



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

EPA Reg. Number:

Date of Issuance:

48273-25

JAN 30 1998

NOTICE OF PESTICIDE:

- Registration
- Reregistration

Term of Issuance:

Conditional

Name of Pesticide Product:

Marman Diazinon AG 60 EC

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Marman USA, Inc.
5041 W. Cypress Street
Tampa, FL 33607-3803

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

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

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

1. Submit and/or cit all data or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) of FIFRA sec. 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:
 - a. Add the phrase "EPA Registration No. 48273-25".
 - b. In the Environmental Hazards, revise "if waterfowl, i.e., ducks or geese, can be" to "if waterfowl (ducks or geese) can be".
 - c. Under the Fruits and Nuts PHI table, in the footnote definition of PHI add "to wait" between "days" and "between".

Signature of Approving Official:

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

Date:

d. For almonds, revise the first sentence of the Timing/Special Directions to read "Apply only as a single dormant spray".

e. In the directions for Apricots, revise the pest name "San Jose Crawlers" to "San Jose Scale Crawlers" and revise "Tow-spotted spider mites" to "Two spotted spider mites".

f. For Caneberries, in the Timing/Special Directions for Leafhoppers, delete "Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.". In the Timing/Special Directions for Dryberry Mites, delete "Do not apply within 7 days of harvest or illegal residues may occur.". Then add a Notes section for Caneberries as follows:

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

g. For the crop Cranberries, in the Timing/Special Directions for control of Blackheaded Fireworms, 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, except that you may chose to delete the PHI sentence and have it appear in the revised NOTES (see I. below).

h. Also for the crop Cranberries, the directions for control of Cranberry Fruitworms must be separate from those for Cranberry Tipworms since the rate and directions vary. For Cranberry Fruitworms the rate should be 2-3 qts. and in the Timing/Special Directions replace the current text 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. Repeat application every 14 days, as needed. 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.". For Cranberry Tipworms the Rate should be 2 qts. and replace the text of the Timing/Special Directions with "Presence of damage is not an indication of active infestation. For best results, target early-stage larvae.". Both of these revised directions do not include the PHI sentence since it will appear in the Notes. Revise the NOTES: to "NOTES: (1) Do not apply more than 12 qts. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest. (3) This product may be applied to cranberries through sprinkler irrigation. Refer to the section Chemigation for specific chemigation directions for use."

i. For Grapes, revise the first sentence of both the Timing/ Special Directions entries to read "Apply as a thorough cover spray when pests occur."

j. In the Timing/Special Directions for Aphids on Nectarines, revise the retreatment time to "after 14 days".

k. For Strawberries, replace the Timing/Special Directions for Aphids and Two-Spotted Spider Mites with the following (see also "p" below):

Apply as pests occur. Repeat application, if necessary, after 7 days.

l. For Strawberries, in the Timing/Special Directions for Cyclamen Mites, delete "Do not make more than 3 foliar applications per season. Do not apply within 5 days of harvest or illegal residues may occur. Application may be made to plants after harvest."

m. For Strawberries, replace the Timing/Special Directions for Mole Crickets with the following:

One to two days before planting, broadcast in sufficient water to obtain even coverage and immediately incorporate into the top 1-2 inches of soil.

n. For Strawberries, in the Timing/Special Directions for Strawberry Leafrollers, delete "Do not apply within 5 days of harvest or illegal residues may occur."

o. For the crop Strawberries, add the following Notes (you may choose to delete the PHI information from each Timing/Special Directions since it will appear in the Notes):

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 5 days between the last application and harvest.

p. For the crop Walnuts, in the first sentence of the Timing/Special Directions delete "as needed".

q. For Walnuts, delete the following from the Timing/Special Directions: "Do not make more than 3 applications per season Do not apply with 45 days of harvest or after husks open or illegal residues may occur.". Then add a Notes section for this crop as follows:

Notes: (1) 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. (2) To avoid illegal residues, allow a minimum of 45 days between the last application and harvest, and do not apply after the husks open.

r. Under the Vegetable Crops PHI table, in the footnote definition of PHI add "to wait" between "days" and "between".

s. Throughout the Timing/Special Directions for Vegetable Crops with foliar application directions add "per season" after "up to 5 times" or "up to 3 times".

t. Throughout the Vegetable Crops specific directions, for every entry for control of Mole Crickets, revise the Timing/Special Directions for this pest to read as follows:

One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.

u. Throughout the Vegetable Crops specific directions, for every entry for control of Root Maggots, revise the Timing/Special Directions for this pest to read as follows:

Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.

v. For Carrots, correct the Rate entry for Cutworms to show 2-4 qts. per acre.

w. For Cauliflower, correct the Rate entry for Root Maggots to show 2-3 qts. per acre.

x. For Mustard, correct the Rate entry for Mole Crickets to show 1 qt. per acre.

y. For the crop Onions, in the Timing/Special Directions for control of Onion Maggots delete "(see Soil Incorporation Note)", since the depth of incorporation is already given in the specific directions.

z. For the crop Sweet Corn, in the second item of the NOTES after "...cutting for forage." add "Forage may be fed to beef and dairy cattle and sheep."

aa. Under the Field Crops PHI table, in the footnote definition of PHI add "to wait" between "days" and "between".

bb. In the Field Crops section, revise the footnote to read "Note: Sugar beet tops may be fed to beef and dairy animals."

cc. For Grassland Insects, relocate the closing parenthesis mark ")" from after "of water per acre" to appear after "for ground applications".

dd. Under the heading Insect Control on Ornamentals, add "Spray when listed pests first appear." after "...rates indicated below.". Add "Repeat as necessary." after "...dense foliage.". Also, relocate the Precaution about potential injury to certain plants up to appear as a separate paragraph directly after "Repeat as necessary.".

ee. In the Precautions under the heading Lawn Pest Control, revise "if waterfowl, i.e., ducks or geese, can be" to "if waterfowl (ducks or geese) can be".

ff. Over the Lawn Pest Control table, after "... apply recommended rates." add "Repeat as necessary.".

3. Under the heading PERSONAL PROTECTIVE EQUIPMENT, similar products show "category F" while your label indicates category G (see also EPA Reg. No. 51036-71). Is something about the specific composition of your product that is the reason for this variance?

4. Submit three (3) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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

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

Enclosure

**RESTRICTED USE PESTICIDE
DUE TO AVIAN AND AQUATIC TOXICITY**

For retail sale to and use by Certified Operators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification.

**MARMAN
DIAZINON AG 60 EC**

ORGANOPHOSPHATE

ACTIVE INGREDIENT:

Diazinon: O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate 48.0%

INERT INGREDIENTS*: 52.0%

Total 100.0%

*Contains xylene range aromatic solvent
Contains 4 lbs. of Diazinon per gallon.

**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 this label, find someone to explain it to you in detail.)

See back panel for additional precautionary statements.

NET CONTENTS: _____ LBS.

EPA Reg. No. 48273-FL EPA Est. 51036-GA-1

Sold by
MARMAN USA, INC.
P.O. Box 22829
Tampa, FL 33622-2829

ACCEPTED
with COMMENTS
in EPA Letter Dated

JAN 30 1998

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
48273-25

[Back Panel]

**PRECAUTIONARY STATEMENTS
Hazards to Humans & 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. May cause contact sensitization following repeated contact with skin. If sensitization reactions result, consult a physician. Avoid contamination of food or feed. Food utensils, such as tablespoons and measuring cups must 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 G on an EPA chemical resistance category selections chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier Laminate or Viton ≥ 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.

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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Statement of Practical Treatment

If Swallowed: Call a 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 person 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:** Rinse eyes with plenty of water. Call a physician if irritation persists. **Note to Physician:** If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is anticholinergic. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains xylene range aromatic solvent which may present aspiration hazard. Gastric lavage may be indicated if product was taken internally.

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. Apply this product only as specified on this label. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, NY between 11/1 and 5/20. Do not exceed maximum permitted label rates since rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, if waterfowl, i.e., ducks and geese, can be expected in the treated area after treatment (except spot treatment) water lawn with at least ¼ inch of water immediately after spraying this product; however, 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 residues on blooming plants. Do not apply this pesticide or allow it to drift to blooming plants 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 use 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 24 hours.

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 or Viton \geq 14 mils
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements of 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. Keep children, pets and other unprotected persons out of treated areas until sprays have dried.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

STORAGE: Do not store near fertilizer, fungicides, seeds or other insecticides. Do not reuse container. Do not ship with or store near foodstuffs. **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:** Triple rinse, or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

GENERAL INFORMATION

This product 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.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-888-8372 day or night.

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

CHEMIGATION

Application Through an Irrigation System (Chemigation) - Cranberries Only

This product 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 five minutes. If the combination remains mixed, or can be readily remixed, 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 waste system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments, if the need arises.

Chemigation System Connected to Public Water Systems

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

Sprinkler Chemigation

1. The system must contain a functional check valve, a vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent waste source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

Operating Instructions

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

FRUIT AND NUT CROPS
REI - 24 Hours

This product 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 this product for aerial spray or concentrated spray applied by ground equipment is based on a dilute full cover spray applied to fruit or nut trees with conventional ground equipment at a rate of 300-400 gallons of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the *Rate* calls for 1 pint of this product per 100 gallons of water, this equals 3-4 pints of product per acre when applied to fruit trees at usual dilute ground spray volumes of 300-400 gallons of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the *Timing/Special Directions* for use for individual crops.

CROP	AERIAL APPLICATION MINIMUM GALS./ACRE	GROUND APPLICATION MINIMUM GALS./ACRE	
		DILUTE	CONCENTRATE
Almonds*, Apricots, Blackberries**, Boysenberries**, Cherries, Dewberries**, Grapes, Loganberries**, Nectarines, Peaches, Plums, Raspberries**, Strawberries, Walnuts*	20	100	20
Cranberries	20	15	--

*CA only
**CA, OR or WA only

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

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

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

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

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Almonds (CA only)	San Jose Scale, Parlatoria Scale	1 - 1½ pt. plus 2 - 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 6 lbs. of product or 9 gals. of oil per acre.
Apricots	Aphids, Brown Mites (Clover Mites), Olive Scale Crawlers, San Jose Crawlers, Tow-Spotted Spider Mites	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Olive Scale Crawlers	½ pt. plus 1½ gals. of light medium horticultural oil in 100 gals. of water	Apply when scale crawlers are present.
	Apricot Mealybugs	1 pt. 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 pts. of product per acre per application and no more than 12 pts. of product per acre per season; (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.			
Caneberries (CA, OR and WA only): Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries	Aphids, Leafhoppers, Raspberry Fruitworms, Thrips, Two-Spotted Spider Mites	1 qt. per acre	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. Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum). For raspberry fruitworm, make one application when blossom buds separate. Make a second application immediately before blossoms open.
	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. Do not apply within 7 days of harvest or illegal residues may occur.
	Raspberry Crown Borers (Raspberry Root Borers)	2 qts. per acre	Apply in a single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the spring before buds break.
Cherries	Eyespotted Bud Moths, Fruit Tree Leafrollers	1 pt. in 100 gals. of water	Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.
	Leafhoppers	1 pt. 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	½ - 1 pt. 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	1 pt. in 100 gals. of water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.
	San Jose Scale Crawlers	1 pt. in 100 gals. of water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mites	½ - 1 pt. in 100 gals. of water	Apply as a single supplemental spray to trees after harvest.
	Notes: (1) Do not make more than 3 applications per season; (2) 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; (3) Allow a minimum of 21 days between the last application and harvest.		

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Cranberries	Blackheaded Fireworms	2 qts. 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. Do not apply within 7 days of harvest or illegal residues may occur.
	Cranberry Fruitworms, Cranberry Tipworms	3 qts. 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. Do not apply within 7 days of harvest or illegal residues may occur.
Notes: This product may be applied to cranberries through sprinkler irrigation. Refer to the section entitled <i>Chemigation</i> for specific chemigation directions for use.			
Grapes	Aphids, Grape Berry Moths, Grape Leaffolders, Leafhoppers, Omnivorous Leafrollers, Pacific Spider Mites, Spider Mites	1 - 2 pts. per acre in a minimum of 100 gals. of water (200 gals. of water maximum)	Apply as pests occur as a thorough cover spray when pest appears. Repeat application after 7 days if necessary.
	Drosophila spp.	6 fl. oz. per acre in a minimum of 100 gals. of water (300 gals. of water maximum)	Apply as a thorough cover spray. Repeat after 7 days if necessary.
Notes: (1) Do not apply more than 2 pts. of product per acre per application and no more than 10 pts. of product per acre per season; (2) To avoid illegal residues, allow a minimum of 28 days between the last application and harvest. The California Department of Pesticide Regulation has set a 5-day reentry to diazinon insecticide on grapes. Five days should lapse 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 organic pesticides are applied in combination, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.			
Nectarines	Aphids, Brown Mites (Clover Mites), Olive Scale Crawlers, Peach Twig Borers, San Jose Scale Crawlers, Two-Spotted Spider Mites	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 7 days if necessary.
	Oriental Fruitmoths	1 pt. in 100 gals. of water	Apply at 100% petal fall. Make two additional applications at 10-15 day intervals. Time the last application to peak adult flight.
Notes: (1) 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; (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest. The California Department of Pesticide Regulation has set a 5-day reentry to diazinon insecticide on nectarines. Five days should lapse 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 organic pesticides are applied in combination, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.			
Peaches	Aphids, Brown Mites (Clover Mites), Olive Scale Crawlers, San Jose Scale Crawlers, Two-Spotted Spider Mites	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Oriental Fruit Moths	1 pt. in 100 gals. of water	Apply at 100% petal fall. Make two additional applications at 10-15 day intervals. Time the last application to peak adult flight.
	Peach Twig Borers	1 pt. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between applications.
	Leafhoppers	1 pt. 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	1½ - 2 pts. in 100 gals. of water	Apply post harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations 2 applications (7 days apart) may be needed. Do not apply before fruit is harvested.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Peaches (continued)	Notes: (1) 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; (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest. The California Department of Pesticide Regulation has set a 5-day reentry to diazinon insecticide on peaches. Five days should lapse 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 organic pesticides are applied in combination, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.		
Plums	Brown Mites, Clover Mites, European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	½ - 1 pt. in 100 gals. of water	
Notes: (1) 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; (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.			
Prunes	Brown Mites, Clover Mites, European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	½ - 1 pt. in 100 gals. of water	
Notes: (1) 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; (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.			
Strawberries	Aphids, Two-Spotted Spider Mites	1 pt. in 100 gals. of water per acre	Apply as pests occur. Repeat application if necessary every 7 days, but do not make more than 3 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.
	Cyclamen Mites	1 qt. 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. Do not make more than 3 foliar applications per season. Do not apply within 5 days of harvest or illegal residues may occur. 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.
	Strawberry Leafrollers	¾ - 1 pt. in 100 gals. of water	Apply 200 gals. of spray per acre when blossoms show color. Do not apply within 5 days of harvest or illegal residues may occur.
Walnuts (CA only)	Aphids, Spider Mites	1 qt. per acre	Apply as a foliar spray as needed. Repeat application in 14 days if necessary. Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open or illegal residues may occur. Make ground applications in a minimum of 100 gals. of water per acre.
	Codling Moths, Scale Crawlers, Walnut Caterpillars	3 qts. per acre	

VEGETABLE CROPS

REI - 24 hours

For foliar or soil applications, this product should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. This product may be applied aerially or by ground application as specified in the following table. The specific amount of product to be used appears under the separate directions for use for each crop.

CROP	GROUND APPLICATION		AERIAL APPLICATION
	MINIMUM GALS./ACRE	MINIMUM GALS 1,000 SQ. FT.	
Cantaloupes, Casabas, Crenshaws, Cucumbers, Honeydew Melons, Muskmelons, Persian Melons, Squash (summer), Squash (winter), Watermelons	5	1	5
Beans (Lima, Pole and Snap - succulent only), Beets (Red Table), Broccoli, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Chinese Broccoli, Chinese Cabbage, Chinese Mustard, Collards, Endive (Escarole), Kale, Lettuce (Head and Leaf), Mustard, Onions (Bulb and Green), Parsley, Parsnips, Peas (succulent only), Peppers, Potatoes (Irish)*, Radishes, Spinach, Sweet Potatoes, Swiss Chard, Tomatoes, Turnips	10	2	5
Sweet Corn	20	4	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 number of, applications per season.

Preharvest Intervals (PHI*) for Foliar Applications

CROP	PHI*
Tomatoes	1
Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, Squash (Winter), Watermelons	3
Peppers	5
Beans (Lima, Pole and Snap), Broccoli, Brussels Sprouts, Cauliflower, Cucumbers, Peas, Squash (Summer), Sweet Corn	7
Chinese Broccoli, Chinese Mustard, Collards, Kale, Mustard	10
Beets (Red Table), Carrots, Endive (Escarole), Lettuce (Head and Leaf), Onions (Bulb and Green), Parsnips, Radishes, Spinach, Swiss Chard, Turnips (Roots and Tops)	14
Cabbage	21
Ginseng	30
Potatoes (Irish)	35

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

Notes: (1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see *Timing/Special Directions*) using a rotary hoe, cultivator, disk, harrow or other suitable means. For control of surface cutworms, incorporate 2-3 inches; for subterranean cutworms incorporate 3-6 inches. (2) To Protect Bees: Foliar applications of this product should not be made to peas or beans if these crops, or weeds in the treatment area, are in bloom, or to corn during the pollen shed period.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Beans (Lima, Pole, Snap) Succulent Only	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Black Bean Aphids, Dipterous Leafminers, Mexican Bean Beetles	1 - 1½ pts. 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.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Beans (Lima, Pole, Snap) Succulent Only (continued)	Cucumber Beetles	3/4 pt. per acre	Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. Make cucumber beetle application in 100 gals. of water per acre. Note: (1) Diazinon will not control organophosphate-resistant leafminers; (2) To protect bees do not apply foliarly if the crop, or weeds in the treatment area, are in bloom.
Beans, Lima Succulent Only	Leafhoppers, Spider Mites	1 pt. per acre	Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 5 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: To protect bees, do not apply foliarly if the crop, or weeds in the treatment area, are in bloom.
Beets (Red Table)	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Dipterous Leafminers	1/2 - 1 pt. 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 with 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Broccoli	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields, just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4 - 8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2 - 1 cup (4 to 8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields, 1-3 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Broccoli (continued)	Aphids, Diamondback Moths, Dipterous Leafminers, Imported Cabbageworms	½ - 1 pt. 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.
		2 - 3 qts. per acre	Apply to plant beds or fields, just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
Brussels Sprouts	Root Maggots	4 - 8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½ - 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.
		2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms	½ - 1 pt. 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	2 - 3 qts. per acre	Apply to plant beds or fields, just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4 - 8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½ - 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. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Dipterous Leafminers, Imported Cabbageworms	½ - 1 pt. 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 21 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Carrots	Cutworms	2 - 3 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids	1 qt. 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	3 - 4 qts. per acre	Apply to plant beds or fields, just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4 - 8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2 - 1 cup (4 to 8 oz.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Dipterous Leafminers, Imported Cabbageworms	1/2 - 1 pt. 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 5 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Chinese Broccoli	Aphids, Diamondback Moths, Dipterous Leafminers, Imported Cabbageworms	1/2 - 1 pt. 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 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Dipterous Leafminers, Imported Cabbageworms	1/2 - 1 pt. 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 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Chinese Mustard (Gai Choy)	Aphids, Diamondback Moths, Dipterous Leafminers, Imported Cabbageworms	1/2 - 1 pt. 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 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Chinese Radish (Japanese Radish or Daicon) [FL and CA only]	Aphids, Diamondback Moths, Dipterous Leafminers, Imported Cabbageworms	1 pt. per acre	Mix in a minimum of 100 gals. of water per acre and apply as a foliar spray as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 3 applications per season. Do not apply within 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Collards	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Corn Earworms, Diamondback Moths, Harlequin Bugs, Imported Cabbageworms	½ - 1 pt. 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 10 days of harvest, or illegal residues may occur.
Cucumbers	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Melonworms, Serpentine Leafminers, Striped Cucumber Beetles, Thrips	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 7 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	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½ - 1 pt. 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 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Ginseng	Aphids, Flea Beetles, Leafhoppers, Lygus Bugs, Jumping Plant Lice	¾ - 1 pt. per acre	Spray when insects first appear. For heavy insect infestations, use 1 pt. per acre. Apply by ground equipment using 10 to 100 gals. of water per acre. Do not apply more than one application per growing season. Do not apply during flowering of three or four year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Kale	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Corn Earworms, Diamondback Moths, Harlequin Bugs, Imported Cabbageworms	½ - 1 pt. 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 10 days of harvest, or illegal residues may occur.
Lettuce	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½ - 1 pt. 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, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and hybrids of these) and Watermelons	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Leafhoppers, Melonworms, Spider Mites, Striped Cucumber Beetles, Thrips	½ - 1½ pt. 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	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 pt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworms	½ - 1 pt. 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 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Onions (Bulb and Green)	Onion Maggots	2 - 4 qts. per acre	Broadcast just before planting and mix into the top 3-4 inches of soil. (See Soil Incorporation Note.) Note: Diazinon will not control organophosphate-resistant onion maggots.
	Onion Thrips	1 pt. 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	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Parsley	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers Flea Beetles	½ - 1 pt. 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, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Peas (succulent only)	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Aphids, Dipterous Leafminers	¾ - 1 pt. 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	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers	½ - 1 pt. per acre	Apply as insects occur. Repeat application after 7 days if necessary. Do not make more than 3 applications per season. Do not apply within 5 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Potatoes	Cutworms (surface and subterranean)	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Potatoes (continued)	Southern Potato Wireworms (Southeastern U.S.)	2 - 4 qts. 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.
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Colorado Potato Beetles, Dipterous Leafminers, Flea Beetles	½ - ¾ pt. per acre	Apply as insect 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	¾ - 1 pt. per acre	Apply as insect occur. Repeat applications as necessary up to 5 times per season with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.
Note: Do not use on commercially grown potatoes which will be hand-harvested.			
Radishes	Curworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers Flea Beetles	½ - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 3 times per season, 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	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½ - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 3 times per season, 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.
Squash, Summer	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Leafhoppers, Leafminers, Melonworms, Spider Mites, Striped Cucumber Beetles, Thrips	½ - 1½ pt. 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.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Squash, Winter	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Leafhoppers, Leafminers, Melonworms, Spider Mites, Striped Cucumber Beetles, Thrips	½ - 1½ pt. 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	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Seed Corn Maggots	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Corn Earworms	1 - 1¼ qts. per acre	Apply when silks first appear. Repeat application every 7 days up to a maximum of 5 applications, if necessary.
	Corn Rootworm (adults)	½ - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Corn Leaf Aphids	1 - 2 pts. 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.
	Flea Beetles, Grasshoppers, Spider Mites	1 pt. per acre	Apply as insect occur. Repeat if necessary, but do not make more than 5 applications per season.
	Sap Beetles	2 - 2½ pts. 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	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Swiss Chard	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Harlequin Bugs, Imported Cabbageworms	½ - 1 pt. 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, or illegal residues may occur.
Tomatoes	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Tomatoes (continued)	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½ pt. per acre	Apply as insects occur. Repeat application, after 7 days, as necessary. Do not make more than 5 applications per season. Do not apply within 1 day of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
	Vinegar Flies (<i>Drosophila</i> spp.)	½ - 1½ pts. per acre	
	Banded Cucumber Beetles, Beet Armyworms, Fall Armyworms, Southern Armyworms	¾ - 1 pt. per acre	
Turnips (Roots and Tops)	Cutworms	2 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	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. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Flea Beetles	½ - 1 pt. 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, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

FIELD CROPS
REI - 24 Hours

Soil and foliar applications of this product should always be applied as a spray in sufficient water to ensure thorough coverage. 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:

Preharvest Intervals (PHI*) For Foliar Applications

CROP	PHI*
Hops, Sugar Beets	14

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

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Hops	Aphids, Spider Mites	1 qt. 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	3 - 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-6 inches of soil. Do not apply more than 4 qts. of this product to the soil per season.

CROP	PESTS	RATE	TIMING/SPECIAL DIRECTIONS
Sugar Beets (continued)	Aphids, Beet Leafhoppers, Dipterous Leafminers	3/4 - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times per season with a minimum of 7 days between applications. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate-resistant leafminers.
	Grasshoppers	1 pt. 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: Spray 3/4 - 1 pt. per acre in water (minimum of 1 gal. of water per acre) for aerial applications or a minimum of 5 gals. of water per acre for ground applications or in oil (a minimum of 1 gal. of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential. Do not graze or use treated grass for food or feed.

INSECT CONTROL ON ORNAMENTALS

REI - 12 Hours

To control certain insects on ornamentals, such as Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladioli, Hawthorn, Holly, Juniper, Lilacs, Locust, Maple, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Rose, Spruce and Willow, apply the recommended rates indicated below. Try to spray underside of leaves and penetrate dense foliage. Precaution: Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea and Gardenia, since injury to these plants may occur.

INSECTS	AMOUNT OF THIS PRODUCT	
	RATE PER 3 GALS. WATER	RATE PER 100 GALS. WATER
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf-tiers, Privet Mites, Scale Crawlers (Cottoncushion, Lecanium, Pint Needle, San Jose, Soft), Thrips, Two-Spotted Spider Mites, Juniper Webworms, Whiteflies	1/2 oz.*	1 pt.**
Apple-and-Thorn Skeletonizers, Cottoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars	1 1/2 oz.*	3 pts.**

*1 fl. oz. = 2 tablespoons
**16 fl. oz. = 1 pint

Mimosa Webworms: Mix 1/2 fl. oz. in 3 gals. of water (or 1 pt. in 100 gals. of water) and apply as a thorough spray when adults first appear. Make a second and third application at 4-5 week intervals.

LAWN PEST CONTROL

Excluding Sod Farms and Golf Courses

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, NY between 11/1 and 5/20. 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 treated area after treatment (except spot treatments), water lawn with at least 1/4 inch of water immediately after application, however, stop irrigation before puddling occurs.

To control pests listed below, apply recommended rates.

PESTS	RATE PER 1,000 SQUARE FEET THIS PRODUCT		REMARKS
	PRODUCT	WATER	
Lawn Cinch Bugs	2-3 oz.	3 gals.	Use higher rate for longer residual control and in turfgrass of dense growth such as St. Augustine.

PESTS	RATE PER 1,000 SQUARE FEET		REMARKS
	THIS PRODUCT	WATER	
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs)	2-3 oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. for digger wasps, apply product at dusk when wasps are not active. For frit flies, mow grass and water well before treatment but delay application until grass is dry.
Brown Dog Ticks, Chiggers, Fleas	3 oz.	3 gals.	Note: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.
Hyperodes Weevils	3 oz.	3 gals.	Treat problem areas in mid-April and again in mid-May.
Millipedes	3 oz.	3 gals.	
Rhodesgrass Scales	3 oz.	3 gals.	Apply when crawlers first emerge.
White Grubs (Japanese Beetle Larvae, European Chafer, Southern Chafer)	3 oz.	3 gals.	Apply any time between late July and early October.

NUISANCE PESTS IN OUTSIDE AREAS

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders and Springtails (Collembola): Mix 3 oz. in 3 gals. of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entrance ways, 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. NOTE: Do not apply to animals. Do not apply to plants (except tree trunks) at this nuisance pest rate.

CONDITIONS OF SALE AND WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MARMAN USA, INC. or the Seller. All such risks shall be assumed by the Buyer.

MARMAN USA, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the Directions for Use subject to the inherent risks referred to above. MARMAN USA, INC. makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. In no case shall MARMAN USA, INC. or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. MARMAN USA, INC. and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of MARMAN USA, INC.