

MR 10 51036-108

10/5-3

FEB 23 1995

Mr. Morris Gaskins
Micro Flo Company
P.O. Box 5948
Lakeland, FL 33807

Dear Mr. Gaskins:

Subject: Amendments - Re-add inadvertent omissions
Comply with Worker Protection Standard
Diazinon 50W
EPA Registration Number 51036-108
Your submission dated November 8, 1994

The amendments referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), are 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) As indicated in the Agency's letter of September 20, 1993, the **Restricted Use Pesticide** heading and text should appear within a box outline.
 - b) In the **Statement of Practical Treatment**, add "Get medical attention." to the end of the **If Inhaled** advice.
 - c) In the **Statement of Practical Treatment**, add "Get medical attention." to the end of the **If On Skin** advice.
 - d) In the **Statement of Practical Treatment**, at the end of the **If In Eyes** advice, replace "Call a physician Immediately." with "Call a physician if irritation develops or persists."

- e) Revise the text of the Hazards to Humans as follows (please note that the Signal Word, Statement of Practical Treatment, Precautionary Statements and Worker Protection recommendations may have to be revised once the Agency completes its review of the product specific toxicology data supporting this product):

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist. Do not contaminate food or feed. Keep out of reach of domestic animals. Do not use on humans or pets. Do not contaminate ornamental fish ponds.

- f) You may delete the heading **PHYSICAL OR CHEMICAL HAZARDS** and its associated text.
- g) You may delete item 4 under the heading **Personal Protective Equipment**.
- h) Under the heading **Directions For Use**, use a lowercase "l" in "Federal law".
- i) In the **Agricultural Use Requirements**, delete "Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours." Appropriate 1REI intervals will be associated with each general use pattern (see items below).
- j) On page 5, in the third paragraph of the **Chemigation** directions, revise "questions bout calibration" to read "questions about calibration".
- k) Directly under the heading **Fruit and Nut Crops** add "REI- 24 hours."
- l) As noted in the Agency's letter dated September 20, 1993, correct "Parltatoria Scale" or "Partatoria Scale" to "Parlatoria Scale" in all the **Pest** listings for the various fruit and nut crops which include this as a named pest (Almonds, Apples, Apricots, Cherries, Nectarines (twice), Peaches (twice), Pears, Plums, and Prunes).
- m) Directly under the heading **Vegetable Crops** add "REI- 24 hours."
- n) On page 23, add the closing parenthesis mark after "succulent only".

- o) For the crop Tomatoes, the line between "Armyworms" and "Vinegar Flies" presumably should be a single line rather than a double line (which usually separates crop listings on your label).
- p) Directly under the heading **Field Crops** add "REI- 24 hours".
- q) Under the heading **Fly Control in Livestock Structures**, revise the subheading "Belt Sprays" to "Bait Sprays".
- r) Directly under the heading **Insect Control on Ornamentals** add "REI- 12 hours.". Also, in the pest listing under this heading correct "Camella" to read "Camellia".
- s) In the second box listing of ornamental pests on page 47, correct "Hemlock Cherries" to "Hemlock Chermes".
- t) In the **Precautions** under the heading **Lawn Pest Control**, in the first sentence add a comma after ", especially waterfowl".
- u) In the Lawn Pest Control table, in the Remarks for the pest grouping Ants, etc. revise "For fruit flies" to read "For frit flies".
- v) Under the heading **Nuisance Pests in Outside Areas**, at the end of the third paragraph, before "Do not apply to plants..." add "NOTE: Do not apply to animals."

3. Submit three (3) copies of your final printed labeling before you release the product for shipment. Finished revised amended labeling must be prepared in a timely manner for compliance with the released for shipment dates for revised labeling to comply with the Worker Protection Standard and the Diazinon Registration Standard.

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.

Revised Confidential Statements of Formula (CSF), both Basic and Alternate, must be submitted which should include upper certified limits for the impurities of toxicological concern as identified in the Diazinon Registration Standard (TEPP, O,S-TEPP, S,S-TEPP, and oxo-diazinon), and should include signed and dated

certification statements relative to FIFRA Sec 12 (a)(1)(C) and the method of arriving at the certified limits for the impurities (i.e., either your own chemical analysis or, more likely, your reliance on your supplier's analysis of their product which is your diazinon source) and addressing data requirements under Guidelines 61-3 and 61-2b. The text of these certification statements is as follows:

I hereby certify that, for the purposes of FIFRA Sec.12(a)(1)(C), the description of the composition of [your product's name], EPA Reg. No. [insert correct number for your product], refers to the composition set forth on this Statement of Formula and supporting materials. This description includes the representation that (1) no ingredient will be present in the product in an amount greater than the upper certified limit or in an amount less than the lower certified limit specified for that ingredient in this Statement of Formula; and (2) if the Agency requires that the source of supply of an ingredient be specified, that all quantities of such ingredient will be obtained from the source specified in the Statement of Formula.

I certify that the upper certified limits for the impurities listed on this Statement of Formula are based on [your supplier's name] analysis and certification of limits for this product based on [name of source product that your supplier has analyzed]. I further certify under Section 61-3 and 61-2(b) that there are no chemical reactions between diazinon and/or its impurities with the intentionally added inerts.

Since each supplier's diazinon manufacturing-use product has different impurity levels, you will have to complete a separate CSF form for each source of supply. Be sure that the correct supplier's name and source product identification appears in the certification statement on each CSF. If you do not already have the impurities information required on the CSF, please immediately contact each of your suppliers directly. The Agency is aware that one of the diazinon suppliers may elect to provide the impurities information direct to the Agency, but that supplier should provide you with an authorization letter for the Agency to access such information for your specific product.

Sincerely,

George T. LaRocca
Product Manager (13)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

0253

RESTRICTED USE PESTICIDE
DUE TO AVIAN AND AQUATIC TOXICITY

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

MICRO FLO
DIAZINON 50W
ORGANOPHOSPHATE

For control of certain insects and mites on fruits, nuts, vegetables, field crops, lawns, and ornamentals. For specific pests, refer to use directions.

THIS PRODUCT MUST NOT BE USED ON GOLF COURSES NOR ON SOD FARMS

ACTIVE INGREDIENT:

| | |
|---|--------|
| Diazinon [0,0-Diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate) | 50.0% |
| INERT INGREDIENTS:..... | 50.0% |
| TOTAL | 100.0% |

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.)

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with a finger. Repeat until vomit fluid is cleared. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF INHALED: Remove victim to fresh air and apply artificial respiration if indicated.

IF ON SKIN: Remove contaminated clothing and wash affected areas immediately with soap and water.

IF IN EYES: Flush eyes with plenty of water. Call a physician immediately.

NOTE TO PHYSICIAN: Product contains an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine by injection is antidotal. 2-IAM is also antidotal, and may be administered in conjunction with atropine. See Elsewhere On Label For Additional Precautionary Statements
This product is an organophosphorus ester that inhibits cholinesterase.

EPA Reg. No. 51036-108

EPA Est. No. 51036-GA-1

Manufactured By
MICRO FLO COMPANY
P.O. BOX 5948
LAKELAND, FLORIDA 33807

ACCEPTED
with COMMENTS
in EPA Ltr. Dated

FEB 23 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
51036-108

60453

PRECAUTIONARY STATEMENTS
Hazards To Humans And Domestic Animals

CAUTION

May be fatal if swallowed. May be absorbed through skin. Do not breathe dust or spray mist. Do not get in eyes, on skin, or on clothing. Avoid contamination of food. Keep out of reach of domestic animals. Do not contaminate feed or use on household pets or livestock.

ENVIRONMENTAL HAZARDS

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

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

PHYSICAL OR CHEMICAL HAZARDS

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

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Waterproof gloves
3. Shoes plus socks
4. Chemical-resistant headgear for overhead exposure

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 and maintaining PPE. If no such instructions for washables; use

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detergent and hot water. Keep and wash PPE seperately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing
3. 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

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.

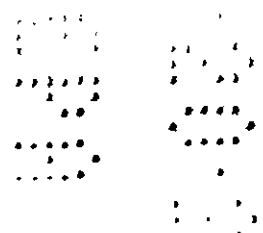
AGRICULTURAL USE REQUIREMENTS

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 and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not 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:

1. Coveralls
2. Waterproof gloves
3. Shoes plus socks
4. Chemical-resistant headgear for overhead exposure



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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.

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 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: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. 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 1-800-888-8372 day or night.

GENERAL INFORMATION

Diazinon 50W is a wettable powder which should be mixed with sufficient water to assure thorough coverage unless otherwise noted in the Directions for Use.

Best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

Since Diazinon 50W is a wettable powder formulation, constant agitation is necessary during application.

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

Do not use on food crops grown in greenhouses.

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) - CRANBERRIES ONLY

Diazinon 50W may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation

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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 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 (PRZ), or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the PRZ, 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 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 50W 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 50W to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when Diazinon 50W is used alone or 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

Diazinon 50W 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 Diazinon 50W for aerial spray or concentrated spray applied by ground equipment is based on a dilute full cover spray applied to fruit or nut trees with conventional ground equipment at a rate of 300-400 gallons of water per acre. The specific amount of product to be used appears

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

| Crop | Aerial Application Minimum Gals./Acre | Ground Minimum Application Gals./Acre | |
|-----------------|---------------------------------------|---------------------------------------|-------------|
| | | Dilute | Concentrate |
| Almonds* | 20 | 100 | 20 |
| Apples | 20 | 100 | 20 |
| Apricots | 20 | 100 | 20 |
| Blackberries** | 20 | 100 | 20 |
| Boysenberries** | 20 | 100 | 20 |
| Cherries | 20 | 100 | 20 |
| Cranberries | 20 | 15 | - |
| Dewberries** | 20 | 100 | 20 |
| Grapes | 20 | 100 | 20 |
| Loganberries** | 20 | 100 | 20 |
| Nectarines | 20 | 100 | 20 |
| Peaches | 20 | 100 | 20 |
| Pears | 20 | 100 | 20 |
| Pineapple | 20 | 200 | - |
| Plums | 20 | 100 | 20 |
| Prunes | 20 | 100 | 20 |
| Raspberries** | 20 | 100 | 20 |
| Strawberries | 20 | 100 | 20 |
| Walnuts* | 20 | 100 | 20 |

*CA only
 **CA, OR, or WA only
 Observe stated time intervals between last application and harvest, as well as intervals between application and total number of applications that can be made per season.

| Crop | PHI* |
|---------------|------|
| Almonds | ** |
| Apples | 21 |
| Apricots | 21 |
| Blackberries | 7 |
| Boysenberries | 7 |
| Cherries | 21 |
| Cranberries | 7 |
| Dewberries | 7 |
| Grapes | 28 |
| Loganberries | 7 |
| Nectarines | 21 |
| Peaches | 21 |
| Pears | 21 |
| Pineapple | 7 |
| Plums, Prunes | 21 |
| Raspberries | 7 |
| Strawberries | 5 |
| Walnuts | 45 |

*PHI = Pre-Harvest 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 or substantial numbers of weeds in the orchard are in bloom.

| Crop | Pest | Rate | Timing/Special Directions |
|----------------------|---|---|--|
| Almonds (CA only) | San Jose Scale, Parltatoria Scale, Black Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs | 1-1 1/2 lbs. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water | Apply as a single dormant spray. Do not apply more than 6 lbs. of product or 9 gals. of oil per acre. |

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| Apples | San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs | 1 lb. + 2 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water | Apply as a dormant or delayed dormant spray. Do not apply more than 4 lbs. or 6 gals. of oil per acre. |
| | Leafhoppers | 1 lb. in 100 gals. of water | Apply, beginning at petal fall, as infestations develop. Repeat application in 14 days if necessary. |
| | Eyespotted Bud Moths, Fruit Tree Leafrollers, Mealybugs | 1 lb. in 100 gals. of water | Make 3 cover sprays, beginning at pink stage. Do not repeat application closer than 14 days. |
| | Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Spider Mites | 1 lb. in 100 gals. of water | Make 3 cover sprays beginning when infestations occur. Do not repeat applications closer than 14 days. Note: Mites will be suppressed if diazinon is used in the regular cover spray program. Slight russeting may occur on some varieties of apples such as Golden Delicious. |
| | Apple Maggots | 1 lb. in 100 gals. of water | Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. Note: Diazinon may not control organophosphate-resistant apple maggots. |

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| Apples, continued | San Jose Scale Crawlers, Forbes Scale Crawlers | 1 lb. in 100 gals. of water | Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later. |
|----------------------|--|--------------------------------|---|

Note: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

| | | | |
|----------|---|---|---|
| Apricots | San Jose Scale, Parlitoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs | 1 lb. + 2 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water | Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. |
| | Aphids, Brown Mites (Clover Mites), Two- Spotted Spider Mites, Olive Scale Crawlers, San Jose Crawlers | 1 lb. in 100 gals. of water | Apply as infestations occur. Repeat application after 14 days if necessary. |
| | Olive Scale Crawlers | 1/2 lb. + 1 1/2 gals. of light medium horticultural oil in 100 gals. of water | Apply when scale crawlers are present. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre per application. |
| | Apricot Mealybugs | 1 lb. in 100 gals. of water | Apply as a cover spray from petal fall to June. Allow 14 days between applications. |

Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

| Crop | Pest | Rate | Timing/Special Directions |
|--|---|--|---|
| <p>Caneberries (CA, OR and WA only) (Blackberries Boysenberries Dewberries, Loganberries, Raspberries)</p> | <p>Leafhoppers, Thrips, Aphids, Two-Spotted Spider Mites, Raspberry Fruitworms</p> | <p>2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum)</p> | <p>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.</p> <p>For raspberry fruitworm make one application when blossom buds separate. Make a second application immediately before blossoms open.</p> |
| | <p>Dryberry Mites</p> | <p>2-4 lbs. per acre in minimum of 100 gals. of water</p> | <p>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.</p> |
| | <p>Raspberry Crown Borers (Raspberry Root Borers)</p> | <p>4 lbs. per acre in a minimum of 100 gals. of water</p> | <p>Apply as a drench to the crown and lower canes in the spring before buds break.</p> |
| <p>Cherries</p> | <p>San Jose Scale, Parlitoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs</p> | <p>1 1/4 lbs. + 3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water</p> | <p>Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.</p> |
| | <p>Eyespotted Bud Moths, Fruit Tree Leafrollers</p> | <p>1 lb. in 100 gals. of water</p> | <p>Apply as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.</p> |

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| Cherries, continued | Leafhoppers | 1 lb. in 100 gals. of water | Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications. |
| | Cherry Fruitflies | 1/2-1 lb. 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 lb. in 100 gals. of water | Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary. |
| | San Jose Scale Crawlers | 1 lb. in 100 gals. of water | Apply during the pre-pink stage or when crawlers first appear. |
| | Cherry Rust Mites | 1/2-1 lb. in 100 gals. of water | Apply as a single supplemental spray to trees after harvest. |

Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per year. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

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|-------------|-----------------------|--|--|
| Cranberries | Blackheaded Fireworms | 4 lbs. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation | Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted. |
| | Cranberry Fruitworms | 6 lbs. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation | Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 4 applications per season is permitted. |

Notes: (1) This product may be applied to cranberries through sprinkler irrigation. Refer to the section Chemigation for specific chemigation directions for use. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

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| Grapes | Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafhoppers, Aphids, Spider Mites | 1-2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum) | Apply as a thorough cover spray when pest appears. Repeat application after 7 days if necessary. |
| | Drosophila spp. | 6 oz. per acre in a minimum of 100 gals. of water (300 gals. of water maximum) | Apply as a through cover spray at 7 day intervals. |

Notes: (1) Do not apply more than 2 lbs. product per acre per application and no more than 10 lbs. per acre per season. (2) To avoid illegal residues, allow a minimum of 28 days between the last application and harvest.

NOTE. The REI for grapes in California is 5 days. When a mixture of two or more organic phosphate pesticides is applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

| Crop | Pest | Rate | Timing/Special Directions |
|------------|--|--|--|
| Nectarines | San Jose Scale, Parltatoria Scale, Brown Scale, European Red Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs | 1 lb. + 2-3 gals. of dormant oil 1-1 1/2 gals. superior type oil in 100 gals. of water | Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. |
| | Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers | 1 lb. in 100 gals. of water | Apply as infestations occur. Repeat application after 7 days if necessary. |
| | Peach Twig Borers, Partatoria Scale | 1 lb. + 1 gal. light medium summer horticultural oil in 100 gals. of water | Apply at petal fall. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre. |

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| Nectarines, continued | Olive Scale Crawlers | 1/2 lb. + 1 1/2 gals. light medium horticultural oil in 100 gals. of water | Apply as insect occur. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications. |
| | Oriental Fruitmoths | 1 lb. in 100 gals. of water | Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. |

Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest. NOTE: The REI for nectarines in California is 5 days. When a mixture of two or more organic phosphate pesticides is applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

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| Peaches | San Jose Scale, Parltatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs | 1 lb. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water | Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. |
| | Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers | 1 lb. in 100 gals. of water | Apply as infestations occur. Repeat application after 14 days if necessary. |
| | Peach Twig Borers, Parltatoria Scale | 1 lb. + 1 gal. light medium summer horticultural oil in 100 gals. of water | Apply at petal fall. Do not apply more than 4 lbs. of product or 4 gals. of oil per acre. |

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Peaches,
continued

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| Olive Scale Crawlers | 1/2 lb. + 1 1/2 gals. light medium horticultural oil in 100 gals. of water | Apply as insects occur. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications. |
| Oriental Fruit Moths | 1 lb. in 100 gals. of water | Apply at 100% petal fall. Make 2 additional applications at 10- 15 day intervals. Time the last application to peak adult flight. |
| Peach Twig Borers | 1 lb. in 100 gals. of water | Apply as insects occur in May and June. Allow 7 days between applications. |
| Leafhoppers | 1 lb. in 100 gals. of water | Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications. |
| White Peach Scale | 1 1/2 - 2 lbs. 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. |

Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest. NOTE: The REI for peaches in California is 5 days. When a mixture of two or more organic phosphate pesticides is applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

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| Crop | Pest | Rate | Timing/Special Directions |
|-------|---|---|---|
| Pears | San Jose Scale, Parltatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Pear Leaf Blister Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphids Eggs, Mealy Plum Aphid Eggs, Mealybugs | 1 lb. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gal ^s . of water | Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. |
| | Pear Psylla | 1/2-1 lb. in 100 gals. of water | Apply as a cover spray at pe-pink stage. Make 1-2 additional applications during the first and second cover sprays, if necessary. Allow at least 14 days between applications. |
| | Tentiform Leafminers, Mealybugs | 1 lb. in 100 gals. of water | Make 3 cover sprays, beginning in April. Allow at least 14 days between applications. |
| | Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Spider Mites | 1 lb. in 100 gals. of water | Make 3 cover sprays, beginning as infestations occur. Allow at least 14 days between applications. Note: Mites will be suppressed if diazinon is used in this regular cover spray program. |

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| Pears, continued | Apple Maggots | 1 lb. in 100 gals. of water | Make 3 cover sprays beginning when flies are active and laying eggs. Allow at least 14 days between applications. Note: Diazinon will not control organophosphate- resistant apple maggot. |
| | San Jose Scale Crawlers, Forbes Scale Crawlers | 1 lb. in 100 gals. of water | Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later. |

Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

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| Pineapple | Pineapple Mealybugs | 2 lbs. per acre in 200-500 gals. of water | Repeat application as necessary every 28 days up to a maximum of 8 applications. Do not apply within 7 days of harvest or illegal residues may occur. Pineapple forage and refuse may not be fed to livestock. |
| Plums | San Jose Scale, Parltatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs | 1 lb.+ 2-3 gals. dormant oil or 1- 1 1/2 gals. superior type oil in 100 gals. of water | Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. If applied in late April or May, mix diazinon with 1 gal. of light medium summer horticultural oil per 100 gals. of water. |
| | Brown Mites, Clover Mites, European Red Mites | 1 lb. in 100 gals. of water | Apply as needed every 7 days |

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| Plums, continued | Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids | 1/2-1 lb. in 100 gals. of water |
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Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

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| Prunes | San Jose Scale, Parltatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs | 1 lb. + 2-3 gals. dormant oil or 1- 1 1/2 gals. superior type oil in 100 gals. of water | Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre. For late April or May applications, mix diazinon with 1 gal. of light medium summer horticultural oil per 100 gals. of water. |
| | Brown Mites, Clover Mites European Red Mites | 1 lb. in 100 gals. of water | Apply as needed every 7 days. |
| | Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids | 1/2-1 lb. in 100 gals. of water | |

Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

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| Strawberries | Aphids, Two- Spotted Spider Mites | 1 lb. in 100 gal. of water per acre | Apply as pests occur. Repeat application, if necessary, after 7 days. |
| | Cyclamen Mites | 2 lbs. in 100 gals. of water per acre | Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat application after 7 days if necessary. |

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| Strawberries (continued) | Mole Crickets | 2 lbs. per acre | Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil. |
| | Strawberry Leafrollers | 3/4-1 lb. in 100 gals. of water | Apply 200 gals. of spray per acre when blossoms show color. |

Notes: (1) Do not make more than 3 foliar applications per season. (2) Do not apply more than 2 lbs. of product per acre per application and no more than 8 lbs. of product per acre per season. (3) Allow a minimum of 5 days between the last application and harvest.

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| Walnuts (CA only) | Aphids, Spider Mites | 2 lbs. in 100 gals. of water 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 with 45 days of harvest or after husks open or illegal residues may occur. |
| | Codling Moths, Scale Crawlers, Walnut Caterpillars | 6 lbs. in 100 gals. of water per acre | |

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Vegetable Crops

For foliar or soil applications, Diazinon 50W should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Diazinon 50W 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 OR Gals./Acre | Minimum Gals. 1,000 sq. Ft. | |
| 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 | 5 | 1 | 5 |
| Carrots | 10 | 2 | 5 |
| Casabas | 5 | 1 | 5 |
| Cauliflower | 10 | 2 | 5 |
| Chinese Broccoli | 10 | 2 | 5 |
| Chinese Cabbage | 10 | 2 | 5 |
| Chinese Mustard | 10 | 2 | 5 |
| Collards | 10 | 2 | 5 |
| Crenshaws | 5 | 1 | 5 |
| Cucumbers | 5 | 1 | 5 |
| Endive (Escarole) | 10 | 2 | 5 |
| Honeydew Melons | 5 | 1 | 5 |
| Kale | 10 | 2 | 5 |
| Lettuce (Head and Leaf) | 10 | 2 | 5 |
| Muskmelons | 5 | 1 | 5 |
| Mustard | 10 | 2 | 5 |

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| Onions (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 | 5 | 1 | 5 |
| Potatoes (Irish)* | 10 | 2 | 5 |
| Radishes | 10 | 2 | 5 |
| Spinach | 10 | 2 | 5 |
| Squash, Summer | 5 | 1 | 5 |
| Squash, Winter | 5 | 1 | 5 |
| Sweet Corn | 20 | 4 | 5 |
| Sweet Potatoes | 10 | 2 | 5 |
| Swiss Chard | 10 | 2 | 5 |
| Tomatoes | 10 | 2 | 5 |
| Turnips | 10 | 2 | 5 |
| Watermelons | 5 | 1 | 5 |

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

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season.

Pre-Harvest Intervals (PHI*) for Foliar Applications

| Crop | PHI* (Days) |
|------------------------------|-------------|
| Beans (Lima, Pole, and Snap) | 7 |
| Beets, Red (Table) | 14 |
| Broccoli | 7 |
| Brussels Sprouts | 7 |
| Cabbage | 21 |
| Cantaloupes | 3 |
| Carrots | 14 |
| Casabas | 5 |
| Cauliflower | 7 |
| Chinese Broccoli | 10 |
| Chinese Cabbage | 10 |
| Chinese Mustard | 10 |

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|--------------------------|----|
| Collards | 10 |
| Crenshaws | 3 |
| Cucumbers | 7 |
| Endive (Escarole) | 14 |
| Honeydew Melons | 3 |
| Kale | 10 |
| Lettuce (Head and Leaf) | 14 |
| Muskmelons | 3 |
| Mustard | 10 |
| Onions (Bulb and Green) | 14 |
| Parsnips | 14 |
| Peas | 7 |
| Peppers | 5 |
| Persian Melons | 3 |
| Potatoes (Irish) | 35 |
| Radishes | 14 |
| Spinach | 14 |
| Squash, Summer | 7 |
| Squash, Winter | 3 |
| Sweet Corn | 7 |
| Swiss Chard | 14 |
| Tomatoes | 1 |
| Turnips (Roots and Tops) | 14 |
| Watermelons | 3 |

*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 2-3 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 | PEST | RATE | TIMING/SPECIAL DIRECTION |
|---|---|--|--|
| Beans (Lima, Pole, and Snap) (succulent only) | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note). |
| | Wireworms | 6-8 lbs. per acre or 2 1/4- 3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers | 1-1 1/2 lbs. per acre or 2/5-3/5 oz. per 1,000 sq. ft. | 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. |
| | Cucumber Beetles | 1/2-3/4 lb. per acre or 1/5-3/10 oz. per 1,000 sq. ft. | 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: Diazinon will not control organophosphate- resistant leafminers. |

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| <p>Beans (Lima, Pole, and Snap) (succulent only) (continued)</p> | <p>Leafhoppers, Spider Mites</p> | <p>1 lb. per acre or 2/5 oz. per 1000 sq.ft.</p> | <p>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.</p> <p>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.</p> |
| <p>Beets, Red (Table)</p> | <p>Cutworms</p> | <p>4-8 lbs. per acre or 1 1/2- 3 oz. per 1,000 sq. ft.</p> | <p>Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)</p> |
| | <p>Mole Crickets</p> | <p>2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.</p> | <p>Apply to plant beds or fields 1-2 days before planting, and immediately incorporate into the top 1-2 inches of soil.</p> |
| | <p>Wireworms</p> | <p>6-8 lbs. per acre or 2 1/4- 3 oz. per 1,000 sq. ft.</p> | <p>Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.</p> |
| | <p>Aphids, Dipterous Leafmines</p> | <p>1/2-1 lb. per acre or 1/5- 2/5 oz. per 1,000 sq. ft.</p> | <p>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.</p> <p>Note: Diazinon will not control organophosphate- resistant leafminers.</p> |

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| Broccoli | Root Maggots | 4-8 lbs. per acre or 1 1/2-2 1/4 oz. per 1,000 sq. ft. | Broadcast just before planting 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 | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1,000 sq. ft. | Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |

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| <p>Broccoli (continued)</p> | <p>Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers</p> | <p>1/2-1 lb. per acre or 1/5- 2/5 oz. per 1,000 sq. ft.</p> | <p>Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 7 days of harvest, or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate- resistant leafminers.</p> |
| <p>Brussels Sprouts</p> | <p>Root Maggots</p> | <p>4-6 lbs. per acre or 1 1/2- 2 1/4 oz. 1,000 sq. ft.</p> | <p>Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.</p> |
| | | <p>4-8 oz. in 50 gals. of water</p> | <p>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.</p> <p>Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.</p> |
| | <p>Cutworms</p> | <p>4-8 lbs. per acre or 1 1/2- 3 oz. per 1,000 sq. ft.</p> | <p>Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note)</p> |
| | <p>Mole Crickets</p> | <p>2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.</p> | <p>Apply to plant beds 1- 2 days before planting and immediately incorporate into the top 1-2 inches of soil.</p> |

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| Brussels Sprouts (continued) | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbageworms | 1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. |
| Cabbage | Root Maggots | 4-6 lbs. per acre or 1 1/2 -2 1/4 oz. per 1000 sq.ft. | Broadcast just before planting 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 | 4-8 lbs. per acre or 1 1/2- 3 oz. per 1000 sq. ft. | Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1000 sq. ft. | Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil. |

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| Cabbage (continued) | Wireworms | 6-8 lbs. per acre or 2 1/4 - 3 oz. per 1000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers | 1/2- 1 lb. per acre or 1/5- 2/5 oz. per 1000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 21 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate resistant leafminers. |
| Carrots | Cutworms | 4-8 lbs. per acre or 1 1/2- 3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1,000 sq. ft. | Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4- 3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Carrot Rust Fly | 4 lbs. per acre or 1 1/2 oz. per 1,000 sq. ft. | Apply as a drench to the seed furrow at planting. |

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| Carrots (continued) | Aphids | 1 lb. per acre or 2/5 oz. per 1,000 sq. ft. | 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 | 4-6 lbs. per acre or 1 1/2- 2 1/4 oz. per 1,000 sq. ft. | Broadcast just before planting 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 | 4-8 lbs. per acre or 1 1/2- 3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1,000 sq. ft. | Apply to plant beds 1- 2 days before planting and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4- 3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |

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| Cauliflower (continued) | Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers | 1/2-1 lb. per acre or 1/5- 2/5 oz. per 1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, with minimum of 7 days between applications. Do not apply within 7 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate- resistant leafminers. |
| Chinese Broccoli, Chinese Cabbage (Bok Choy and Napa). Chinese Mustard (Gai Choy) | Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers | 1/2-1 lb. per acre or 1/5- 2/5 oz. per 1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, with minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate- resistant leafminers. |
| Collards | Cutworms | 4-8 lbs. per acre or 1 1/2- 3 oz. per 1000 sq.ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1000 sq.ft. | Apply to plant beds 1- 2 days before planting and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4- 3 oz. per 1000 sq.ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |

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| <p>Collards (continued)</p> | <p>Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Cabbagebugs, Corn Earworms</p> | <p>1/2-1 lb. per acre or 1/5- 2/5 oz. per 1000 sq.ft.</p> | <p>Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> |
| <p>Cucumbers</p> | <p>Cutworms</p> | <p>4-8 lbs. per acre or 1 1/2- 3 oz. per 1000 sq.ft.</p> | <p>Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)</p> |
| | <p>Wireworms</p> | <p>6-8 lbs. per acre or 2 1/4- 3 oz. per 1000 sq.ft.</p> | <p>Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.</p> |
| | <p>Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms</p> | <p>1 lb. per acre or 2/5 oz. per 1000 sq.ft.</p> | <p>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.</p> <p>Note: Diazinon will not control organophosphate- resistant leafminers.</p> |
| <p>Endive (Escarole)</p> | <p>Cutworms</p> | <p>4-8 lbs. per acre or 1 1/2- 3 oz. per 1000 sq.ft.</p> | <p>Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)</p> |
| | <p>Mole Crickets</p> | <p>2 lbs. per acre or 3/4 oz. per 1000 sq.ft.</p> | <p>Apply to plant beds or fields 1-2 days before planting or transplanting and immediately incorporate into the top 1-2 inches of soil.</p> |

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| Endive (Escarole) (continued) | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1000 sq.ft. | Broadcast just before planting and immediately incorporate 4-8 inches into soil. |
| | Aphids, Dipterous Leafminers | 1/2-1 lb. per acre or 1/5-2/5 oz. per 1000 sq.ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate-resistant leafminers. |
| Kale | Cutworms | 4-8 lbs. per acre or 1/5-2/5 oz. per 1000 sq.ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1000 sq.ft. | Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1000 sq.ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Cabbagebugs, Cori. Earworms | 1/2-1 lb. per acre or 1/5-2/5 oz. per 1000 sq.ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. |

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| Lettuce (Head and Leaf) | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1,000 sq. ft. | Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil. |
| | Aphids, Dipterous Leafminers | 1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate resistant leafminers. |
| Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, and Hybrids of these) and Watermelon | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note) |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |

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| <p>Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, and Hybrids of these) and Watermelon (continued)</p> | <p>Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites</p> | <p>1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft</p> | <p>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.</p> <p>Note: Diazinon will not control organophosphate resistant leafminers.</p> |
| <p>Mustard</p> | <p>Mole Crickets</p> | <p>2 lbs. per acre or 3/4-3 oz. per 1,000 sq. ft</p> | <p>Apply to plant beds 1- 2 days before planting and immediately incorporate into the top 1-2 inches of soil.</p> |
| | <p>Wireworms</p> | <p>6-8 lbs. per acre or 2 1/4- 3 oz. per 1,000 sq. ft.</p> | <p>Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.</p> |
| | <p>Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworms</p> | <p>1/2-1 lb. per acre or 1/5- 2/5 oz. per 1,000 sq. ft.</p> | <p>Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 10 days of harvest.</p> <p>Note: Diazinon will not control organophosphate resistant leafminers.</p> |
| <p>Onions (Bulb and Green)</p> | <p>Onion maggots</p> | <p>4-8 lbs. per acre or 1 1/2- 3 oz. per 1,000 sq. ft.</p> | <p>Broadcast just before planting and mix into the top 3-4 inches of soil. (See Soil Incorporation Note)</p> <p>Note: Diazinon will not control organophosphate resistant onion maggots.</p> |

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| Onions (Bulb and Green) (continued) | Onion Thrips | 1 lb. per acre or 2/5 oz. per 1,000 sq. ft | 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 | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| Parsley | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note) |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| Parasnips | Aphids, Flea Beetles, Dipterous Leafminers | 1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate resistant leafminers. |
| Peas (succulent only) | Cutworms | 4-8 lbs. per acre or 1 1/2 -3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note) |

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| Peas (succulent only) (continued) | Wireworms | 6-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note) |
| | Aphids, Dipterous Leafminers | 3/4-1 lb. per acre or 3/10-2/5 oz. per 1,000 sq. ft. | 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: Dazinon will not control organophosphate resistant leafminers. |
| Peppers | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1,000 sq. ft. | Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |

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| <p>Peppers (continued)</p> | <p>Aphids, Serpentine Leafminers</p> | <p>1/2 lb. per acre or 1/5 oz. per 1,000 sq. ft</p> | <p>Apply as insects occur. Repeat application after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate resistant leafminers.</p> |
| <p>Potatoes</p> | <p>Cutworms (Surface and Subterranean)</p> | <p>4-8 lbs. per acre or 1 1/2- 3 oz. per 1,000 sq. ft.</p> | <p>Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)</p> |
| | <p>Southern Potato Wireworms (Southeastern U.S.)</p> | <p>4-8 lbs. per acre or 1 1/2- 3 oz. per 1,000 sq. ft.</p> | <p>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.</p> |
| | <p>Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers</p> | <p>1/2-3/4 lb. per acre or 1/5-3/10 oz. per 1,000 sq. ft.</p> | <p>Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate resistant leafminers.</p> |
| | <p>Banded Cucumber Beetles, Leafhoppers, Southern Armyworms</p> | <p>3/4-1 lb. per acre or 3/10- 2/5 oz. per 1,000 sq. ft.</p> | <p>Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.</p> |

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

| Crop | Pest | Rate | Timing/Special Directions |
|----------|--|---|---|
| Radishes | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1,000 sq. ft. | Apply to plant beds or fields 1-2 days before planting and immediately incorporate in the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Flea Beetles, Dipterous Leafminers | 1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft. | <p>Apply as insects occur. Repeat application as necessary up to 3 times with a minimum of 7 days between applications.</p> <p>Do not apply within 14 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate resistant leafminers.</p> |
| Spinach | Aphids, Dipterous Leafminers | 1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft. | <p>Apply as insects occur. Repeat application as necessary up to 3 times with a minimum of 7 days between applications.</p> <p>Do not apply within 14 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate resistant leafminers.</p> |

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| Squash, Summer | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note) |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites | 1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate resistant leafminers. |
| Squash, Winter | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note) |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites | 1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft. | 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. |

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| Sweet Corn | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note) |
| | Seed Corn Maggots | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Corn Earworms | 2-2 1/2 lbs. per acre or 3/5-1 oz. per 1,000 sq. ft. | Apply when silks first appear. Repeat application every 7 days up to a maximum of 5 applications, if necessary. |
| | Corn Leaf Aphids | 1-2 lbs. per acre or 2/5-3/4 oz. per 1,000 sq. ft. | Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat in 7 days if necessary. Do not make more than 5 applications per season. |
| | Grasshoppers, Spider Mites, Fleabeetles | 1 lb. per acre or 2/5 oz. per 1,000 sq. ft. | Apply as insects occur. Repeat if necessary, but do not make more than 5 applications per season. |
| | Sap Beetles | 2-2 1/2 lb. per acre or 3/4-1 oz. per 1,000 sq. ft. | 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.

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| Sweet Potatoes | Wireworms, Flea Beetles | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| Swiss Chard | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note) |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |
| | Aphids, Corn Earworms, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbagebugs | 1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal residues may occur. |
| Tomatoes | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note) |
| | Mole Crickets | 2 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Apply to beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |

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| Tomatoes (continued) | Aphids, Dipterous Leafminers | 1/2 lb. per acre or 1/5 oz. per 1,000 sq. ft. | 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. |
| | Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms | 3/4-1 lb. per acre or 3/10-2/5 oz. per 1,000 sq. ft. | |
| | Vinegar Flies (Drosophila spp.) | 1/2- 1 1/2 lbs. per acre or 1/5- 3/5 oz. per 1000 sq. ft. | |
| Turnips (Roots and Tops) | Cutworms | 4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note) |
| | Mole Crickets | 2 lbs. per acre or 3/4 oz. per 1,000 sq. ft. | Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil. |
| | Wireworms | 6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil. |

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| Turnips, continued | Aphids, Flea Beetles, Dipterous Leafminers | 1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate resistant leafminers. |
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Mushroom Houses

Mushroom flies (Phorids and Sciarids)

Mix 4-5 lbs. of Diazinon 50W in 50 gallons of water and spray on outside and inside walls, floors and sideboards of mushroom houses after compost has been pasteurized by heating. Also spray over the plastic covering and the beds and trays after spawning.

Note: Do not spray the compost. To avoid illegal residues, do not apply more than 3 applications to mushroom houses per crop.

Seed Treatment - Planter Box Treatment

In the planter box, mix with seed as a dry mixture. Stir slightly using a mixing stick. DO NOT MIX WITH BARE HANDS. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seed beyond planting time. Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of excess treated seed by burial away from bodies of water.

Note:

(1) If seed has not been treated with a fungicide, use an EPA-registered fungicide combination with Diazinon 50W at rates indicated on the fungicide package. Failure to use a fungicide may result in injury to the seed.

(2) If the seed treatment increases the friction between seeds sufficiently to reduce the rate of delivery through the planter, 1/2 oz. of graphite per bushel seed should be added as a drill lubricant. Adjust the planter to give the required rate of seed delivery with the treated seed.

(3) Treated seed must not be used for or mixed with food or animal feed or processed for oil.

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Corn

Seedcorn Beetle: Mix 3 oz. per bushel of seed.

Corn, Succulent Peas and Succulent Beans

Seedcorn Maggot: Mix 1/2 oz. per bushel of seed.

Field Crops

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

Pre-Harvest Intervals (PHI*) For Foliar Applications

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

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

| Crop | Pest | Rate | Timing/Special Directions |
|-------------|----------------------|-------------------|---|
| Hops | Aphids, Spider Mites | 2 lbs. per acre | Apply as pests occur. Repeat applications, if necessary in 14 days. Do not make more than 4 applications per season or apply within 14 days of harvest or illegal residues may occur. |
| Sugar Beets | Wireworms | 6-8 lbs. per acre | Broadcast just before planting and immediately incorporate into the top 4-6 inches of soil. Do not apply more than 8 lbs. of this product to the soil, per season. |

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| Sugar Beets (continued) | Beet Leafhoppers, Dipterous Leafminers, Aphids | 3/4-1 lb. per acre | Apply as insects occur. Repeat application, as necessary, up to 5 times per season with a minimum of 7 days between applications. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate resistant leafminers. |
| | Grasshoppers | 1 lb. per acre | Apply as insects occur. Repeat application, as necessary, up to 5 times per season with a minimum of 7 days between applications. Do not apply within 14 days of harvest. |

Note: Tops may be fed to beef and dairy animals.

Grassland Insects

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

Grasshoppers: Apply 3/4-1 lb. per acre in sufficient water or oil to obtain thorough coverage when insects first appear, preferably in the nymphal stage.

Do not graze or use treated grass for food or feed.

Livestock Insects

Sheep "Ticks" (Keds), Lice

High gallonage, high pressure spray: Mix 1/2 lb. in 100 gals. of water, and apply at the rate of 1 gal. per animal.

Low gallonage, low pressure spray: Mix 1 lb. in 100 gals. of water. Apply at the rate of 1 qt. per animal.

Sprinkler Can: Mix 1 oz. in 6 gals. of water. Crowd sheep into a small pen and sprinkle 1 qt. of this mixture over the head, neck, top and side of each sheep. Stir or agitate mixture frequently.

Note: Do not slaughter sheep within 14 days after treatment. Repeat applications as necessary.

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Fly Control in Livestock Structures

Fly control in barns and animal sleeping quarters (except dairy barns, milk rooms, and poultry houses).

Residual Sprays: Remove animals from building or corral prior to treatment and keep animals out for at least four hours. Mix 2 lbs. of Diazinon 50W in 25 gals. of water and apply as an overall spray to ceilings and walls of livestock sheds, calf barns, hog barns, loafing sheds, and other farm buildings except poultry houses, dairy barns, and milk rooms. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly. Longer residual control may be obtained by increasing the rate to 4 lbs. in 25 gals. of water. Applications should be made to point of runoff. One gal. of the above spray should cover from 350-750 sq. ft. of area, depending on the surface treated. Repeat applications as fly populations warrant.

Belt Sprays: Mix the appropriate amount of Diazinon 50W with 1 lb. of sugar (or 2 cups of syrup or molasses) for the desired application.

For knapsack or similar type sprayer, mix 1/2 lb. with the sugar in 2 1/2 gals. of water and spot treat areas frequented by flies including cracks, crevices, doorways, around windows, or other areas where flies congregate. Repeat applications as fly populations warrant.

For sprinkling can application, mix 2 oz. with the sugar in 5 gals. of water and sprinkle lightly over the floor in areas frequented by flies. Applications every day or two will generally be required.

Do not contaminate milk, feed, drinking water, or apply to animals or poultry. Do not use in edible product areas of food processing plants or other areas where food is commercially prepared or processed. Do not use in dwellings.

Insect Control on Ornamentals

To control certain insects on ornamentals, such as Arborvitae, Azalea, Birch, Boxwood, Camella, 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 | |
|--|-----------------------|--------------------------|
| | Rate per 3 gals water | Rate per 100 gals. water |
| Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf-tiers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-Spotted Spider Mites, Juniper Webworms, Whiteflies | 1/2 oz. | 1 lb. |
| Apple-and-Thorn Skeletonizers, Cottoneaster Webworms, Fall Webworms, Hemlock Cherries, Oak Loopers, Oblique-banded Leafrollers, Pear Slugs, Tent Caterpillars | 1 1/2 oz. | 3 lbs. |

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

Mimosa Webworms: Mix 1/2 oz. in 3 gals. of water (or 1 lb. in 100 gals. of water) and apply as a thorough foliar 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, 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 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/1000 sq. ft. | | Remarks |
|------------------|-------------------|---------|---|
| | Diazinon 50W | Water | |
| Lawn Chinch Bugs | 2-3 oz. | 3 gals. | Use higher rate for longer residual control and in turfgrass of dense growth such as St. Augustine. |

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| Ants, Armyworms, Bermudagrass Mites, Clover Mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs), Brown Dog Ticks, Chiggers, Fleas | 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 fruit flies, mow grass and water well before treatment, but delay application until grass is dry. Do not apply to animals. For brown dog ticks, spray grass and under shrubbery. |
| 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, Springtails (Collembola).

Mix 3 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 plants (except tree trunks) at this nuisance pest rate.

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

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CONDITIONS OF SALE AND WARRANTY

The Directions of 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 MICRO FLO or the Seller. All such risks shall be assumed by the Buyer.

MICRO FLO warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. MICRO FLO makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall MICRO FLO or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. MICRO FLO 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 MICRO FLO.