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Ms. Barbara Brown
Drexel Chemical Company
P.O. Box 13327
Memphis, TN 38113-0327

APR 24 1997

Dear Ms. Brown:

Subject: Amendment- Comply with Agency letter of November 22, 1996
Drexel Diazinon Insecticide
EPA Registration Number 19713-91
Your submission dated March 24, 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 PERSONAL PROTECTIVE EQUIPMENT section for WPS uses, revise "shirtand" to "shirt and".
 - b) 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 ...".
 - c) Add "to wait" between "days" and "between" in the PHI note under the PHI table for Fruits and Nuts.
 - d) Throughout the Fruits and Nuts directions, in the NOTES about PHI intervals, start each such sentence with "To avoid illegal residues,". Your label is inconsistent in this regard.
 - e) In the directions for the crop Caneberries, revise "daspberries" to "raspberries", delete "Do not make more than

5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur." from the directions for control of Leafhoppers, etc. and delete "Do not apply within 7 days of harvest, or illegal residues may occur." from the directions for control of Dryberry Mites and then under all the directions for Caneberries add a Notes section 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.

- f) For the crop Cranberries, in the 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 item "g", below).
- g) Also for the crop Cranberries, for Cranberry Fruitworms the rate should be 2-3 qts. and in the 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.". These revised directions do not include the PHI sentence since it will appear in the Notes. Add a NOTES section as follows:

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 "Chemigation" section for specific chemigation directions for use. (4) DO NOT USE WATER FROM IRRIGATED OR FLOODED CRANBERRY BEDS FOR DRINKING PURPOSES OR TO IRRIGATE CROPS OTHER THAN THOSE APPEARING ON EPA APPROVED DIAZINON LABELS.

- h) For the crop Strawberries, delete "Do not apply within 5 days of harvest or illegal residues may occur." from the directions for control of Aphids, etc., Cyclamen Mites, and Strawberry Leafrollers since this same limitation will appear in the new Notes for this crop entry (see below). Also, delete "Application may be made to plants after harvest." from the directions for control of Cyclamen Mites. Such a post-

harvest use is not supported by the residue data submitted. Add a NOTES section as follows:

NOTES: Do not apply more than 1 qt. of product 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.

- i) In the directions for the crop Walnuts delete "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." from the directions and then add a Notes section as follows: Notes: (1) Do not apply more than 3 qts. of product per acre per application. (2) Do not apply more than 9 qts. of product per acre per season. (3) To avoid illegal residues, allow a minimum of 45 days between the last application and harvest and do not apply after husks open.
- j) Add "to wait" between "days" and "between" in the PHI note under the PHI table for Vegetables.
- k) 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.."
- l) 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."
- m) 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.
- n) Add "to wait" between "days" and "between" in the PHI note under the PHI table for Field Crops.
- o) Revise the Note appearing under the crop Sugar Beets to read "Sugar Beet tops may be fed to beef and dairy animals."
- p) In the directions paragraph for Insect Control on Ornamentals, add "Repeat as necessary." to appear after "dense foliage."
- q) 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".

- r) In the Lawn Pest Control table revise the pest name Fruit Flies" to read "Frit Flies" and revise the directions for control of this pest to read "For frit flies, before treatment mow grass and water well, but delay application until grass is dry."
- s) Revise the heading "Nuisance Pest in Outside Areas" to "Nuisance Pests in Outside Areas". Also, there is a double entry for this section. Delete one set. On the retained set, please have the precautions "Do not apply to animals. Do not treat plants (other than tree trunks) at this nuisance pest rate." appear in bold print as they do on one of your versions of this section.

3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

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

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

Sincerely,

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

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

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ACCEPTED
with COMMENTS
in EPA Letter Dated

RECEIVED 7/0P01

APR 24 1997

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

19713-91

Drexel

Diazinon Insecticide

For control of certain insects on fruits, nuts, vegetables,
field crops, lawns and ornamentals. This product must not
be used on golf courses and sod farms.

ACTIVE INGREDIENT:

Diazinon: [O,O-Diethyl O-(2-isopropyl-6-methyl-4-
pyrimidinyl) phosphorothioate] 48.2%

INERT INGREDIENTS*: 51.8%

TOTAL: 100.0%

*Contains xylene range aromatic solvent.

KEEP OUT OF REACH OF CHILDREN
CAUTION

Read Entire Label Before Using This Product
SHAKE WELL BEFORE USING

EPA Reg. No. 19713-91

EPA Est. No. 19713-GA-1

91SP-0197

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 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.
Diazinon is an organophosphate insecticide/miticide.

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 table spoons 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:

WPS USES: Applicators and other handlers who handle this
pesticide for any uses covered by the Worker Protection Standard
(40 CFR Part 170) - in general, agricultural plant uses are covered -
must wear: Long-sleeved shirt and long pants, chemical resistant gloves
such as barrier laminate, butyl rubber greater than or equal to 14 mils,
nitrile rubber greater than or equal to 14 mils, or viton greater than or equal
to 14 mils, shoes plus socks, and protective eyewear.

NON-WPS USES: Applicators and other handlers who handle this
pesticide for any uses NOT covered by the Worker Protection
Standard (40 CFR Part 170) - in general, agricultural plant uses are
covered - must wear: Long-sleeved shirt and long pants, waterproof
gloves, shoes plus socks and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or
heavily contaminated with this product's concentrate. Do not reuse them.
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such
instructions for washables, use detergent and hot water. Keep and wash PPE
separately from other laundry.

USER SAFETY RECOMMENDATIONS

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

ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish and other wildlife. Birds, especially
waterfowl, feeding or drinking on treated areas may be killed. Because of the
migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in
Nassau County, New York between November 1 and May 20. Do not exceed
maximum permitted label rates. Rates above those recommended significantly
increase potential hazards to birds, 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 wash waters.

PHYSICAL OR CHEMICAL HAZARDS

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

GENERAL INFORMATION

DIAZINON INSECTICIDE 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 green-
houses. Do not use in barns or dwellings. Do not use on livestock.

Manufactured By:

Drexel Chemical Company

P.O. BOX 13327 MEMPHIS, TN 38113-0327

SINCE 1972

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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.

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 DIAZINON INSECTICIDE, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See "Practical Treatment" section of this label. When handling this product, wear the personal protective equipment listed in the following section.

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 regulations.

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.

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 into 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 rubber greater than or equal to 14 mils, nitrile rubber greater than or equal to 14 mils, or viton greater than or equal to 14 mils, and 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 on farms, forests, nurseries, or greenhouses. Do not permit children or pets to go onto treated areas until spray has dried.

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

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) - CRANBERRIES ONLY

DIAZINON INSECTICIDE may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems to cranberries. To insure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible. Do not apply this product through any type of irrigation system to other crops. For chemigation, apply this product to cranberries only through sprinkler irrigation systems. Do not apply this product to cranberries through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect the irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments, if the need arises. Chemigation System Connected to Public Water Systems

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

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

Operating Instructions

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of Diazinon Insecticide 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 DIAZINON INSECTICIDE to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if DIAZINON INSECTICIDE 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 (R.E.I. = 24 hours)

DIAZINON INSECTICIDE 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 Diazinon Insecticide 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 DIAZINON INSECTICIDE 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 Timing/Special Directions for individual crops.

| Crop | Aerial Min. Gals. / Acre | Ground Application Min. Gals. / Acre | |
|-----------------|-----------------------------|---|-------------|
| | | Dilute | Concentrate |
| Almonds* | 20 | 100 | 20 |
| Apricots | 20 | 100 | 20 |
| Blackberries** | 20 | 100 | 20 |
| Boysenberries** | 20 | 100 | 20 |
| Cherries | 20 | 100 | 20 |
| Cranberries | 20 | 015 | — |
| Dewberries** | 20 | 100 | 20 |
| Grapes | 20 | 100 | 20 |
| Loganberries** | 20 | 200 | 20 |
| Nectarines | 20 | 200 | 20 |
| Peaches | 20 | 200 | 20 |
| Plums | 20 | 200 | 20 |
| Prunes | 20 | 200 | 20 |
| Raspberries** | 20 | 200 | 20 |
| Strawberries | 20 | 200 | 20 |
| Walnuts* | 20 | 200 | 20 |

*CA only.

**CA, OR, or WA only.

Observe stated time intervals between last application and harvest; as well as intervals between applications and total amount of product that can be applied per season.

| | |
|---------------|---------------------|
| Almonds | Dormant spray only. |
| Apricots | 21 |
| Blackberries | 07 |
| Boysenberries | 07 |
| Cherries | 21 |
| Cranberries | 07 |
| Dewberries | 07 |

| | |
|---------------|----|
| Grapes | 28 |
| Loganberries | 07 |
| Nectarines | 21 |
| Peaches | 21 |
| Plums, Prunes | 21 |
| Raspberries | 07 |
| Strawberries | 05 |
| Walnuts | 45 |

*PHI is the number of days between the last application and harvest; may vary based on use pattern selected. See specific "Directions For Use" for grapes.
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.

| Crops | Pest | Rate | Timing / Special Directions |
|---|---|--|--|
| Almonds (CA only) | San Jose Scale, Parlatoria Scale | 1 1/2 pts + 2 to 3 gals. dormant oil or 1 1/2 gals. superior type oil in 100 gals. of water. | Apply as a dormant spray. Do not apply more than 6 pts. of diazinon or 9 gals. of oil per acre. |
| Apricots | Aphids, Brown Mites (Clover Mites), Two-spotted Spider mites, Olive Scale Crawlers, San Jose Scale Crawlers | 1 pt. in 100 gals. of water. | Apply as infestations occur. Repeat application after 14 days if necessary. |
| | Olive Scale Crawlers | 1/2 pt. + 1 1/2 gals. of light medium horticultural oil per 100 gals. of water. | Apply when scale crawlers are present. |
| | Apricot Mealybugs | 1 pt. per 100 gals. of water. | Apply as a cover spray from petal fall to June. Allow 14 days between application. |
| 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]) | 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. 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 fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open. |
| | | | (continued) |

| Crops | Pest | Rate | Directions |
|--|--|-------------------------------------|---|
| Caneberries [CA, OR and WA only; (blackberries, boysenberries, dewberries, loganberries, raspberries)] (continued) | Dryberry Mites | 1 to 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 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 infestation occur beginning at petal fall. Repeat application after 7 days if necessary. |
| | Leafhoppers | 1 pt. in 100 gals. of water. | Make 3 to 4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications. |
| | Cherry Fruitflies | 1/2 to 1 pt. in 100 gals. of water. | Make 3 to 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. |
| (continued) | | | |

| Crop | Pest | Rate | Timing / Special Directions |
|---|---|---|---|
| Cherries (continued) | 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 | 1/2 to 1 pt. in 100 gals. of water. | Apply to trees as a single supplemental spray 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. | | | |
| Cranberries | Blackheaded Fireworms (Rhopobota Naevana) | 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 Tipworm | 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. |
| NOTE: This product may be applied to cranberries through sprinkler irrigation. Refer to the "Chemigation" section for specific chemigation directions for use. Do not use water from irrigated or flooded cranberry beds for drinking purposes or to irrigate other crops other than those appearing on EPA approved diazinon labels. | | | |
| Grapes | Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafhoppers, Omnivorous Leafrollers, Achids, Spider Mites | 1 to 2 pts. per acre in a minimum of 100 gals. of water. | Apply as pest occurs as a thorough cover spray. Repeat application after 7 days if necessary. |
| (continued) | | | |

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| | | | Direction |
|---|---|--|--|
| Grapes (continued) | Drosophila spp. | 6 fl. oz. 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. |
| | NOTES: (1) Do not apply more than 2 pts. of product per acre per application and no more than 10 pts. per acre per season. (2) To avoid illegal residues, allow 28 days between the last application and harvest. | | |
| Nectarines | Ornamental Fruit Moths | 1 pt. in 100 gals. of water. | Apply at 100% petal fall. Make 2 additional applications at 10 - 15 day intervals. Time the last application to peak adult flight. |
| | Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers | 1 pt. in 100 gals. of water. | Apply as infestations occur. Repeat application after 14 days if necessary. |
| NOTES: (1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. per acre per season. (2) Allow a minimum of 21 days between the last application and harvest. | | | |
| Peaches (continued) | Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers | 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 2 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. |

| | | | Directions |
|-----------------------------|--|---------------------------------------|--|
| Strawberries (continued) | 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 to 2 days before transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Strawberry Leafrollers | 3/4 to 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. 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 | Apply as a foliar spray. 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. |

Vegetable Crops (R.E.I. = 24 hours)

For foliar or soil applications, DIAZINON INSECTICIDE should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. DIAZINON INSECTICIDE 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 | | Aerial Application |
|--|--------------------|---------------------------------|----------------------|
| | Minimum Gals./Acre | or Minimum Gals. / 1000 Sq. Ft. | Minimum Gals. / Acre |
| Beans (Lima, 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 | 05 | 1 | 5 |
| Carrots | 10 | 2 | 5 |
| Casabas | 05 | 1 | 5 |
| Cauliflower | 10 | 2 | 5 |
| Chinese broccoli | 10 | 2 | 5 |
| Chinese cabbage | 10 | 2 | 5 |
| Chinese mustard | 10 | 2 | 5 |
| Chinese radish (CA, FL only) | 10 | 2 | 5 |
| Collards | 10 | 2 | 5 |
| Crenshaws | 05 | 1 | 5 |
| Cucumbers | 05 | 1 | 5 |
| Endive (Escarole) | 10 | 2 | 5 |
| Ginseng | 10 | 2 | 5 |
| Honeydew melons | 05 | 1 | 5 |

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.

| Crop | Pest | Rate | Timing / Special Directions |
|--|---|--|---|
| Peaches (continued) | Leafhoppers | 1 pt. in 100 gals. of water. | Make 3 to 4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications. |
| | White Peach Scale | 1 1/2 to 2 pts. in 100 gals. of water. | Apply post-harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation, 2 applications (7 days apart) may be needed. Do not apply before fruit is harvested. |
| 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) Allow a minimum of 21 days between the last application and harvest. | | | |
| Plums, Prunes | Brown Mites (Clover Mites), European Red Mites | 1 pt. in 100 gals. of water. | Apply as needed every 7 days. |
| | Leafcutter Plum Aphids, Mealy Plum Aphids, Thistle Aphids | 1/2 to 1 pt. in 100 gals. of water. | Apply as needed every 7 days. |
| 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) Allow a minimum of 21 days between the last application and harvest. | | | |
| Strawberries (continued) | 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. |

| Crop | Application | | Application |
|------------------------|----------------------|---------------------------------|----------------------|
| | Minimum Gals. / Acre | or Minimum Gals. / 1000 Sq. Ft. | Minimum Gals. / Acre |
| Kale | 10 | 2 | 5 |
| Lettuce, Head | 10 | 2 | 5 |
| Lettuce, Leaf | 10 | 2 | 5 |
| Muskmelons | 05 | 1 | 5 |
| Mustard | 10 | 2 | 5 |
| Onion (bulb and green) | 10 | 2 | 5 |
| Parsley | 10 | 2 | 5 |
| Parsnips | 10 | 2 | 5 |
| Peas (succulent only) | 10 | 2 | 5 |
| Peppers | 10 | 2 | 5 |
| Persian melons | 05 | 1 | 5 |
| Potatoes (Irish)* | 10 | 2 | 5 |
| Radishes | 10 | 2 | 5 |
| Spinach | 10 | 2 | 5 |
| Squash, (summer) | 05 | 1 | 5 |
| Squash, (winter) | 05 | 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 | 05 | 1 | 5 |

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

| Crop | Pest | Rate | Directions |
|---|---------------------------|----------------------|--|
| Beans (lima, pole, and snap); succulent only | Cutworms | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers | | 1 1/2 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. 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. NOTES: (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. |
| | Cucumber Beetles | 3/4 pt. per acre | Apply as insects occur. Repeat application as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. NOTES: (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. Make cucumber beetle application in 100 gals. of water per acre. |
| 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 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. NOTES: To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom. |

Pre-Harvest Intervals (PHI*) for Foliar Applications

| Crop | PHI*(Days) | Crop | PHI*(Days) |
|-----------------------------|------------|---------------------------|------------|
| Beans (lima, pole and snap) | 07 | Kale | 10 |
| Beets, (red table) | 14 | Lettuce | 14 |
| Broccoli | 07 | Muskmelons | 03 |
| Brussels sprouts | 07 | Mustard | 10 |
| Cabbage | 21 | Onions (bulb and green) | 14 |
| Cantaloupes | 03 | Parsnips | 14 |
| Carrots | 14 | Peas | 07 |
| Casabas | 03 | Peppers | 05 |
| Cauliflower | 07 | Persian melons | 03 |
| Chinese broccoli | 10 | Potatoes (Irish) | 35 |
| Chinese cabbage | 10 | Radishes | 14 |
| Chinese mustard | 10 | Spinach | 14 |
| Chinese radish | 10 | Squash, (summer) | 07 |
| Collards | 10 | Squash, (winter) | 03 |
| Crenshaws | 03 | Sweet corn | 07 |
| Cucumbers | 07 | Swiss chard | 14 |
| Endive (escarole) | 14 | Tomatoes | 01 |
| Ginseng | 30 | Turnips, (roots and tops) | 14 |
| Honeydew melons | 03 | Watermelons | 03 |

*PHI=Pre-Harvest Interval or the number of days between the last application and harvest.
 NOTES: (1) SOIL INCORPORATION: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see TIMING / SPECIAL DIRECTIONS) using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of surface cutworms, incorporate 2 to 3 inches, for subterranean cutworms incorporate 3 to 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 | Pest | Rate | Timing / Special Directions |
|--------------------|----------------------|-----------------------|---|
| Beets, Red (table) | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| Broccoli | Dipterous Leafminers | 1/2 to 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. |
| | Root Maggots | 2 to 3 qts. per acre | Apply to plant beds or fields just before sowing of seeds or transplanting and immediately incorporate into the top 3 to 4 inches of soil. |
| (continued) | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wire Worms | 1 qt. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |

| | | | Directions |
|----------------------|---|---------------------------------|--|
| Broccoli (continued) | Aphids, Diamondback Moths, Imported Cabbageworm, Dipterous Leafminers | ½ to 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 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers. |
| Brussels sprouts | Root Maggots | 2 to 3 qts. per acre | Apply to beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3 to 4 inches of soils. |
| | | 4 to 8 oz. in 50 gals. of water | In transplant water as a drench application when 200 to 300 gals. of water are used per acre. Apply 1/2 to 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 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbageworm, Dipterous Leafminers | ½ to 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. |

| | | | Directions |
|---|--|----------------------|--|
| Chinese broccoli | Aphids, Diamondback Moths, Imported Cabbageworm, Dipterous Leafminers | ½ to 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. NOTE: Diazinon will not control organophosphate-resistant leafminers. |
| Chinese cabbage (bok choy and napa) | Aphids, Diamondback Moths, Imported Cabbageworm, Dipterous Leafminers | ½ to 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. NOTE: Diazinon will not control organophosphate-resistant leafminers. |
| Chinese mustard (gai choy) | Aphids, Diamondback Moths, Imported Cabbageworm, Dipterous Leafminers | ½ to 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. NOTE: Diazinon will not control organophosphate-resistant leafminers. |
| Chinese radish (Japanese radish or daikon) (FL and CA only) | Aphids, Diamondback Moths, Imported Cabbageworm, Dipterous Leafminers | 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 14 days of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers. |
| Collards | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbageworm, Harlequin Bugs, Corn Earworms | ½ to 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. |

| Crop | Pest | Rate | Timing / Special Directions |
|-------------|--|--------------------------------|--|
| Carrots | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids | 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. |
| Cauliflower | Root Maggots | 2 to 3 qts. per acre | Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3 to 4 inches of soil. |
| | | 4 to 8 oz. in 50 gals of water | In transplant water as a drench application when 200 to 300 gals. of water are used per acre. Apply 1/2 to 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 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminers | ½ to 1 pt. per acre | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between application. Do not apply within 5 days of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers. |

| Crop | Pest | Rate | Timing / Special Directions |
|-------------------|---|-----------------------|--|
| Cucumbers | Cutworms | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre. | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms | 1 pt. per acre | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 3 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 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Dipterous Leafminers | ½ to 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. NOTE: Diazinon will not control organophosphate-resistant leafminers. |
| Ginseng | Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice | 3/4 to 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 | Pest | Rate | Directions |
|---------|--|-----------------------|---|
| Kale | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbageworm, Harlequin Bugs, Corn Earworms | 1/4 to 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. |
| Lettuce | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Dipterous Leafminers | 1/4 to 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. |

| Crop | Pest | Rate | Directions |
|------------------------|--|-----------------------|---|
| Onion (bulb and green) | Onion Maggots | 2 to 4 qts. per acre | Broadcast just before planting and mix into the top 3 to 4 inches of soil. NOTE: Diazinon will not control organophosphate-resistant onion maggots. |
| | Onion Thrips | 1 pt. per acre | Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| Parsley | Cutworms | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| Parsnip | Aphids, Flea Beetles, Dipterous Leafminers | 1/2 to 1 pt. per acre | Apply as insects appear. 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. |
| Peas (succulent only) | Cutworms | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Dipterous Leafminers | 3/4 to 1 pt. per acre | Apply as insects appear. 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. NOTES: (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. |

| Crop | Pest | Rate | Timing / Special Directions |
|---|---|----------------------------|---|
| Melons (cantaloupe, crenshaws, honeydews, muskmelons, persians, and hybrids of these) and Watermelons | Cutworms | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites | 1/4 to 1 1/2 pts. 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 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworm | 1/4 to 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. NOTE: Diazinon will not control organophosphate-resistant leafminers. |

| Crop | Pest | Rate | Timing / Special Directions |
|---|---|-------------------------|--|
| Peppers | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Serpentine Leafminers | 1/4 to 1 pt. per acre | Apply as insects appear. Repeat application, as necessary, every 7 days. 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 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Southern potatoe Wireworms (Southeastern U.S.) | 2 to 4 qts. per acre | For potatoes grown on mineral soils in the Southeast, apply before planting and immediately incorporate into the top 3 to 6 inches of soil depending on location of wireworms. |
| | Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers | 1/2 to 3/4 pt. per acre | Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. 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 | 3/4 to 1 pt. per acre | Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. 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. | | | |

| | | Directions | |
|------------------|--|-----------------------|--|
| Radishes | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Flea Beetles, Dipterous Leafminers | ½ to 1 pt. per acre | Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers. |
| Spinach | Cutworms | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Dipterous Leafminers | ½ to 1 pt. per acre | Apply as insects appear. 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. |
| Squash, (summer) | Cutworms | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites | ½ to 1½ pts. per acre | Apply as insects appear. 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. |

| | | Directions | |
|----------------|--|-----------------------|--|
| Sweet potatoes | Wireworms, Flea Beetles | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| Swiss chard | Cutworms | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Imported Cabbageworm, Diamondback Moths, Harlequin Bugs | ½ to 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. |
| Tomatoes | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Dipterous Leafminers | ½ pt. per acre | Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within one day of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers. |
| | Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworm | ¾ to 1 pt. per acre | Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within one day of harvest, or illegal residues may occur. |
| | Vinegar Flies (Drosophila spp.) | ½ to 1½ pts. per acre | Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within one day of harvest, or illegal residues may occur. |

| Crop | Pest | Rate | Timing / Special Directions |
|--|--|-----------------------|---|
| Squash, (winter) | Cutworms | 2 to 4 qts. per acre | Broadcast before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites | ½ to 1½ pts. per acre | Apply as insects appear. 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. |
| Sweet corn | Cutworms | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Seed Corn Maggots | 2 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Corn Earworms | 1 to 1½ qts. per acre | Apply when silks first appear. Repeat application every 7 days if necessary. Do not make more than 5 applications per season. |
| | Corn Rootworm (adults) | ½ to 1 pt. per acre | Apply as insects first appear. Repeat application as necessary every 7 days. Do not make more than 5 applications per season. |
| | Corn Leaf Aphids | 1 to 2 pts. per acre. | Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. |
| | Grasshoppers, Spider Mites, Flea Beetles | 1 pt. per acre | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. |
| | Sap Beetles | 2 to 2½ pts. per acre | Consult local agricultural authorities for proper timing of sprays. Repeat application, as necessary, every 7 days. 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. (3) Corn may be picked 7 days after the last application. | | | |

| Crop | Pest | Rate | Timing / Special Directions |
|---------------------------|--|----------------------|--|
| Turnips, (roots and tops) | Cutworms | 2 to 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 to 2 days before sowing of seed or transplanting and immediately incorporate into the top 1 to 2 inches of soil. |
| | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil. |
| | Aphids, Flea Beetles, Dipterous Leafminers | ½ to 1 pt. per acre | Apply as insects appear. 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. |

Field Crops (REI=24 Hours)

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

Pre-Harvest Interval (PHI)* For Foliar Applications

| Crop | PHI* |
|-------------|------|
| Hops | 14 |
| Sugar beets | 14 |

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

13 7 14

| Directions | | | |
|---|--|-----------------------|--|
| Hops | Aphids, Spider Mites | 1 qt. per acre | Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 4 applications per season. Do not apply within 14 days of harvest. |
| Sugar beets | Wireworms | 3 to 4 qts. per acre | Broadcast just before planting. Incorporate into the soil 4 to 6 inches. Do not apply more than 4 qts. of this product to the soil per season. |
| | Beet Leafhoppers, Dipterous Leafminers, Aphids | 3/4 to 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. Note: Diazinon will not control organophosphate-resistant leafminers. |
| | Grasshoppers | 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. |
| NOTE: Tops may be fed to beef and dairy animals | | | |

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 areas after treatment (except spot treatments), water lawn with at least 1/4 inch water immediately after application, however, stop watering before puddling occurs.

| Pest | Rate / 1000 sq. ft. | | Remarks |
|--|----------------------|---------|---|
| | DIAZINON INSECTICIDE | Water | |
| Lawn Chinch Bugs | 2 to 3 fl. oz. | 3 gals. | 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, Fruit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs), Springtails (Collembola) | 2 to 3 fl. oz. | 3 gals. | Spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk when wasps are not active. For fruit 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. |
| Brown Dog Ticks, Chiggers, Fleas | 3 fl. oz. | 3 gals. | Note: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house. |
| Hyperodes Weevils | 3 fl. oz. | 3 gals. | Treat problem areas in mid-April and again in mid-May. |
| Millipedes | 3 fl. oz. | 3 gals. | |
| Rhodesgrass Scales | 3 fl. oz. | 3 gals. | Apply when crawlers first emerge. |
| White Grubs such as (Japanese Beetle Larvae, European Chafer, Southern Chafer) | 3 fl. oz. | 3 gals. | Apply any time between late July and early October. |

Grassland Insects

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

GRASSHOPPERS: Spray 3/4 to 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 forage or feed.

Insect Control on Ornamentals (REI=12 Hours)

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

| Insects | Amount Of DIAZINON INSECTICIDE To Use | |
|---|---------------------------------------|--------------------------|
| | 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, Juniper Webworms, Leafhoppers, Obscure Root Weevils, Omnivorous Leafhoppers, Privet Mites, Scale Crawlers (Cottonycushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-Spotted Spider Mites, Whiteflies | 1/2 fl. oz.* (1 tablespoon) | 1 pt.** (16 fl. oz.) |
| Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars | 1 1/2 fl. oz.* (3 tablespoons) | 3 pts.** (48 fl. oz.) |
| <p>PRECAUTIONS: Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea and Gardenia, since injury to the plants may occur.</p> <p>* 1 fl. oz. = 2 tablespoons</p> <p>** 16 fl. oz. = 1 pint</p> | | |

Nuisance Pest in Outside Areas

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails, (Collembola)

Mix 3 fl. oz 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.

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 foliar spray when adults first appear. Make a second and third application at 4 to 5 week intervals.

*Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails, (Collembola)

Mix 3 fl. oz 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

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

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. In the event of a major spill, fire or other emergency, call 1-800-424-9300 day or night.

WARRANTY - CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall Drexel or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by Drexel Chemical Company and is accepted as such by the Buyer.

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