 WSB, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See FIRST AID section of this label.

- i. Under the heading "GOWAN Diazinon 50WSB is registered for use in or on", revise "Ornamentals" to read "Ornamentals (outdoor nurseries only)".
- j. Throughout the directions, revise the pest name "Twospotted Spider Mite" to appear as "Two-spotted Spider Mite".
- k. Throughout the directions for fruit and nut crops, since each final note about pounds per acre per application and per season pertains to all uses for a given crop, that note should either be indented further into the crop column to prevent the potential misunderstanding that the note pertains only to the use pattern appearing immediately above it or else each of those notes should begin "For all uses listed above, do not apply more than....".
- l. For the crop Canberries, add a note for all uses as follows (or with the introduction from item "k", above):
  - Do not apply more than 4 lbs. of product per acre per application and no more than 10 lbs. of product per acre per season.
- m. For the crop Cranberries, in the Comments for Blackheaded Fireworm, replace "Apply when pest appears." with "Apply to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing."
- n. For the crop Cranberries, separate the directions for

Cranberry Fruitworm from those for Cranberry Tipworm. For Cranberry Tipworm, the Rate should be 4 lbs. per acre and the Comments should read "Use in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation. Presence of damage is not an indicator of active infestation. For best results, target early-stage larvae. Repeat application after 14 days, if necessary. A maximum of 6 applications per season is permitted."

- o. For the crop Cranberries, for Cranberry Fruitworms the Rate should be 4-6 lbs. per acre and the Comments should read "Use in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation. Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management adviser. Repeat application every 14 days, as needed. A maximum of 4 applications per season is permitted at the 6 lb. rate. A maximum of 6 applications per season is permitted for the 4 lb. rate."
  - p. For the crop Walnuts, in the notes add "Do not apply more than 6 lbs. of product per acre per season and no more than 18 lbs. of product per acre per season."
  - q. In the minimum gallonage table for VEGETABLE CROPS, revise "Casabas" to read "Casaba Melons", and revise "Crenshaws" to read "Crenshaw Melons".
  - r. In the NOTES under the heading VEGETABLE CROPS, since you have deleted the use on beans and peas, revise item 2 by deleting "to peas or beans if these crops or weeds in the treatment area are in bloom or".
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

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.

The Basic Confidential Statement of Formula (CSF) dated September 19, 2001 and the Alternate CSF dated September 19, 2001 which identify replacement diazinon source Manufacturing Use Products are acceptable and have been added to this product's registration file.

Sincerely,

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

# 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.

**ACTIVE INGREDIENT:**

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

% By Wt.

50.0%

**INERT INGREDIENTS**

50.0%

**TOTAL** 100.0%

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

### FIRST AID

If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-478-0798 for emergency medical treatment information.

### 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.

### 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

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.

NET CONTENTS \_\_\_\_\_ POUNDS

EPA Reg. No. 10163-163  
EPA Est. No. 67545-AZ-1



ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
MAR 28 2002

Gowan Company  
P.O. Box 5530  
Yuma, Arizona 85305 5530

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
I am hereby certifying that this pesticide  
is registered under EPA Reg. No.  
10163-163

**USER SAFETY RECOMMENDATIONS**

**Users should:**

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

**ENVIRONMENTAL HAZARDS**

This product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. On lawns, if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of ¼ inch of water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of 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.

**DIRECTIONS FOR USE**

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

**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.

**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 through 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.

**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.

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

Almonds (CA only)	Caneberries (CA, OR, WA only)	Endive (Escarole)	Peaches
Apples	Carrots	Grapes	Pears
Apricots	Cauliflower	Hops	Pineapples
Broccoli	Cherries	Kale	Plums
Broccoflower	Chinese Broccoli	Lettuce	Prunes
Broccolini	Chinese Cabbage (Bok choy, Napa)	Loganberries (CA, OR, WA only)	Radishes
Beets	Chinese Mustard	Melons	Raspberries (CA, OR, WA only)
Blackberries (CA, OR, WA only)	Cranberries	Mushroom Houses	Spinach
Boysenberries (CA, OR, WA only)	Collards	Mustard	Strawberries
Brussels Sprouts	Dewberries (CA, OR, WA only)	Nectarines	Sugar Beets
Cabbage		Onions	Sweet Corn
		Ornamentals	Tomatoes
			Walnuts (CA only)

**PREHARVEST INTERVAL**

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

**CROP USE DIRECTIONS  
FRUIT AND NUT CROPS (REI 24 Hours)**

GOWAN DIAZINON 50 WSB may be applied using ground or aerial application equipment as specified in the table below. This table also indicates the minimum amount of water that can be used for the various methods of application. The rate of GOWAN DIAZINON 50 WSB for aerial spray or concentrated spray applied by ground equipment is based on a dilute full cover spray applied to fruit or nut trees with conventional ground equipment at a rate of 300-400 gallons of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. (Note: "lbs." or "lbs. of product" in the directions means pounds of this product, not pounds of active ingredient.) If the "RATE" calls for 1 lb. of GOWAN DIAZINON 50 WSB per 100 gallons of water, this amounts to 3-4 lbs. of product per acre when applied to fruit trees at usual dilute ground spray volumes of 300-400 gallons of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre application that is specified in the directions for use for individual crops.

CROP	AERIAL APPLICATION MINIMUM GALS./ACRE	GROUND APPLICATION MINIMUM GALS./ACRE	
		DILUTE	CONCENTRATE
ALMONDS*	20	100	20
APPLES	20	100	20
APRICOTS	20	100	20
BLACKBERRIES**	20	100	20
BOYSENBERRIES**	20	100	20
CHERRIES	20	100	20
CRANBERRIES	20	15	-
DEWBERRIES**	20	100	20
GRAPES	20	100	20
LOGANBERRIES**	20	100	20
NECTARINES	20	100	20
PEACHES	20	100	20
PEARS	20	100	20
PINEAPPLE	20	200	-
PLUMS	20	100	20
PRUNES	20	100	20
RASPBERRIES**	20	100	20
STRAWBERRIES	20	100	20
WALNUTS*	20	100	20

\*CA only

\*\*CA, OR, or WA only

**NOTE: TO PROTECT BEES**, do not apply this product to fruit trees when the trees or substantial numbers of weeds in the orchard are in bloom. 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.

**FRUIT AND NUT CROPS (REI 24 HOURS)**

CROP	PEST	RATE	COMMENTS
ALMONDS (CA only)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borer, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1-1 1/2 lbs. per 100 gals.	Plus 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil. Apply as a single dormant spray.
	• Do not apply more than 6 lbs. of product or 9 gals. of oil per acre.		

## FRUIT AND NUT CROPS (Continued)

CROP	PEST	RATE	COMMENTS
APPLES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. per 100 gals.	Plus 2 gals. dormant oil or 1-1½ gals. superior type oil. 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. per 100 gals.	Apply, beginning at petal fall, as infestations develop. Repeat application in 14 days if necessary.
	Eyespotted Bud Moth, Fruittree Leafroller, Mealybugs	1 lb. per 100 gals.	Make 3 cover sprays beginning at pink stage.
	• Do not repeat application closer than 14 days.		
	Codling Moth, Rosy Apple Aphid, Green Apple Aphid, Woolly Apple Aphid, Spider Mite	1 lb. per 100 gals.	Make 3 cover sprays beginning when infestations occur.
	• Do not repeat closer than 14 days. • Note: Mites will be suppressed if diazinon is used in the regular cover spray program. • Slight russeting may occur on some varieties of apples such as Golden Delicious.		
	Apple Maggot	1 lb. per 100 gals.	Make 3 cover sprays when flies are active and laying eggs.
• Do not repeat closer than 14 days. • Diazinon may not control organophosphate-resistant apple maggots.			
San Jose Scale Crawler, Forbes Scale Crawler	1 lb. per 100 gals.	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.	
• 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			
APRICOTS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borer, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. per 100 gals.	Plus 2 gals. of dormant oil or 1-1½ gals. superior type oil. Apply as a dormant spray.
	• Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.		
	Aphids, Brown Mite (Clover Mite), Twospotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 lb. per 100 gals.	Apply as infestations occur. Repeat application after 14 days if necessary.
	Olive Scale Crawler	½ lb. per 100 gals.	Plus 1 ½ gals. of light medium horticultural oil. 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 Mealybug	1 lb. per 100 gals.	Apply as a cover spray from petal fall to June. Allow 14 days between applications.	
• 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.			
CANE BERRIES (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (CA, OR and WA only)(7)	Leafhoppers, Thrips, Aphids, Twospotted Spider Mite, Raspberry Fruitworm	2 lbs. per acre	Use in a minimum of 100 gals. of water (200 gals. of water maximum). Apply as insects occur. Repeat application after 14 days if necessary. For raspberry fruitworm, make one application when blossom buds separate. Make a second application immediately before blossoms open.
	• Do not make more than 5 applications per season.		
	Dryberry Mite	2-4 lbs. per acre	Use 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 Borer (Raspberry Root Borer)	4 lbs. per acre	Use 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 (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borer, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 ¼ lbs. per 100 gals.	Plus 3 gals. dormant oil or 1-1½ gals. superior type oil. Apply as a dormant spray.
	• Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.		
	Eyespotted Bud Moth, Fruittree Leafroller	1 lb. per 100 gals.	Apply as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.
	Leafhoppers	1 lb. per 100 gals.	Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.
	Cherry Fruitfly	½ - 1 lb. per 100 gals.	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals.
	Black Cherry Aphid	1 lb. per 100 gals.	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.
San Jose Scale Crawler	1 lb. per 100 gals.	Apply during the pre-pink stage or when crawlers first appear.	

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FRUIT AND NUT CROPS (Continued)

CROP	PEST	RATE	COMMENTS
CHERRIES (21) (Continued)	Cherry Rust Mite	½ - 1 lb. per 100 gals.	Apply as a single supplemental spray to trees after harvest.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per year.</li> </ul>		
CRANBERRIES (7)	Blackheaded Fireworm	4 lbs. per acre	Use 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 Fruitworm, Cranberry Tipworm	6 lbs. per acre	Use 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.
	<ul style="list-style-type: none"> <li>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.</li> <li>This product may be applied to cranberries through sprinkler irrigation. Refer to the section entitled SUPPLEMENTAL LABELING FOR CRANBERRIES - CHEMIGATION for specific chemigation directions for use.</li> </ul>		
GRAPES (28)	Pacific Spider Mite, Leafhoppers, Grape Berry Moth, Grape Leafroller, Omnivorous Leafroller, Aphids, Spider Mite	1-2 lbs. per acre	Use in a minimum of 100 gals. of water (200 gals. of water maximum). Apply as a thorough cover spray when pest appears. Repeat application after 7 days if necessary.
	<i>Drosophila</i> spp.	6 ozs. per acre	Use in a minimum of 100 gals. of water (300 gals. of water maximum). Apply as a thorough cover spray at 7-day intervals.
	<ul style="list-style-type: none"> <li>Do not apply more than 2 lbs. of product per acre per application and no more than 10 lbs. per acre per season.</li> </ul>		
NECTARINES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, European Red Mite Eggs, Twig Borer, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. per 100 gals.	Plus 2-3 gals. of dormant oil or 1-1½ gals. superior type oil. Apply as a dormant spray.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.</li> </ul>		
	Aphids, Brown Mite (Clover Mite), Twospotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 lb. per 100 gals.	Apply as infestations occur. Repeat application after 7 days if necessary.
	Peach Twig Borer, Parlatoria Scale	1 lb. per 100 gals.	Plus 1 gal. light medium summer horticultural oil. Apply at petal fall.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application.</li> </ul>		
	Olive Scale Crawler	½ lb. per 100 gals.	Plus 1 ½ gals. light medium horticultural oil. Apply as insects occur. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications.
	Oriental Fruit Moth	1 lb. per 100 gals.	Apply at 100% petal fall. Make 2 applications at 10-15 day intervals. Time the last application to peak adult flight.
PEACHES (21)	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season.</li> </ul>		
	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borer, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. in 100 gals. of water	Plus 2-3 gals. of dormant oil or 1-1½ gals. superior type oil. Apply as a dormant spray.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.</li> </ul>		
	Aphids, Brown Mite (Clover Mite), Twospotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 lb. per 100 gals.	Apply as infestations occur. Repeat application after 14 days if necessary.
	Peach Twig Borer, Parlatoria Scale	1 lb. per 100 gals.	Plus 1 gal. light medium summer horticultural oil. Apply at petal fall.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product or 4 gals. of oil per acre per application.</li> </ul>		
	Olive Scale Crawlers	½ lb. per 100 gals.	Plus 1 ½ gals. light medium horticultural oil. Apply as insects occur.
	<ul style="list-style-type: none"> <li>Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications.</li> </ul>		
	Oriental Fruit Moth	1 lb. per 100 gals.	Apply at 100% petal fall. Make 2 applications at 10-15 day intervals. Time the last application to peak adult flight.
Peach Twig Borer	1 lb. per 100 gals.	Apply as insects occur in May and June. Allow 7 day between applications.	
Leafhoppers	1 lb. per 100 gals.	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications.	



## FRUIT AND NUT CROPS (Continued)

CROP	PEST	RATE	COMMENTS
PEACHES (21) (Continued)	White Peach Scale	1 ½ -2 lbs. per 100 gals.	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 more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season.		
PEARS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Pear Leaf Blister Mite Eggs, Twig Borer, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. per 100 gals.	Plus 2-3 gals. of dormant oil or 1-1½ gals. superior type oil. Apply as a dormant spray.
	• Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.		
	Pear Psylla	½ -1 lb. per 100 gals.	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 Leafminer, Mealybugs	1 lb. per 100 gals.	Make 3 cover sprays beginning in April. Allow at least 14 days between applications.
	Codling Moth, Rosy Apple Aphid, Green Apple Aphid, Woolly Apple Aphid, Spider Mite	1 lb. per 100 gals.	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 Maggot	1 lb. per 100 gals.	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.
PINEAPPLES (7)	San Jose Scale Crawler, Forbes Scale Crawler	1 lb. per 100 gals.	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later
	• 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.		
	Pineapple Mealybug	2 lbs. per acre	Use in 200-500 gals. of water. Repeat application as necessary every 28 days up to a maximum of 8 applications.
• Pineapple forage and refuse may not be fed to livestock.			
PLUMS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borer, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. per 100 gals.	Plus 2-3 gals. of dormant oil or 1-1½ gals. superior type oil. 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 gal. of water.		
	Brown Mite, Clover Mite, European Red Mite	1 lb. per 100 gals.	Apply as needed every 7 days.
Leafcurl Plum Aphid, Mealy Plum Aphid, Thistle Aphid	½ -1 lb. per 100 gals.		
• 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.			
PRUNES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borer, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. per 100 gals.	Plus 2-3 gals. of dormant oil or 1-1½ gals. superior type oil. 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 gal. of water.		
	Brown Mite, Clover Mite, European Red Mite	1 lb. per 100 gals.	Apply as needed every 7 days.
Leafcurl Plum Aphid, Mealy Plum Aphid, Thistle Aphid	½ -1 lb. per 100 gals.		
• 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.			
STRAWBERRIES (5)	Aphids, Twospotted Spider Mite	1 lb. per acre	Apply in 100 gals. water as pests occur. Repeat applications, if necessary after 7 days.
	Cyclamen Mite	2 lbs. per acre	Apply in 100 gals. of water. 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 Cricket	2 lbs. per acre	Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.

10/15

**FRUIT AND NUT CROPS (Continued)**

CROP	PEST	RATE	COMMENTS
STRAWBERRIES (Continued) (5)	Strawberry Leafroller	¾-1 lb. per 100 gals.	Apply 200 gals. of spray per acre when blossoms show color.
	<ul style="list-style-type: none"> <li>Do not make more than 3 foliar applications per season.</li> <li>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.</li> </ul>		
WALNUTS (CA only)  (45 or after husks open)	Aphids, Spider Mite	2 lbs. per acre	Apply in 100 gals. water as a foliar spray as needed. Repeat applications in 14 days if necessary.
	Codling Moth, Scale Crawler, Walnut Caterpillar	6 lbs. per acre	Apply in 100 gals. of water as a foliar spray as needed. Repeat applications in 14 days if necessary.
<ul style="list-style-type: none"> <li>Do not make more than 3 applications per season.</li> <li>Do not apply after husks open.</li> </ul>			

**VEGETABLE CROPS (REI 24 HOURS)**

For foliar or soil applications, GOWAN DIAZINON 50 WSB should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. GOWAN DIAZINON 50 WSB 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 MINIMUM GALS./ACRE	AERIAL APPLICATION MINIMUM GALS./ACRE
BEETS, RED (Table)	10	5
BROCCOLI	10	5
BROCCOLINI	10	5
BROCCOFLOWER	10	5
BRUSSELS SPROUTS	10	5
CABBAGE	10	5
CANTALOUPE	5	5
CARROTS	10	5
CASABAS	5	5
CAULIFLOWER	10	5
CHINESE BROCCOLI	10	5
CHINESE CABBAGE	10	5
CHINESE MUSTARD	10	5
COLLARDS	10	5
CRENSHAW	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
PERSIAN MELONS	5	5
RADISHES	10	5
SPINACH	10	5
SWEET CORN	20	5
TOMATOES	10	5
WATERMELONS	5	5

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 use directions) using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of surface cutworms, incorporate 2-3 inches, for subterranean cutworms 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.

VEGETABLE CROPS (REI 24 HOURS)

CROP	PEST	LBS./ACRE	COMMENTS
BEETS, RED (Table) (14)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Cricket	2	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	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer	½-1	Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of 7 days between applications.
	• Diazinon will not control organophosphate-resistant leafminers.		
BROCCOLI (7) BROCCOLINI (7) BROCCOFLOWER (7)	Root Maggot	4-6	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil. Use 4 - 8 ozs in 50 gals. of transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 cup (4-8 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	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Cricket	2	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	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminer	½ -1	Apply as insects occur. Repeat application as necessary, up to 5 times, with a minimum of 7 days between applications.
	• Diazinon will not control organophosphate-resistant leafminers.		
BRUSSELS SPROUTS (7)	Root Maggot	4-6	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil. Use 4 - 8 ozs in 50 gals. of transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½ -1 cup (4-8 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	Broadcast just before planting and incorporate into the soil. See SOIL INCORPORATION notes.
	Mole Crickets	2	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms.	½-1	Apply as insects occur. Repeat application as necessary, up to 5 times, with a minimum of 7 days between applications.
CABBAGE (21)	Root Maggots	4-6	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil. Use 4 - 8 ozs in 50 gals. of transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½ -1 cup (4-8 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	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION notes.
	Mole Cricket	2	Apply to plant beds or field 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminer	½ -1	Apply as insects occur. Repeat application as necessary, up to 5 times, with a minimum of 7 days between applications.
	• Note: Diazinon will not control organophosphate-resistant leafminers.		

## VEGETABLE CROPS (Continued)

CROP	PEST	LBS./ACRE	COMMENTS
CARROTS (14)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Cricket	2	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	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Carrot Rust Fly	4	Apply as a drench to the seed furrow at planting.
	Aphids	1	Apply as insects occur. Repeat application as necessary, up to 5 times with a minimum of 7 days between applications.
CAULIFLOWER (7)	Root Maggot	4-6	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil. Use 4 - 8 ozs. in 50 gals. of transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½ - 1 cup (4-8 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	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Cricket	2	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 4-8 inches of soil.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminer	½ - 1	Apply as insects occur. Repeat application as necessary, up to 5 times, with a minimum of 7 days between applications.
• Note: Diazinon will not control organophosphate-resistant leafminers.			
CHINESE BROCCOLI, CHINESE CABBAGE (Bok Choy and Napa), CHINESE MUSTARD (Gai Choy) (10)	Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminer	½ - 1	Apply as insects occur. Repeat application as necessary, up to 5 times, with a minimum of 7 days between applications.
	• Diazinon will not control organophosphate-resistant leafminers.		
COLLARDS (10)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Cricket	2	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworm	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moth, Imported Cabbageworm, Harlequin Cabbagebug, Corn Earworm	½ - 1	Apply as insects occur. Repeat application as necessary, up to 5 times, with a minimum of 7 days between applications.
	• Diazinon will not control organophosphate-resistant leafminers.		
ENDIVE (Escarole) (14)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Cricket	2	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	Broadcast just before planting and immediately incorporate 4-8 inches of soil.
	Aphids, Dipterous Leafminer	½ - 1	Apply as insects occur. Repeat application as necessary, up to 5 times, with a minimum of 7 days between applications.
	• Diazinon will not control organophosphate-resistant leafminers.		
KALE (10)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION notes.
	Mole Cricket	2	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moth, Imported Cabbageworm, Harlequin Cabbagebug, Corn Earworm	½ - 1	Apply as insects occur. Repeat application as necessary, up to 5 times, a minimum of 7 days between applications.
	• Diazinon will not control organophosphate-resistant leafminers.		

## VEGETABLE CROPS (Continued)

CROP	PEST	LBS./ACRE	COMMENTS
LETTUCE (Head and Leaf) (14)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION notes.
	Mole Cricket	2	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½ -1	Apply as insects occur. Repeat application as necessary, up to 5 times, with a minimum of 7 days between applications.
	• Note: Diazinon will not control organophosphate-resistant leafminers.		
MELONS (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, and Hybrids of these) and WATERMELONS (3)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION notes.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer, Thrips, Striped Cucumber Beetle, Melonworms, Leafhoppers, Spider Mite	½ -1 ½	Apply as insects occur. Repeat application as necessary, every 7 days.
	• Do not make more than 5 applications per season. • Diazinon will not control organophosphate-resistant leafminers.		
MUSTARD (10)	Mole Cricket	2	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer, Diamondback Moth, Imported Cabbageworm	½ -1	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.
	• Diazinon will not control organophosphate-resistant leafminers.		
ONIONS (Bulb and Green) (14)	Onion Maggot	4-8	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 Thrip	1	Apply as thrips appear. Repeat after 7 days, if necessary.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
• Do not make more than 3 applications per season.			
RADISHES (14)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Cricket	2	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	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetle, Dipterous Leafminer	½ -1	Apply as insects occur. Repeat application as necessary up to 3 times with a minimum of 7 days between applications.
• Diazinon will not control organophosphate-resistant leafminers.			
SPINACH (14)	Aphids, Dipterous Leafminer	½ -1	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.
	• Diazinon will not control organophosphate-resistant leafminers.		
SWEET CORN (7)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Seed Corn Maggot	4-8	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Corn Earworm	2-2 ½	Apply when silks first appear. Repeat application every 7 days up to a maximum of 5 applications if necessary.
	Corn Leaf Aphid	1-2	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat in 7 days if necessary.
	Grasshoppers, Spider Mite, Flea Beetles	1	Apply as insects occur. Repeat if necessary.
	Sap Beetle	2-2 ½	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. • To protect bees, do not apply foliarly to corn during the pollen shed period. • Allow a minimum of 7 days between the last application and grazing or cutting for forage.		

**VEGETABLE CROPS (Continued)**

CROP	PEST	LBS./ACRE	COMMENTS
TOMATOES (1)	Cutworms	4-8	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.
	Mole Cricket	2	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer	¼	Apply as insects appear. Repeat application after 7 days, if necessary.
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	¼ -1	
	Vinegar Fly ( <i>Drosophila</i> spp.)	½ -1 ½	
<ul style="list-style-type: none"> <li>Do not make more than 5 applications per season.</li> <li>Diazinon will not control organophosphate-resistant leafminers</li> </ul>			

**MUSHROOM HOUSES**

**MUSHROOM FLIES (Phorids and Sclarids)**

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

**FIELD CROPS (REI 24 HOURS)**

Apply soil and foliar applications of GOWAN DIAZINON 50 WSB in sufficient water to ensure thorough coverage for foliar applications.

CROP	PEST	LBS./ACRE	COMMENTS
HOPS (14)	Aphids, Spider Mite	2	Apply as pests occur. Repeat applications, if necessary, in 14 days.
	<ul style="list-style-type: none"> <li>Do not make more than 4 applications per season.</li> </ul>		
SUGAR BEETS (14)	Wireworms	6-8	Broadcast just before planting and immediately incorporate into the top 4-6 inches of soil.
	Beet Leafhopper, Dipterous Leafminer, Aphids	¼ -1	Apply as insects occur. Repeat application as necessary, up to 5 times per season with a minimum of 7 days between applications.
	Grasshoppers	1	Apply as insects occur. Repeat application as necessary, up to 5 times per season, with a minimum of 7 days between applications.
<ul style="list-style-type: none"> <li>Do not apply more than 8 lbs. of this product to the soil, per season.</li> <li>Diazinon will not control organophosphate-resistant leafminers.</li> <li>Note: Tops may be fed to beef and dairy animals.</li> </ul>			

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

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

Aphids, Bagworms, Carnation Bud Mite, Carnation Shoot Mite, Clover Mite, Cyclamen Mite, Dipterous Leafminer, European Pine Shoot Moth, European Red Mite, Flea Beetle, Holly Bud Moth, Leafhoppers, Obscure Root Weevil, Omnivorous Leafhopper, Privet Mite, Scale Crawlers (Cottony Cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Twospotted Spider Mite, Juniper Webworm, and Whiteflies: Use 1 lb. Of GOWAN DIAZINON 50 WSB per 100 gals. Water. For control of Apple and Thorn Skeletonizer, Cotoneaster Webworms, Fall Webworms, Hemlock Chermé, Oak Looper, Obliquebanded Leafroller, Pear Slug, Tent Caterpillar: Use 3 lbs. GOWAN DIAZINON 50 WSB per 100 gals. water.

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

**SUPPLEMENTAL LABELING FOR CRANBERRIES - CHEMIGATION**

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

GOWAN DIAZINON 50 WSB may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems to cranberries. To ensure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for 5 minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.

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**

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.

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**

The system just 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.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection 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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

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

**OPERATING INSTRUCTIONS**

Determine the acreage to be treated by the sprinkler system.

Measure the appropriate amount of GOWAN DIAZINON 50 WSB 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.

Add the pre-measured GOWAN DIAZINON 50 WSB 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 50 WSB is used or alone or tank mixed with other pesticides registered for sprinkler chemigation application to cranberries.

Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.

Engage the chemigation injection or venturi system to add diazinon to the irrigation lines.

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.

**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.

**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.