

PM13

10163-100

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APR 29 1997

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

Dear Ms. Baker:

Subject: Amendment- Comply with Agency letter
dated November 22, 1996
Gowan Diazinon 4EC
EPA Registration Number 10163-100
Your submission dated January 28, 1997

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) In the Environmental Hazards revise "If waterfowl, i.e. ducks or geese, can be ..." to read "On lawns, if waterfowl (ducks or geese) can be ...".
 - b) In the directions for the crop Caneberries, delete the note "Do not make more than 5 applications per season." from under the entry for Leafhoppers, etc. Instead, add as the first note at the end of the directions for this crop, i.e., after the entry for Raspberry Crown Borers, that pertains to all the uses on this crop as follows:
 - Do not apply more than 2 qts. of product per acre per application and no more than 5 qts. of product per acre per season.

- c) For the crop Cherries, delete the note "Do not make more than 3 applications per season.". This contradicts the instructions for some uses to make 3 to 4 applications. Retain the rest of the notes as is.
- d) For the crop Cranberries, for Blackheaded Fireworms revise the RATE to read "2 qts. per acre" and in the COMMENTS replace "Apply when pest appears." with "Apply to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing.". Retain the rest of the text as is.
- e) Also for the crop Cranberries, for Cranberry Fruitworms revise the RATE to be "2-3 qts. per acre" and in the COMMENTS replace "Apply when pest appears." with "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.". and replace "A maximum of 4 applications per season is permitted." with "A maximum of 4 applications per season is permitted for the 3 qt. rate. A maximum of 6 applications is permitted for the 2 qt. rate.". Then add the following as the first note (retain the other 2 current notes):
- Do not apply more than 12 qts. of product per acre per season.
- f) For the crop Strawberries, for Aphids, etc., replace "Repeat application if necessary every 7 days." with "Repeat application, if necessary, after 7 days.". Also, for Cyclamen Mites delete "Application may be made to plants after harvest.". Such a post-harvest use is not supported by the residue data submitted. Replace the note "Do not make more than 3 applications per season." with the following:
- Do not apply more than 1 qt. of product per acre per application and no more than 4 qts. of product per acre per season.
- g) For the crop Walnuts replace the note "Do not make more than 3 applications per season." with "Do not apply more than 3 qts. of product per acre per application and no more than 9 qts. of product per acre per season.".
- h) For all Vegetable Crops entries that include a note about the number of applications per season, except for the crop Ginseng, revise the limitation to indicate "Do not make more than x foliar applications per season." rather than just "Do not make more than x applications per year.".

- i) For all Vegetable Crops entries that include the pest Mole Crickets, you may replace "Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil." with "One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.."
 - j) For all Vegetable Crops entries that include the pest Root Maggots, you may replace "Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil." with "Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil." Retain the rest of the directions for this pest as is.
 - k) For the crop Cauliflower, in the COMMENTS for Aphids, etc. delete "up to 5 times," and add as the first note for this crop "• Do not make more than 5 foliar applications per season."
 - l) For the crop Sweet Potatoes, delete the pest Flea Beetles appearing with Wireworms since soil incorporation is not appropriate as a control for the foliar pest Flea Beetles.
 - m) Under the heading INSECT CONTROL ON ORNAMENTALS, in the COMMENTS for Aphids, etc. add "Repeat as necessary." to appear after "dense foliage." Also, in the COMMENTS for Apple-and- Thorn Skeletonizers, etc. add "Repeat as necessary." to appear after "dense foliage."
 - o) In the LAWN PEST CONTROL Precautions, in the sixth sentence revise "If waterfowl, i.e., ducks or geese, can be" to read "If waterfowl (ducks or geese) can be" and revise "1/4 inch water" to "1/4 inch of water".
 - p) In the Lawn Pest Control table revise the COMMENTS for control of Frit Flies to read "For frit flies, before treatment mow grass and water well, but delay application until grass is dry."
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.

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

Sincerely,

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

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

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

GOWAN DIAZINON 4E

Insecticide

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

ACTIVE INGREDIENT: Diazinon:	% By Wt.
0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	48.0%
INERT INGREDIENTS*	52.0%
	TOTAL 100.0%

Contains 4 lbs. diazinon per gallon
*Contains xylene range aromatic solvent

KEEP OUT OF REACH OF CHILDREN
CAUTION

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

STATEMENT OF PRACTICAL TREATMENT
Organophosphate Insecticide

IF SWALLOWED: Call physician or Poison Control Center immediately. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia. Do not give anything by mouth if person is unconscious or convulsing.

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

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

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

NOTE TO PHYSICIAN: 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. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate, butyl or nitrile rubber \geq 14 mils, or Viton \geq 14 mils
- 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.

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

USER SAFETY RECOMMENDATIONS

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

ACCEPTED
with COMMENTS
in EPA Letter Dated

APR 29 1997 NET CONTENTS _____ LBS.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. EPA Est. No. 67545-AZ-1

10163-100



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

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ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of Atlantic coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping of sprays. If waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

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

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.

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

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI). Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

- Coveralls
- Chemical-resistant gloves, such as Barrier Laminate, butyl or nitrile rubber \geq 14 mils, or Viton \geq 14 mils
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

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

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

WORK SAFETY RULES

Repeated exposures to cholinesterase inhibitors such as are contained in this product may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. When handling Gowan Diazinon 4E, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See Statement of Practical Treatment section of this label.

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

PHYTOTOXICITY STATEMENT

As is common with most emulsifiable concentrate formulations, adverse effects such as spotting or discoloration of the fruit or foliage can occur. Some conditions known to contribute to phytotoxicity include, but are not limited to: high temperatures, poor spray drying conditions, excessive spray runoff, certain spray mixtures, stage of crop development or tank mixes with other pesticides.

RESISTANCE MANAGEMENT STATEMENT

Based on historical use patterns in some areas, certain pest species listed on this label may have developed resistance to Gowan Diazinon 4E. Consult your local agriculture advisor, State Cooperative Extension Service or regional Gowan Company representative for recommendations.

GENERAL INFORMATION

Gowan Diazinon 4E is an emulsifiable solution which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Do not use on food crops grown in greenhouses. Do not use in barns or dwellings. Do not use on livestock. In the directions for use which follow, best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

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

Note: The California Department of Agriculture has set a 5-day reentry period for diazinon on grapes, peaches, and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organophosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

CHEMIGATION

Refer to supplemental labeling entitled "APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

PREHARVEST INTERVAL

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

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

FRUIT AND NUT CROPS- REI 24 hours

Gowan Diazinon 4E may be applied using ground or aerial application equipment as specified in the following table. This table indicates the minimum amount of water that can be used for the various methods of application. The rate of Gowan Diazinon 4E for aerial spray or concentrated spray applied to fruit trees by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at a rate of 300-400 gals. of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the rate calls for 1 pt. of Gowan Diazinon 4E in 100 gals. of water, this amounts to 3-4 pts. of product per acre when applied at the 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 individual crops.

Crop	Aerial Application Min. GPA	Ground Application Min. GPA	
		Dilute	Concentrate
Almonds*	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
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

FRUIT AND NUT CROPS

CROP	INSECT	RATE	COMMENTS
ALMONDS (California only)	San Jose Scale, Parlatoria Scale	1-1½ pts. in 100 gals. water	Apply in 100 gals. water plus 2-3 gals. dormant oil or 1½ gals. superior type oil. Apply as dormant spray only.
<ul style="list-style-type: none"> • Do not apply more than 6 pts. of diazinon or 9 gals. of oil per acre. 			

FRUIT AND NUT CROPS

CROP	INSECT	RATE	COMMENTS
APRICOTS (21)	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gals. water	Apply as infestations occur. Repeat application after 14 days if necessary. Olive Scale Crawlers: Use 1/2 pt. plus 1 1/2 gals. of light medium horticultural oil per 100 gals of water. Apply when scale crawlers are present.
	Apricot Mealybugs		Apply as a cover spray from petal fall to June. Allow 14 days between applications.
<ul style="list-style-type: none"> Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			

CANE BERRIES (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (California, Oregon and Washington only) (7)	Leafhoppers, Thrips, Aphids, Two-spotted Spider Mites, Raspberry Fruitworms, Raspberry Sawflies	1 qt. per acre	Apply as insects occur. Repeat application after 14 days if necessary. Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum). For Raspberry Fruitworms 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 Mites	1-2 qts. per acre	Apply as a dormant spray in the early spring when canes are still on the ground and buds are closed. Make a second application when buds are well developed but still closed. Apply in a minimum of 100 gals. of water per acre.
	Raspberry Crown Borers (Raspberry Root Borers)	2 qts. per acre	Apply a single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the spring before buds break.
NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.			

CHERRIES (21)	Eyespotted Bud Moths, Fruittree Leafrollers	1 pt. in 100 gals. water	Apply in cover spray as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.
	Leafhopper	1 pt. in 100 gals. water	Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.
	Cherry Fruitflies	1/2-1 pt. in 100 gals. water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals.
	Black Cherry Aphids	1 pt. in 100 gals. water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.
	San Jose Scale Crawlers	1 pt. in 100 gals. water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mites	1/2-1 pt. in 100 gals. water	Apply to trees as a single supplemental spray after harvest.
	<ul style="list-style-type: none"> Do not make more than 3 applications per season. Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		

FRUIT AND NUT CROPS

CROP	INSECT	RATE	COMMENTS
CRANBERRIES (7)	Blackheaded Fireworms (<i>Rhopobota neavans</i>)	2 qts.	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 Fruitworms, Cranberry Tipworm	3 qts.	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 application per season is permitted.
<ul style="list-style-type: none"> NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. Do not use water from irrigated or flooded cranberry bed for drinking purposes or to irrigate crops other than those appearing on EPA approved Diazinon labels. 			

GRAPES (28)	Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafrollers, Omnivorous Leafrollers, Aphids, Spider Mites	1-2 pts. per acre in 100 gals. water	Apply as pest occurs as a thorough cover spray. Repeat application after 7 days if necessary.
	<i>Drosophila</i> spp.	6 fl. oz.	Use per acre in a minimum of 100 gals. of water (300 gals. of water maximum). Apply as pest occurs as a thorough cover spray. Repeat application after 7 days if necessary.
<ul style="list-style-type: none"> Do not apply more than 2 pts. of product per acre per application and no more than 10 pts. per acre per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			

NECTARINES (21)	Oriental Fruit Moths	1 pt. in 100 gals. water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight.
	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers		Apply as infestations occur. Repeat application after 14 days if necessary.
<ul style="list-style-type: none"> Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. per acre per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			

PEACHES (21)	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gals. water	Apply as infestations occur. Repeat application after 14 days if necessary.
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FRUIT AND NUT CROPS

CROP	INSECT	RATE	COMMENTS
PEACHES (continued)	Oriental Fruit Moths	1 pt. in 100 gals. 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		Apply as insects occur in May and June. Allow 7 days between applications.
	Leafhoppers		Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications.
	White Peach Scale	1½-2 pts. in 100 gals. water	Apply postharvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation, 2 applications (7 days apart) may be needed. Do not apply before fruit is harvested.
<ul style="list-style-type: none"> Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
PLUMS (21)	Brown Mites (Clover Mites), European Red Mites	1 pt. in 100 gals. water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	½-1 pt. in 100 gals. water	
<ul style="list-style-type: none"> Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
PRUNES (21)	Brown Mites (Clover Mites), European Red Mites	1 pt. in 100 gals. water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	½-1 pt. in 100 gals. water	
<ul style="list-style-type: none"> Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
STRAWBERRIES (5)	Aphids, Two-spotted Spider Mites	1 pt. in 100 gals. water per acre	Apply as pests occur. Repeat applications if necessary every 7 days.
	Cyclamen Mites	1 qt. in 100 gals. water per acre	Direct spray to the plant crown. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat application after 7 days if necessary. Application may be made to plants after harvest.
	Mole Crickets	1 qt. per acre	Broadcast in sufficient water to obtain even coverage when insects are present. Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.

FRUIT AND NUT CROPS

CROP	INSECT	RATE	COMMENTS
STRAWBERRIES (continued)	Strawberry Leafrollers	¾-1 pt. in 100 gals. water	Apply 200 gals. of spray per acre when blossoms show color.
	<ul style="list-style-type: none"> Do not make more than 3 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
WALNUTS (California only) (45)	Aphids, Spider Mites	1 qt. per acre	Apply as a foliar spray. Repeat application in 14 days if necessary.
	Codling Moths, Scale Crawlers, Walnut Caterpillars	3 qts. per acre	
<ul style="list-style-type: none"> Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open or illegal residues may occur. Make ground application in a minimum of 100 gals. of water per acre. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			

VEGETABLE CROPS- REI 24 hours

For foliar or soil applications, Gowan Diazinon 4E should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Gowan Diazinon 4E may be applied using ground or aerial application equipment as specified in the following table. This table indicates the minimum amount of water that can be used for the various methods of application. The specific amount of product to be used appears under the separate directions for use for each crop.

Crop	Ground Application Min. GPA	Min. Gals./ 1000 Sq. Ft. (Ground)	Aerial Application Min. GPA
Beans (Lim. Pole and Snap) (succulent only)	10	2	5
Beets, Red (Table)	10	2	5
Broccoli	10	2	5
Brussels Sprouts	10	2	5
Cabbage	10	2	5
Cantaloupes	5	1	5
Carrots	10	2	5
Casabas	5	1	5
Cauliflower	10	2	5
Chinese Broccoli	10	2	5
Chinese Cabbage	10	2	5
Chinese Mustard	10	2	5
Chinese Radish (CA and FL only)	10	2	5
Collards	10	2	5
Cornshaws	5	1	5
Cucumbers	5	1	5
Endive (Escarole)	10	2	5
Ginseng	10	2	5
Honeydew Melone	5	1	5
Kale	10	2	5
Lettuce, Head	10	2	5
Lettuce, Leaf	10	2	5
Muskmelon	5	1	5
Mustard	10	2	5
Onions (Bulb and Green)	10	2	5
Parsley	10	2	5
Parsnips	10	2	5
Peas (succulent only)	10	2	5

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Crop	Ground Application Min. GPA	Min. Gals./ 1000 Sq. Ft. (Ground)	Aerial Application Min. GPA
Peppers	10	2	5
Persian Melons	5	1	5
Potatoes (Irish)	10	2	5
Radishes	10	2	5
Spinach	10	2	5
Squash, Summer	5	1	5
Squash, Winter	5	1	5
Sweet Corn	20	4	5
Sweet Potatoes	10	2	5
Swiss Chard	10	2	5
Tomatoes	10	2	5
Turnips	10	2	5
Watermelons	5	1	5

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

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season. Do not apply to food crops grown in greenhouses.

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 directions for individual crops) 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 if these crops or weeds in the treatment area are in bloom or to corn during the pollen shed period. (3) Diazinon will not control organophosphate-resistant leafminers.

VEGETABLE CROPS

CROP	INSECT	RATE/ ACRE	COMMENTS
BEANS (Lima, Pole, and Snap) (succulent only) (7)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers	1-1 1/2 pts.	
	Cucumber Beetles	3/4 pt.	Apply in 100 gals. of water per acre and as insects occur. Repeat application, as necessary, every 5 days.
BEANS (Lima) (succulent only) (7)	Leafhoppers, Spider Mites	1 pt.	Apply as pests occur. Repeat application, as necessary, every 5 days.

• Do not make more than 3 applications per season.
 • 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.
 • To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.
 • NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION.

VEGETABLE CROPS

CROP	INSECT	RATE/ ACRE	COMMENTS
BEETS, RED (Table) (14)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or field 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
BROCCOLI (7)	Root Maggots	2-3 qts.	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil. Use 4-8 oz. 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 to 8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> • Do not make more than 5 applications per season. • NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		

VEGETABLE CROPS

CROP	INSECT	RATE/ACRE	COMMENTS
BRUSSELS SPROUTS (7)	Root Maggots	2-3 qts.	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil. Use 4-8 oz. 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 to 8 oz.) per plant by hand or by tractor-mounted spray 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 the time of transplanting.
	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
CABBAGE (21)	Root Maggots	2-3 qts.	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil. Use 4-8 oz. 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 to 8 oz.) per plant by hand or by tractor-mounted spray 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 the time of transplanting.
	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		

VEGETABLE CROPS

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CROP	INSECT	RATE/ACRE	COMMENTS
CABBAGE (continued)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
CARROTS (14)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids	1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
CAULIFLOWER (7)	Root Maggots	2-3 qts.	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil. Use 4-8 oz. 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 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	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat applications, as necessary, up to 5 times, with a minimum of 7 days between applications.
<ul style="list-style-type: none"> NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			

VEGETABLE CROPS

CROP	INSECT	RATE/ACRE	COMMENTS
CHINESE BROCCOLI (10)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
CHINESE CABBAGE (Bok Choy and Napa) (10)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
CHINESE M' YARD (C. Choy) (10)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
CHINESE RADISH (Japanese Radish or Daikon) (FL and CA only) (10)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1 pt.	Mix in a minimum of 100 gals. of water per acre and apply as a foliar spray as pests occur. Repeat application as necessary, every 14 days.
	<ul style="list-style-type: none"> Do not make more than 3 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
CO' YARDS (1)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Bugs, Corn Earworms	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		

VEGETABLE CROPS

CROP	INSECT	RATE/ACRE	COMMENTS
CUCUMBERS (7)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms	1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
ENDIVE (Escarole) (14)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
GINSENG (30)	Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice	3/4-1 pt.	Spray when insects first appear. For heavy insect infestations, use 1 pt. per acre. Apply by ground equipment using 10-100 gals. of water per acre.
	<ul style="list-style-type: none"> Do not apply more than one application per growing season. Do not apply during flowering of three or four year old crops. Do not graze treated areas or feed treated forage to livestock. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
KALE (10)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

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CROP	INSECT	RATE/ACRE	COMMENTS
KALE (continued)	Aphids, Diamondback Moths, Imported Cabbageworms, Hadequin Bugs, Corn Earworms	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
LETTUCE (head and leaf) (14)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
MELONS (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and hybrids of these), WATERMELONS (3)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
MUSTARD (10)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworms	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			

CROP	INSECT	RATE/ACRE	COMMENTS
ONIONS (Bulb and Green) (14)	Onion Maggots	2-4 qts.	Broadcast just before planting and mix into the top 3-4 inches of soil. Note: Diazinon will not control organophosphate-resistant onion maggots.
	Onion Thrips	1 pt.	Apply as thrips appear. Repeat application, as necessary, every 7 days.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> Do not make more than 3 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
PARSLEY	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
<ul style="list-style-type: none"> NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
PARSNIP (14)	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
PEAS (succulent only) (7)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	3/4-1 pt.	Apply as insects occur. Repeat application, as necessary, every 5 days.
<ul style="list-style-type: none"> Do not make more than 3 applications per season. 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: To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
PEPPERS (5)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

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CROP	INSECT	RATE/ACRE	COMMENTS
PEPPERS (continued)	Aphids, Serpentine Leafminers	1/2-1 pt.	Apply as insects appear. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
POTATOES (35)	Cutworms (Surface and Subterranean)	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Southern Potato Wireworms (Southeastern U.S.)	2-4 qts.	For potatoes grown on mineral soils in the Southeast, apply before planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.
	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	1/2-3/4 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	Banded Cucumber Beetles, Leafhoppers, Southern Armyworms	3/4-1 pt.	Apply as insects occur. Repeat application as necessary, every 7 days.
<ul style="list-style-type: none"> Do not make more than 5 applications per season. Note: Do not use on commercially grown potatoes which will be hand-harvested. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
RADISHES (14)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 3 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
SPINACH (14)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

VEGETABLE CROPS

CROP	INSECT	RATE/ACRE	COMMENTS
SPINACH (continued)	Aphids, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
SQUASH, SUMMER (7) WINTER (3)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	1/2-1 1/2 pts.	Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
SWEET CORN (7)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Seed Corn Maggots	2-4 qts.	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	3-4 qts.	Broadcast before planting and immediately incorporate into the top 4-8 inches of soil.
	Corn Earworms	1-1 1/4 qts.	Apply when silks first appear. Repeat application every 7 days if necessary.
	Corn Rootworm (Adults)	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	Corn Leaf Aphids	1-2 pts.	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat application, as necessary, every 7 days.
	Grasshoppers, Spider Mites, Flea Beetles	1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	Sap Beetles	2-2 1/2 pts.	Consult local agricultural authorities for proper timing of sprays. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> 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 7 days after the last application before grazing or cutting for forage. Forage may be fed to beef and dairy cattle and sheep. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			

VEGETABLE CROPS

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CROP	INSECT	RATE/ACRE	COMMENTS
SWEET POTATOES	Wireworms, Flea Beetles	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
SWISS CHARD (14)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Bugs	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
TOMATOES (1)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 pt.	Apply as insects appear. Repeat application, as necessary, every 7 days.
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	3/4-1 pt.	Apply as insects appear. Repeat application, as necessary, every 7 days.
	Vinegar Flies (<i>Drosophila</i> spp.)	1/2-1 1/2 pts.	Apply as insects appear. Repeat application, as necessary, every 7 days.
	<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 		
	TURNIPS, (roots and tops) (14)	Cutworms	2-4 qts.
Mole Crickets		1 qt.	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
Wireworms		3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

CROP	INSECT	RATE/ACRE	COMMENTS
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> Do not make more than 5 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			

FIELD CROPS- REI 24 HOURS

Soil and foliar applications of Gowan Diazinon 4E should always be applied as a spray in sufficient water to ensure thorough coverage. For foliar applications, observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season.

FIELD CROPS

CROP	INSECT	RATE/ACRE	COMMENTS
HOPS (14)	Aphids, Spider Mites	1 qt.	Apply as pests occur. Repeat application, as necessary, every 14 days.
<ul style="list-style-type: none"> Do not make more than 4 applications per season. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			
SUGAR BEETS (14)	Wireworms	3-4 qts.	Broadcast just before planting. Incorporate into soil 4-8 inches.
	<ul style="list-style-type: none"> Do not apply more than 4 qts. of this product to the soil per season. 		
	Aphids, Beet Leafhoppers, Dipterous Leafminers	3/4-1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
	Grasshoppers	1 pt.	Apply as insects occur. Repeat application, as necessary, every 7 days.
<ul style="list-style-type: none"> Do not make more than 5 applications per season. Note: Tops may be fed to beef and dairy animals. NOTE: For application by irrigation systems, apply specified dosage per acre. Follow all directions under the Supplemental labeling, APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION. 			

GRASSLAND INSECTS

AREA	INSECT	RATE/ACRE	COMMENTS
DITCH BANKS, ROADSIDES, WASTELAND, NONCROP AREAS, BARRIER STRIPS	Grasshoppers	3/4-1 pt.	Spray in water (minimum of 1 gal. of water per acre) for aerial applications or a minimum of 5 gals. of water per acre for ground applications or in oil (a minimum of 1 gal. of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential.
<ul style="list-style-type: none"> Do not graze or use treated grass for forage or feed. 			

ORNAMENTAL STATEMENT

Before treating a large number of ornamental plants with Gowan Diazinon 4E alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7 to 10 days prior to treating large areas to reduce the possibility of plant injury.

INSECT CONTROL ON ORNAMENTALS- REI 12 HOURS

CROP	INSECT	RATE	COMMENTS
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	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 Leaf-tiers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mites, Juniper Webworms, Whiteflies	½ fl. oz. per 3 gals. water or 1 pt. per 100 gals. of water	Try to spray underside of leaves and penetrate dense foliage.
	Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Oblique-banded Leafrollers, Pear Slugs, Tent Caterpillars	1½ fl. ozs. per 3 gals. of water or 3 pts. per 100 gals. of water	Try to spray underside of leaves and penetrate dense foliage.
	Mimosa Webworms	½ fl. oz. in 3 gals. of water (or 1 pt. in 100 gals. of water)	Apply as a thorough foliar spray when adults first appear. Try to spray underside of leaves and penetrate dense foliage. Make a second and third application at 4-5 week intervals..
<ul style="list-style-type: none"> Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur. <p>Note: 1 fl. oz. = 2 tablespoons; 16 fl. oz. = 1 pint</p>			

LAWN PEST CONTROL

(Excluding Golf Courses and Sod Farms)

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

INSECT	RATE/1,000 SQ. FT.	COMMENTS
Lawn Chinch Bugs	2-3 fl. ozs.	Apply in 3 gals. of water. Use higher rate for longer residual control and in lawns of dense growth such as St. Augustine lawns.
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs), Springtails (Collembola)	2-3 fl. ozs.	Apply in 3 gals. of water. Spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk when wasps are not active. For frit flies, mow grass and water well before treatment, but delay application until grass is dry. For billbug control, apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.

15/16

INSECT	RATE/1,000 SQ. FT.	COMMENTS
Brown Dog Ticks, Chiggers, Fleas	3 fl. oz.	Apply in 3 gals. of water. For brown dog ticks, spray grass and under shrubbery, particularly near house. • Do not apply to animals.
Hyperodes Weevils	3 fl. ozs.	Apply in 3 gals. of water. Treat problem areas in mid-April and again in mid-May.
Millipedes	3 fl. ozs.	Apply in 3 gals. of water.
Rhodesgrass Scales	3 fl. ozs.	Apply in 3 gals. of water. Apply when crawlers first emerge.
White Grubs (such as Japanese Beetle Larvae, European Chafer, Southern Chafer)	3 fl. ozs.	Apply in 3 gals. of water. Apply any time between late July and early October.

NUISANCE PESTS IN OUTSIDE AREAS

INSECT	RATE	COMMENTS
Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails (Collembola)	3 fl. ozs.	Apply in 3 gals. of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide. To prevent entry into houses, spray a five-foot band of soil around the house next to the foundation and spray the foundation of the house to a height of 2-3 feet. Repeat application as necessary. • Do not apply to animals. • Do not treat plants (other than tree trunks) at this nuisance pest rate.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
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 rinsate cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL: Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or incinerate, or burn, if allowed by state and local authorities. Stay out of smoke from burning container.
 For minor spills, leaks, etc. follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

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.

01-R0995

SUPPLEMENTAL LABELING APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION GOWAN DIAZINON 4E EPA. Reg. No. 10163-100

APPLICATION THROUGH IRRIGATION SYSTEMS CHEMIGATION

Apply this product only through sprinkler, including center pivot, lateral move, and tow side (wheel) roll, traveler, big gun, solid set, or hand move, flood (basin); furrow; border; or drip (including surface and subsurface) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform 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 an irrigation system (including greenhouse systems) 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 should the need arise.

Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water.

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products.

On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and stage of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues.

Meter this product into the irrigation water uniformly during the period of operation. Do not overlap application. Follow recommended label rates, application timing, and other directions and precautions for crop being treated.

Continuous mild agitation of pesticide mixture may be needed to assure a uniform application, particularly if the supply tank requires a number of hours to empty.

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

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Gowan Company does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before deciding to make such a connection.

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 downstream from a 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 a reservoir tank of at least twice the inside diameter of the fill pipe.

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 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 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, or areas where there is no water pump, 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.

SPRINKLER CHEMIGATION (FOLIAR SPRAY USES)

The system must contain a functional check valve, vacuum relief valve, and 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.

FLOOD (BASIN) FURROW AND BORDER CHEMIGATION (SOIL DRENCH USES)

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- The system must contain a functional check valve, 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.

DRIP (INCLUDING SURFACE AND SUBSURFACE) CHEMIGATION (SOIL DRENCH USES)

The system must contain a functional check valve, 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 pipe 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.