

MAR - 9 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 AG 500  
EPA Registration Number 51036-71  
Your submission dated February 24, 1995

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) The Agency assumes that the product name will be centered over the term "ORGANOPHOSPHATE".
  - b) Delete "Recommended for Agricultural or Commercial Use Only", since Restricted Use classification superseded this limitation.
  - c) Add the common name "Diazinon" after ACTIVE INGREDIENT:". Then add brackets around the formula name for diazinon.
  - d) Add a space between INERT and INGREDIENTS. Then add an asterisk after INGREDIENTS. Beneath the ingredients statement add "Contains Xylene Range Aromatic Solvent".

Note: Do not include the quotation marks appearing around

text specified in this letter when preparing your label.

- e) In the Spanish text, you do not need to capitalize the "U" of "usted".
- f) Under **Statement of Practical Treatment**, revise "ORGANOPHOSPHATE" to "This product is an organophosphate."
- g) Revise the **IF SWALLOWED** advice to read as follows:

**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.

- h) Revise the **IF IN EYES** advice to read as follows:

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

- i) Delete "This product is an organophosphate ester that inhibits cholinesterase." Then revise the **NOTE TO PHYSICIAN** to read as follows:

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

- j) Revise the text of the **Hazards to Humans and Domestic Animals** to read 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):

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

- k) In the **Personal Protective Clothing** paragraph, revise "barrier laminate or viton" to "barrier laminate or Viton ≥14 mils" (this same revision should be made in the **Agricultural Use Requirements** block).
- l) Relocate the beginning of the directions for use, from the heading **DIRECTIONS FOR USE** through "call 1-800-888-8372 day or night." to appear directly after "as directed to maintain control." on page 4 (i.e., at the end of the **Precautionary Statements**). Directly under the heading **DIRECTIONS FOR USE**, revise "Federal Law" to "Federal law".
- m) In the first sentence of the **STORAGE AND DISPOSAL** text revise "or feed y storage or" to "or feed by storage or". The Agency doubts that this product is packaged in a bag. Revise the **CONTAINER** disposal directions to read: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.
- n) On page 5, in item 2 under the heading **Chemigation System Connected to Public Water Systems**. revise "PRZ" to "RPZ" in both locations that it appears.
- o) On page 6, revise the second sentence of item 3 in the **"Operating Instructions"** to read as follows: "Proper agitation is needed if Diazinon AG 500 is tank mixed with other pesticides registered for sprinkler chemigation application to cranberries."
- p) If possible, for all the crop entries on this label the **Notes** should appear with the directions for that particular crop, i.e. within the boundaries of the double line that delineates each crop. This could be done by using a single line under the last Pest, Rate, and Timing/Special Directions entry for each crop with the **Notes** then appearing in the space under that, but still connected to the Crop name (as seen on the Ciba-Geigy label). This would avoid any potential misunderstanding by product users as to which **Notes** go with which crop. Alternatively, and less preferred, would be to ensure that a minimum of one blank line occurs after the last word in each **Note** before the double line indicating the beginning of another crop entry.
- q) For each page throughout the label with crop listings, the column headings (Crop, Pest, Rate, Timing/Special Directions) should be repeated at the top of each page. If necessary, the crop name may have to be repeated with

"(continued)" if a crop entry runs over one page. This heading location may vary depending on the text is divided on the actual container labeling or booklet configuration.

- r) Directly under the heading **Fruit and Nut Crops** add "**REI - 24 hours**".
- s) For the crop **Cranberries**, in the Timing/Special directions for control of both **Blackheaded Fireworms**, and **Cranberry Fruitworms**, add "Do not apply within 7 days of harvest or illegal residues may occur."
- t) Directly under the heading **Vegetable Crops** add "**REI - 24 hours**".
- u) For the crop **Beans**, delete the horizontal line under the bottom of the Timing/Special Directions column on page 19 since the comments carry over to page 20 and include those with the pest **Cucumber Beetles** (i/e. those comments apply to both pests).
- v) Throughout the **Vegetable Crops** listings, for each location where the pest **Mole Crickets** appears (**Beets, Broccoli, Brussel Sprouts, Cabbage, Carrots, Cauliflower, Collards, Endive, Kale, Lettuce, Mustard, Peppers, Radishes, Tomatoes, and Turnips**), revise the associated Timing/Special Directions to read as follows:  
  
Apply to plant beds or fields, 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
- w) For the crop **Beets, Red (Table)** correct the spelling of the pest name "**Leafminers**".
- x) For the crops **Broccoli, Brussel Sprouts, and Cauliflower** revise the Timing/Special Directions for the pest **Root Maggots** to read as follows:  
  
Apply to plant beds or fields, just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
- y) For the crop **Carrots**, correct the rate for the pest **Cutworms** to read "**2-3 qts. per acre**".
- z) For the crops **Cauliflower, Chinese Broccoli, Chinese Cabbage, and Chinese Mustard**, in the Timing/Special Directions for the pest group **Aphids, etc.**, revise "up to 5 times" to read "**up to 5 times per season**".

- aa) For the **Ginseng**, in the Timing/Special Directions the sentence "**Do not apply more than one application per growing season.**" should appear in bold type.
  - bb) For the crop **Kale**, correct the spelling of the pest name "Harlequin", and correct the last sentence in the Timing/Special Directions for that pest grouping to read: "Do not apply within 10 days of harvest or illegal residues may occur."
  - cc) For the crop **Spinach**, delete the rate "or 1/5 -2/5 oz. per 1,000 sq. ft. for the pests Aphids and Dipterous Leafminers.
  - dd) For the crop **Sweet Corn**, correct the pest name "Fleabeetles" to read "Flea Beetles". Also, for the pest Sap Beetles, correct the Rate entry to read "2-2 1/2 pts. per acre".
  - ee) Directly under the heading **Field Crops** add "**REI - 24 hours**". Also, revise the first sentence under this heading to read as follows: "Soil and foliar applications of Diazinon AG 500 should always be applied as spray in sufficient water to ensure thorough coverage.
  - ff) For the crop **Sugar Beets**, correct the last sentence in the Timing/Special Directions for the pest Wireworms to read: "Do not apply more than 4 qts. of this product to the soil per season."
  - gg) 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".
  - hh) For the pest Mimosa Webworms, Mix 1/2 fl. oz. in 3 gals. of water (or 1 pt. in 100 gals of water) and apply as a thorough spray when adults first appear.
  - ii) In the **Precautions** under the heading **Lawn Pest Control**, in the first sentence add a comma after ", especially waterfowl".
  - jj) 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. Labeling

released for shipment after the deadline imposed by the Diazinon Registration Standard, as amended, must be the revised amended label.

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.

A revised Confidential Statement of Formula (CSF), 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 manufacturing-use 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 diazinon, if you have more than one source. Be sure that the correct supplier's name and source product

identification appears in the certification statement on each CSF, if you have multiple suppliers. 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 specific impurities information direct to the Agency, but that supplier should provide you with an authorization letter for the Agency to use such information for your specific product.

Sincerely,

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

**RESTRICTED USE PESTICIDE**

**DUE TO AVIAN AND AQUATIC TOXICITY**

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

**DIAZINON AG 500  
ORGANOPHOSPHATE**

**Recommended for Agricultural or Commercial Use Only**

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

This product contains 4 pounds Diazinon Insecticide per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

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

**STATEMENT OF PRACTICAL TREATMENT  
ORGANOPHOSPHATE**

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

IF INHALED: Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

IF ON SKIN: Remove contaminated clothing and wash affected areas thoroughly with soap and water. Get medical attention.

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

This product is an organophosphorus ester that inhibits cholinesterase.

NOTE TO PHYSICIAN: Solvent presents aspiration hazard. Gastric lavage may be indicated if material was taken internally. Diazinon is a cholinesterase inhibitor. Atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

See Additional Precautionary Statements Inside

EPA Reg. No. 51036-71

EPA Est. No: 51036-GA-1

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

MAR - 9 1995

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

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended by the pesticide  
reform act of 1972, Reg. No.

51036-71



**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**

**CAUTION**

May be fatal if swallowed. May be absorbed through the skin. May cause contact sensitization following repeated contact with skin in susceptible individuals. Avoid repeated contact with skin. If sensitization reactions results, consult a physician. May be injurious to eyes and skin. Combustible liquid. Do not take internally. Do not get in eyes, on skin or clothing. Avoid contamination of food and feedstuff. Flush contaminated eyes with plenty of water.

**PERSONAL PROTECTIVE EQUIPMENT**

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

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Chemical-resistant gloves, such as barrier laminate or viton
3. Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and 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:

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.

**BEST COPY AVAILABLE**

#### 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, notification to workers, 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. Chemical-resistant gloves, such as barrier laminate or viton
3. Shoes plus socks

#### NON-AGRICULTURAL USE REQUIREMENTS

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

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

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed y 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

**BEST COPY AVAILABLE**

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.

#### 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.

#### GENERAL INFORMATION

Diazinon AG500 is an emulsifiable solution which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Do not use on food crops grown in greenhouses. Do not use in barns or dwellings. Do not use on livestock.

In the directions for use which follow, best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

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

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) -  
CRANBERRIES ONLY

Diazinon AG500 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 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 AG500 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 AG500 to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when Diazinon AG500 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 AG500 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 AG500 for aerial spray or concentrated spray applied by ground equipment is based on a dilute full cover spray applied to fruit or nut trees with conventional ground equipment at a rate of 300-400 gallons of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the "Rate" calls for 1 pint of Diazinon AG500 per 100 gallons of water, this amounts to 3-4 pts. of product per acre when applied to fruit trees at usual dilute ground spray volumes of 300-400 gallons of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the Timing/Special Directions for use for individual crops.

Crop	Aerial Application Minimum Gals./Acre	Ground Minimum	
		Dilute	Concentrate
Almonds*	20	100	20
Apricots	20	100	20
Blackberries**	20	100	20
Boysenberries**	20	100	20
Cherries	20	100	20
Cranberries	20	15	-
Dewberries**	20	100	20
Grapes	20	100	20
Loganberries**	20	100	20
Nectarines	20	100	20
Peaches	20	100	20
Plums	20	100	20

Prunes	20	100	20
Raspberries**	20	100	20
Strawberries	20	100	20
Walnuts*	20	100	20

\*CA only

\*\*CA,OR, or WA only

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	**
Apricots	21
Blackberries	7
Boysenberries	7
Cherries	21
Cranberries	7
Dewberries	7
Grapes	28
Loganberries	7
Nectarines	21
Peaches	21
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.

10.21.55

Crop	Pest	Rate	Timing/Special Directions
Almonds (CA only)	San Jose Scale, Parlatoria Scale	1-1 1/2 pts. + 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 6 lbs. of product or 9 gals. of oil per acre.

Apricots	Aphids, Brown Mites (Clover Mites), Two- Spotted Spider Mites, Olive Scale Crawlers, San Jose 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 in 100 gals. of water	Apply when scale crawlers are present.
	Apricot Mealybugs	1 pt. in 100 gals. of water	Apply as a cover spray from petal fall to June. Allow 14 days between applications.

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



Crop	Pest	Rate	Timing/Special Directions
Caneberries (CA, OR and WA only) (Blackberries Boysenberries Dewberries, Loganberries, Raspberries)	Leafhoppers, Thrips, Aphids, Two-Spotted Spider Mites, Raspberry Fruitworms	1 qt. per acre	Apply as insects occur. Repeat application after 14 days if necessary. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.  Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum)  For raspberry fruitworm make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mites	1-2 qts. per acre	Apply as a dormant spray in the early Spring, when canes are still on the ground and buds are closed. Make a second application when buds are well developed but still closed. Apply in a minimum of 100 gals. of water per acre. Do not apply within 7 days of harvest or illegal residues may occur.
	Raspberry Crown Borers (Raspberry Root Borers)	2 qts. per acre	Apply in single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the Spring before buds break.

Cherries	Eyespotted Bud Moths, Fruit Tree Leafrollers	1 pt. in 100 gals. of water	Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.
	Leafhoppers	1 pt. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.
	Cherry Fruitflies	1/2-1 pt. 100 gals. of water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals.
	Black Cherry Aphids	1 pt. in 100 gals. of water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.
	San Jose Scale Crawlers	1 pt. in 100 gals. of water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mites	1/2-1 pt. in 100 gals. of water	Apply as a single supplemental spray to trees after harvest.

Notes: (1) Do not make more than 3 applications per season. (2) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. (3) Allow a minimum of 21 days between the last application and harvest.

Cranberries	Blackheaded Fireworms	2 qts. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted.
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Cranberries, continued	Cranberry Fruitworms	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.
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Notes: (1) This product may be applied to cranberries through sprinkler irrigation. Refer to the section Chemigation for specific chemigation directions for use.

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

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

NOTE: THE CALIFORNIA DEPARTMENT OF AGRICULTURE HAS SET A 5-DAY RE-ENTRY TO DIAZINON INSECTICIDE ON GRAPES. FIVE DAYS SHOULD LAPSE BETWEEN THE TIME OF APPLICATION AND THE TIME A WORKER MAY ENTER THE FIELD TO ENGAGE IN ANY ACTIVITY REQUIRING SUBSTANTIAL CONTACT WITH TREATED FOLIAGE. When a mixture of two or more organic pesticides are applied in combination, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.

Crop	Pest	Rate	Timing/Special Directions
Nectarines	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 7 days if necessary.
	Oriental Fruitmoths	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.

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. NOTE: THE CALIFORNIA DEPARTMENT OF AGRICULTURE HAS SET A 5-DAY RE-ENTRY TO DIAZINON INSECTICIDE ON NECTARINES. FIVE DAYS SHOULD LAPSE BETWEEN THE TIME OF APPLICATION AND THE TIME A WORKER MAY ENTER THE FIELD TO ENGAGE IN ANY ACTIVITY REQUIRING SUBSTANTIAL CONTACT WITH TREATED FOLIAGE. When a mixture of two or more organic pesticides are applied in combination, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.

Peaches	Aphids, Brown Mites (Clover Mites), 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.
	Leafhoppers	1 pt. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications.
	White Peach Scale	1 1/2 - 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) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest. NOTE: THE CALIFORNIA DEPARTMENT OF AGRICULTURE HAS SET A 5-DAY RE-ENTRY TO DIAZINON INSECTICIDE ON PEACHES. FIVE DAYS SHOULD LAPSE BETWEEN THE TIME OF

APPLICATION AND THE TIME A WORKER MAY ENTER THE FIELD TO ENGAGE IN ANY ACTIVITY REQUIRING SUBSTANTIAL CONTACT WITH TREATED FOLIAGE. When a mixture of two or more organic pesticides are applied in combination, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.

Plums	Brown Mites, Clover Mites, European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 pt. in 100 gals. of water	

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

Prunes	Brown Mites, Clover Mites European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 pt. in 100 gals. of water	

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

Strawberries	Aphids, Two- spotted, Spider Mites	1 pt. in 100 gals. of water per acre	Apply as pests occur. Repeat application if necessary every 7 days, but do not make more than 3 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.
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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 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
Strawberry Leafrollers	3/4-1 pt. in 100 gals. of water	Apply 200 gals. of spray per acre when blossoms show color. Do not apply within 5 days of harvest or illegal residues may occur.

Walnuts (CA only)	Aphids, Spider Mites	1 qt. per acre	Apply as a foliar spray as needed. Repeat application in 14 days if necessary. Do not make more than 3 applications per season. Do not apply with 45 days of harvest or after husks open or illegal residues may occur. Make ground applications in a minimum of 100 gals. of water per acre.
	Codling Moths, Scale Crawlers, Walnut Caterpillars	3 qts. per acre	

#### Vegetable Crops

For foliar or soil applications, Diazinon AG500 should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Diazinon AG500 may be applied aurally 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
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	3
Cauliflower	7
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Radish	10
Chinese Mustard	10
Collards	10
Crenshaws	3
Cucumbers	7
Ginseng	30
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 Top)	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	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note).
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers	1-1 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.

<p>Beans (continued)</p>	<p>Cucumber Beetles</p>	<p>3/4 pt. per acre</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>Make cucumber beetle application in 100 gals. of water per acre.</p> <p>Note: 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.</p>
<p>Beans, Lima (succulent only)</p>	<p>Leafhoppers, Spider Mites</p>	<p>1 pt. per acre</p>	<p>Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.</p> <p>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>Note: To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.</p>
<p>Beets, Red (Table)</p>	<p>Cutworms</p>	<p>2-4 qts. per acre</p>	<p>Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)</p>

Beets, Red  
(Table)  
(continued)

Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before planting, and immediately incorporate into the top 1-2 inches of soil.	
Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
Dipterous Leafmines	1/2-1 pt. per acre	<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>Do not apply within 14 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p>	
Broccoli	Root Maggots	2-3 qts. per acre	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	<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>

Broccoli (continued)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 7 days of harvest, or illegal residues may occur.  Note: Diazinon will not control organophosphate-resistant leafminers.
Brussels Sprouts	Root Maggots	2-3 qts. per acre	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.

Brussels Sprouts (continued)		4-8 oz. in 50 gal. water	In transplant water as a drench application when 200-300 gal. of water are used per acre. Apply 1/2-1 cup (4 to 8 oz.) per plant by hand or by tractor- mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note)
	Mole Crickets	1 qt. per acre	Apply to plant beds 1- 2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 7 days of harvest, or illegal residues may occur.
Cabbage	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.

**Cabbage  
(continued)**

	4-8 oz. in 50 gal. water	In transplant water as a drench application when 200-300 gal. of water are used per acre. Apply 1/2-1 cup (4 to 8 oz.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 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.

Carrots	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids	1 qt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications.  Do not apply within 14 days of harvest, or illegal residues may occur.
Cauliflower	Root Maggots	3-4 qts. per acre	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gal. water	In transplant water as a drench application when 200-300 gal. 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.



Cauliflower (continued)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Mole Crickets	1 qt. per acre	Apply to plant beds 1- 2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 5 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate- resistant leafminers.
Chinese Broccoli,	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 pt. per acre	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.

<p>Chinese Cabbage (Bok Choy and Napa).</p>	<p>Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers</p>	<p>1/2-1 pt. per acre</p>	<p>Apply as insects occur. Repeat application, as necessary, up to 5 times, with minimum of 7 days between applications.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p>
<p>Chinese Mustard (Gai Choy)</p>	<p>Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers</p>	<p>1/2-1 pt. per acre</p>	<p>Apply as insects occur. Repeat application, as necessary, up to 5 times, with minimum of 7 days between applications.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p>
<p>Chinese Radish (Japanese Radish or Daicon) (FL and CA only)</p>	<p>Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers</p>	<p>1 pt. per acre</p>	<p>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.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate resistant leafminers.</p>

Collards	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing or seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin bugs, Corn Earworms	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 10 days of harvest or illegal residues may occur.
Cucumbers	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Cucumbers (continued)	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 7 applications per season.  Do not apply within 7 days of harvest or illegal residues may occur.  Note: Diazinon will not control organophosphate resistant leafminers.
Endive (Escarole)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 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	3/4-1 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.
Kale	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin bugs, Corn Earworms	1/2-1 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	2-4 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 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply 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 Watermelons	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

<p>Melons (Continued)</p>	<p>Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites</p>	<p>1/2-1 1/2 pts. per acre</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>1 pt. per acre</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>3-4 qts. per acre</p>	<p>Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.</p>
	<p>Cutworms</p>	<p>2-4 qts. per acre</p>	<p>Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)</p>
	<p>Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworms</p>	<p>1/2-1 pt. per acre</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>

Onions (Bulb and Green)	Onion maggots	2-4 qts. per acre	Broadcast just before planting and mix into the top 3-4 inches of soil. (See Soil Incorporation Note)  Note: Diazinon will not control organophosphate resistant onion maggots.
	Onion Thrips	1 pt. per acre	Apply as thrips appear. Repeat after 7 days, if necessary. Do not make more than 3 applications per season.  Do not apply within 14 days of harvest or illegal residues may occur.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Parsley	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.



Parsnips	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	<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 14 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate resistant leafminers.</p>
Peas (succulent only)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note)
	Aphids, Dipterous Leafminers	3/4-1 pt. per acre	<p>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.</p> <p>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.</p> <p>Note: Diazinon will not control organophosphate resistant leafminers.</p>

Peppers	Cutworms	2-4 pts. 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 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers	1/2-1 pt. per acre	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.  Note: Diazinon will not control organophosphate resistant leafminers.
Potatoes	Cutworms (Surface and Subterranean)	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Southern Potato Wireworms (Southeastern U.S.)	2-4 qts. per acre	For potatoes grown on mineral soils in the Southeast, apply prior to planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Potatoes (Continued)	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	1/2-3/4 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.  Note: Diazinon will not control organophosphate resistant leafminers.
	Banded Cucumber Beetles, Leafhoppers, Southern Armyworms	3/4-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.

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

Crop	Pest	Rate	Timing/Special Directions
Radishes	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before planting and immediately incorporate in the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Radishes (continued)	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	<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	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 pt. 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>
Squash, Summer	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note)

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

Sweet Corn  
(continued)

Seed Corn Maggots	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Corn Earworms	1-1 1/4 qts. per acre	Apply when silks first appear. Repeat application every 7 days up to a maximum of 5 applications, if necessary.
Corn Rootworm (Adults)	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
Corn Leaf Aphids	1-2 pts. per acre	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat in 7 days if necessary. Do not make more than 5 applications per season.
Grasshoppers, Spider Mites, Fleabeetles	1 pt. per acre	Apply as insects occur. Repeat if necessary, but do not make more than 5 applications per season.
Sap Beetles	2-2 1/2 pt. per acre	Consult local agricultural authorities for proper timing of application. Repeat application in 7 days, if necessary. Do not make more than 5 applications per season.

Notes: (1) To protect bees, do not apply foliarty to corn during the pollen shed period. (2) Allow a minimum of 7 days between the last application and grazing or cutting for forage. (3) Corn may be picked 7 days after the last application.

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

Tomatoes (continued)	Aphids, Dipterous Leafminers	1/2 pt. per acre	Apply as insects occur. Repeat application after 7 days, as necessary. Do not make more than 5 applications per season.  Do not apply within 1 day of harvest or illegal residues may occur.  Note: Diazinon will not control organophosphate resistant leafminers.
	Vinegar Flies (Drosophila spp)	1/2-1 1/2 pts. per acre	
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	3/4-1 pt. per acre	
Turnips (Roots and Tops)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.



Turnips (continued)	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 14 days of harvest or illegal residues may occur.  Note: Diazinon will not control organophosphate resistant leafminers.
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### Field Crops

Apply soil and foliar applications of Diazinon AG500 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	1 qt. per acre	Apply as pests occur. Repeat applications, if necessary in 14 days. Do not make more than 4 applications per season or apply within 14 days of harvest or illegal residues may occur.

Sugar Beets	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-6 inches of soil.  Do not apply more than 8 lbs. of this product to the soil, per season.
	Beet Leafhoppers, Dipterous Leafminers, Aphids	3/4-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times per season with a minimum of 7 days between applications.  Do not apply within 14 days of harvest.  Note: Diazinon will not control organophosphate resistant leafminers.
	Grasshoppers	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times per season with a minimum of 7 days between applications.  Do not apply within 14 days of harvest.

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

#### Grassland Insects

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

Grasshoppers: Spray 3/4-1 pt. per acre in water (minimum of 1 gal. of water per acre) for aerial applications or a minimum of 5 gals. of water per acre for ground applications or in oil (a minimum of 1 gal. of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential.

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

### Insect Control on Ornamentals

To control certain insects on ornamentals, such as Arborvitae, Azalea, Birch, Boxwood, Camella, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladioli, Hawthorn, Holly, Juniper, Lilas, 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 Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf tiers, Privet Mites, Scale Crawlers (Cottonycushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-Spotted Spider Mites, Juniper Webworms, Whiteflies	1/2 oz.*	1 pt.**
Apple-and-Thorn Skeletonizers, Cottoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars	1 1/2 oz.*	3 pts.**

\* 1 Fl. oz. = 2 tablespoons

\*\* 16 Fl. oz. = pint

Precaution: 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 AG500	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.
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs),	2-3 oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For digger wasps, apply product at dusk when wasps are not active.  For frit flies, mow grass and water well before treatment, but delay application until grass is dry.
Brown Dog Ticks, Chiggers, Fleas	3 oz.	3 gals.	Note: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.
Hyperodes Weevils	3 oz.	3 gals.	Treat problem areas in mid-April and again in mid-May.
Millipedes	3 oz.	3 gals.	
Rhodesgrass Scales	3 oz.	3 gals.	Apply when crawlers first emerge.
White Grubs, (Japanese Beetle Larvae, European Chafer, Southern Chafer)	3 oz.	3 gals.	Apply any time between late July and early October.

**Nuisance Pests in Outside Areas:**

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

#### 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.