



United States
Environmental Protection Agency
Washington, DC 20460

Registration
Amendment
Other

OPP Identifier Number
220234

Application for Pesticide - Section I

1. Company/Product Number Gowan Company/ 10163-163	2. EPA Product Manager George La Rocca	3. Prop. Classification <input type="checkbox"/> General Use <input type="checkbox"/> Restricted
4. Company/Product (Name) Gowan Company/Gowan Diazinon 50WSB	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) Gowan Company P.O. Box 5569 Yuma, AZ 85366-5569 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(ii), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Adding a pest to Cranberry crop section per PR notice 95-2

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Cindy Baker	Title Registration Specialist	Telephone No. (Include Area Code) (570) 783-8344
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature Cindy Baker	3. Title Registration Specialist	
4. Typed Name Cindy Baker	5. Date 12/26/95	

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.

ACTIVE INGREDIENT: Diazinon	% By Wt.
O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	50%
INERT INGREDIENTS	50%
	TOTAL 100%

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT Organophosphate Insecticide

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

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

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

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 eye wear

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.

Gowan

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

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

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

GOWAN DIAZINON 50 WSB INSECTICIDE



P.O. Box 5569
Yuma, Arizona 85366-5569

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

ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. On lawns, if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of ¼ inch of water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

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

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.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not 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.

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.

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.

CROP USE DIRECTIONS FRUIT AND NUT CROPS

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 gals. of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. (Note: "lbs." or "lbs. of product" in the directions means pounds of this product, not pounds of active ingredient.) If the "Rate" calls for 1 lb. of GOWAN DIAZINON 50 WSB per 100 gals. of water, this amounts to 3-4 lbs. of product per acre when applied to fruit trees at usual dilute ground spray volumes of 300-400 gals. of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the directions for use for individual crops.

CROP	AERIAL APPLICATION		GROUND APPLICATION	
	MINIMUM GALS./ACRE		MINIMUM GALS./ACRE	PHI*
ALMONDS**	20		100	20
APPLES	20		100	20
APRICOTS	20		100	20
BLACKBERRIES***	20		100	20

CROP	AERIAL APPLICATION		GROUND APPLICATION		PHI*
	MINIMUM GALS./ACRE	MINIMUM GALS./ACRE	DILUTE	CONCENTRATE	
BOYSENBERRIES**	20	100	20	7	
CHERRIES	20	100	20	21	
CRANBERRIES	20	15	-	7	
DEWBERRIES***	20	100	20	7	
GRAPES	20	100	20	28	
LOGANBERRIES***	20	100	20	7	
NECTARINES	20	100	20	21	
PEACHES	20	100	20	21	
PEARS	20	100	20	21	
PINEAPPLES	20	200	-	7	
PLUMS	20	100	20	21	
PRUNES	20	100	20	21	
RASPBERRIES	20	100	20	7	
STRAWBERRIES	20	100	20	5	
WALNUTS	20	100	20	13	

*PHI = Preharvest interval or the number of days between last application and harvest.

**California only

*** California, Oregon and Washington only

**** Dormant spray only

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

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.

ALMONDS (California only): San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs: Use 1-1½ lbs. plus 2-3 gals. dormant oil or 1-1½ 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: Use 1 lb. plus 2 gals. dormant oil or 1-1½ 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: Use 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, Fruittree Leafrollers, Mealybugs: Use 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: Use 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 russeting may occur on some varieties of apples such as Golden Delicious. Apple Maggots: Use 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: Use 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: Use 1 lb. plus 2 gals. of dormant oil or 1-1½ gals. superior type oil in 100 gals. of water. Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Use 1 lb. in 100 gals. of water. Apply as infestations occur. Repeat application after 14 days if necessary. Olive Scale Crawlers: Use ½ lb. plus 1½ 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: Use 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 last application and harvest.

CANEBERRIES (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (California, Oregon and Washington only): Leafhoppers, Thrips, Aphids, Two-spotted Spider Mites, Rasp'erry Fruitworms: Use 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: Use 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): Use 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: Use 1¼ lbs. plus 3 gals. dormant oil or 1-1½ gals. superior type oil in 100 gals. of water. Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. Eyespotted Bud Moths, Fruittree Leafroller: Use 1 lb. in 100 gals. of water. Apply as infestations occur beginning at petal fall. Repeat application after 7 days if necessary. Leafhoppers: Use 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: Use ½-1 lb. in 100 gals. of water. Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals. Black Cherry Aphids: Use 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: Use 1 lb. in 100 gals. of water. Apply during the pre-pink stage or when crawlers first appear. Cherry Rust Mites: Use ½-1 lb. in 100 gals. of water. Apply as a single supplemental spray to trees after harvest. Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per year. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

CRANBERRIES: Blackheaded Fireworms: Use 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, Cranberry Tipworm: Use 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 sprinkler irrigation. Refer to the SUPPLEMENTAL LABELING entitled CHEMIGATION for specific chemigation directions for use. (2) To avoid illegal residues, allow a minimum of 7 days between last application and harvest.

GRAPES: Pacific Spider Mites, Leafhoppers, Grape Berry Moth, Grape Leafhoppers, Omnivorous Leafrollers, Aphids, Spider Mites: Use 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 pests appear. Repeat application after 7 days if necessary. *Drosophila spp.*: Use 6 ozs. 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. of 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.

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: Use 1 lb. plus 2-3 gals. of dormant oil or 1-1½ gals. superior type oil in 100 gals. of water. Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Use 1 lb. in 100 gals. of water. Apply as infestations occur. Repeat application after 7 days if necessary. Peach Twig Borers, Parlatoria Scale: Use 1 lb. plus 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: Use ½ lb. plus 1½ 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 Moth: Use 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 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: Use 1 lb. plus 2-3 gals. of dormant oil or 1-1½ gals. superior type oil in 100 gals. of water. Apply as a dormant spray. Do not apply more

than 4 lbs. of product or 6 gals. of oil per acre. Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Use 1 lb. in 100 gals. of water. Apply as infestations occur. Repeat application after 14 days if necessary. Peach Twig Borer, Parlatoria Scale: Use 1 lb. plus 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 per application. Olive Scale Crawlers: Use 1/2 lb. plus 1 1/2 gals. light medium horticultural oil in 100 gals. of water. Apply as insects occur. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications. Oriental Fruitmoths: Use 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: Use 1 lb. in 100 gals. of water. Apply as insects occur in May and June. Allow 7 days between applications. Leafhoppers: Use 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: Use 1-2 lbs. in 100 gals. of water. Apply post harvest timed to coincide with 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 last application and harvest.

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: Use 1 lb. plus 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. Pear Psylla: Use 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: Use 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: Use 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: Use 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 maggots. San Jose Scale Crawlers, Forbes Scale Crawlers: Use 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.

PINEAPPLES: Pineapple Mealybugs: Use 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 forage and refuse may not be fed to livestock.

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: Use 1 lb. plus 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 gal. of water. Brown Mites, Clover Mites, European Red Mites: Use 1 lb. in 100 gals. of water. Apply as needed every 7 days. Leafcurl Plum Aphid, Mealy Plum Aphids, Thistle Aphids: Use 1/2-1 lb. in 100 gals. of water. Apply as needed every 7 days. 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 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: Use 1 lb. plus 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. For late April or May applications, mix diazinon with 1 gal. of light medium summer horticultural oil per 100 gal. of water. Brown Mites, Clover Mites, European Red Mites: Use 1 lb. in 100 gals. of water. Apply as needed every 7 days. Leafcurl Plum Aphid, Mealy Plum Aphids, Thistle Aphids: Use 1/2-1 lb. in 100 gals. of water. Apply as needed every 7 days. 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 Mites: Use 1 lb. in 100 gals. of water per acre. Apply as pests occur. Repeat application, if necessary, after 7 days. Cyclamen Mites: Use 2 lbs. in 100 gals. of water per acre. Direct spray to the plant crowns. Plants should be sufficiently agitated to assure

thorough coverage of the foliage. Repeat application after 7 days if necessary. Mole Crickets: Use 2 lbs. per acre. Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil. Strawberry Leafrollers: Use 3/4-1 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. **WALNUTS (California only):** Aphids, Spider Mites: Use 2 lbs. in 100 gals. of water per acre. Apply as a foliar spray as needed. Repeat application in 14 days if necessary. Codling Moths, Scale Crawlers, Walnut Caterpillars: Use 6 lbs. in 100 gals. of water. per acre. Apply as a foliar spray as needed. Repeat applications in 14 days if necessary. Notes: (1) Do not make more than 3 applications per season. (2) Do not apply within 45 days of harvest or after husks open or illegal residues may occur.

VEGETABLE CROPS

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	PHI*
BEANS (Table)	10	5	14
BROCCOLI	10	5	10
BRUSSELS SPROUTS	10	5	7
CABBAGE	10	5	10
CANTALOUPE	5	5	3
CARROTS	10	5	14
CASABAS	5	5	3
CAULIFLOWER	10	5	10
CHINESE BROCCOLI	10	5	10
CHINESE CABBAGE	10	5	10
CHINESE MUSTARD	10	5	10
COLLARDS	10	5	10
CRENSHAW	5	5	3
CUCUMBERS	5	5	7
ENDIVE (Escarole)	10	5	14
HONEYDEW MELONS	5	5	3
KALE	10	5	10
LETTUCE (Head, Leaf)	10	5	14
MUSKMELONS	5	5	3
MUSTARD	10	5	10
ONIONS (Bulb, Green)	10	5	14
PARSLEY	10	5	14
PARSNIPS	10	5	14
PEAS (Succulent only)	10	5	7
PEPPERS	10	5	5
PERSIAN MELONS	5	5	3
POTATOES (Irish) **	10	5	35
RADISHES	10	5	14
SPINACH	10	5	14
SQUASH, SUMMER	5	5	7
SQUASH, WINTER	5	5	3
SWEET CORN	20	5	7
SWEET POTATOES	10	5	14
SWISS CHARD	10	5	14
TOMATOES	10	5	1
TURRIPS (Root, Tops)	10	5	14
WATERMELONS	5	5	3

*PHI = Preharvest Interval or the number of days between the last application and harvest.

** 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 number of applications per season.

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 crop 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 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.

BEANS (Lima, Pole, and Snap) (succulent only): Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Wireworms: Use 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: Use 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. 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. Note: Diazinon will not control organophosphate-resistant leafminers. Cucumber Beetles: Use 1/2-3/4 lb. per acre. Make cucumber beetle application in 100 gals. of water 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. 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. Leafhoppers, Spider Mites: Use 1 lb. 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. 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Aphids, Dipterous Leafminers: Use 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: Use 4-6 lbs. per acre. Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil. Root Maggots: 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 1/2-1 cup (4-8 ozs.) 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 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: Use 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.

BRUSSELS SPROUTS: Root Maggots: Use 4-6 lbs. per acre. Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil. Root Maggots: 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 1/2-1 cup (4-8 ozs.) 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: Use 4-8 lbs. per acre. Broadcast just before planting and incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 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, Use 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.

CABBAGE: Root Maggots: Use 4-6 lbs. per acre. Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil. Root Maggots: 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 1/2-1 cup (4-8 ozs.) 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 2 lbs. per acre. Apply to plant beds or field 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil. Wireworms: Use 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: Use 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 21 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

CARROTS: Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Carrot Rust Fly: Use 4 lbs. per acre. Apply as a drench to the seed furrow at planting. Aphids: Use 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: Use 4-6 lbs. per acre. Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil. Root Maggots: 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 1/2-1 cup (4-8 ozs.) 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 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: Use 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 (Gal Choy): Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers: Use 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. Note: Diazinon will not control organophosphate-resistant leafminers.

COLLARDS: Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 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: Use 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Wireworms: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Aphids, Serpentine Leafminers, Thrips, Stripped Cucumber Beetles, Melonworms: Use 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate 4-6 inches into soil. Aphids, Dipterous Leafminers: Use 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 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: Use 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.

LETTUCE (Head and Leaf): Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Aphids, Dipterous Leafminers: Use 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 (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Perslans, and Hybrids of these) and WATERMELONS: Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Wireworms: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Aphids, Dipterous Leafminers, Thrips, Stripped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites: Use 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: Use 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: Use 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: Use 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: Use 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: Use 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: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

PARSLEY: Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Wireworms: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

PARSNIPS: Aphids, Flea Beetles, Dipterous Leafminers: Use 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Wireworms: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Aphids, Dipterous Leafminers: Use 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Aphids, Serpentine Leafminers: Use 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 (Not for use on commercially grown potatoes which will be hand-harvested): Cutworms (surface and subterranean): Use 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.): Use 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: Use 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 35 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers. Banded Cucumber Beetles, Leafhoppers, Southern Armyworms: Use 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 35 days of harvest or illegal residues may occur.

RADISHES: Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 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: Use 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: Use 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Wireworms: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Aphids, Leafminers, Thrips, Stripped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites: Use 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: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Wireworms: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Aphids, Leafminers, Thrips, Stripped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites: Use 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.

SWEET CORN: Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Seed Corn Maggots: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 2 inches of soil. Wireworms: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Corn Earworms: Use 2-2 1/2 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: Use 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: Use 1 lb. per acre. Apply as insects occur. Repeat if necessary, but do not make more than 5 applications per season. Sap Beetles: Use 2-2 1/2 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: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

SWISS CHARD: Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Wireworms: Use 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: Use 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.

TOMATOES: Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 6-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. Aphids, Dipterous Leafminers: Use 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 one day of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers. Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms: Use 3/4-1 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. Vinegar

Flies (*Drosophila spp.*): Use 1/2-1 1/2 lbs. per acre. 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.

TURNIPS (Roots and Tops): Cutworms: Use 4-8 lbs. per acre. Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note. Mole Crickets: Use 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: Use 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: Use 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.

MUSHROOM HOUSES

MUSHROOM FLIES (Phoridae and Scleridae): 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

Apply soil and foliar applications of Gowan Diazinon 50 WSB in sufficient water to ensure thorough coverage for foliar applications. Observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season.

PRE-HARVEST INTERVALS (PHI)* FOR FOLIAR APPLICATIONS

CROP	PHI*
Hops	14
Sugar Beets	14

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

HOPS: Aphids, Spider Mites: Use 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: Use 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: Use 3/4-1 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: Use 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, WASTELAND, NONCROP AREAS, BARRIER STRIPS: Grasshoppers: Apply 3/4-1 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 1/2 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 GOWAN DIAZINON 50 WSB 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. 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, 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 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 Jose, Soft), Thrips, Two-spotted Spider Mites, Juniper Webworms, and Whiteflies: Use 1 lb. of GOWAN DIAZINON 50 WSB per 100 gals. water. For control of Apple and Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars: 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 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.

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 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 positive displacement injection pump (e.g., diaphragm pump) effectively designed and construction of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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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 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 the 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 injections 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.

NOTICE ON CONDITIONS OF SALE

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

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