

769-689

05/02/2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Value Garden Supply, LLC.  
c/o Ms. Carrie Crawford  
Rt. 2 Box 956  
New Castle, VA 24127

MAY - 2 2002

Dear Ms. Crawford:

Subject: Amendment- Comply with 2000 Diazinon MOA;  
Delete Alfalfa, Beans, Cucumbers, Parsley,  
Parsnips, Peas, Peppers, Potatoes,  
Summer Squash, Winter Squash, Sweet Potatoes,  
Swiss Chard, Tobacco, Turnips, Grasslands,  
Ditchbanks, Roadsides, Non-crop Areas,  
Barrier Strips, Wasteland, Nuisance Pests,  
Lawns, and Indoor Ornamentals  
Update First Aid per PR Notice 2001-1; and  
Update CSF/replacement diazinon source  
SMCP Diazinon AG 500  
EPA Registration Number 769-689  
Your submissions dated June 30 and November 8, 2001,  
and associated FAX of May 2, 2002

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. On the front panel claims, revise "...Field Crops, and Ornamentals" to read "...Field Crops, and Ornamentals grown outdoors in nurseries".
  - b. Since there is no lawn use on the label, delete the front panel limitation "This product must not be used on golf courses and sod farms".
  - c. Under the ingredients statement, relocate "Contains 4 lbs. diazinon per gallon" to appear as a separate line below the solvent footnote.

- d. Under the heading PERSONAL PROTECTIVE EQUIPMENT, above "Applicators and other handlers must wear:" add the following "Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category F on an EPA chemical resistance Selection chart."
- e. In the FIRST AID section, relocate the IF SWALLOWED advice to be the first item presented.
- f. Under the heading HOTLINE NUMBER correct the spelling of "ORGANOPHOSPHATE".
- g. Under the heading DIRECTIONS FOR USE, slightly revise the prohibition so that it reads, "Reformulation or repackaging of this product is prohibited."
- h. Delete the Non-Agricultural Use Requirements box and its associated text since all the remaining uses on this label are agricultural uses.
- i. In the Chemigation directions, correct the several references to this product to read "SMCP Diazinon AG 500" rather than "All Pro Diazinon AG500". Also, be sure to relocate the Operating Instructions (page 4) up to join the end of the Chemigation directions on page 2.
- j. In the Environmental Hazards, delete the sentence that refers to the now deleted use on lawns. Specifically, delete the sentence beginning "On lawns, if waterfowl...".
- k. Delete the section entitled Special Precautions to Reduce Risks to Birds. These are lawn use precautions, and lawn use has been deleted.
- l. Under the heading GENERAL INFORMATION, replace the sentence "Do not use in barns or dwellings." to read "Do not use in greenhouses, barns, or dwellings."
- m. As we recently discussed regarding the use and submission of a separate container label and booklet label, the abbreviated Agricultural Use Requirements block (as shown on page 3) or the full block (page 2) and the referral statement to the booklet should appear on the container label. Be sure to include the Storage and Disposal section on both labels. Among other items, the booklet should contain the full version of the Agricultural Use Requirement block and should not contain the referral to the booklet. You must submit both the container label and the booklet when submitting your finished labeling in response to this letter. Note that there are certain minimum information/items that must be present on it. Please refer to Novartis's separate container label for their D.z.n Diazinon AG500 product as a guide when preparing your container label.

- n. Under the heading Work Safety Rules, correct the reference to this product to read "SMCP Diazinon AG 500" rather than "All Pro Diazinon AG500".
- o. Under the heading Fruit and Nut Crops, correct the three references to this product to read "SMCP Diazinon AG 500" rather than "All Pro Diazinon AG500".
- p. Under the PHI table for Fruit crops, in the definition of PHI change the comma after "and harvest" to a period and delete "may vary based on use pattern selected - see specific directions for grapes", since grapes now have only a single PHI.
- q. For the crop Caneberries, in the CROP column add the crop name "Caneberries" and "(CA, OR, WA only)" above the list Blackberries, etc.
- r. For the crop Cherries, delete item "1" from the Notes and renumber the remaining two items accordingly.
- s. Under the heading Vegetable Crops, correct the two references to this product to read "SMCP Diazinon AG 500" rather than "All Pro Diazinon AG500".
- t. In the minimum gallonage table for VEGETABLE CROPS, add an entry for Cabbage with the values of 10, 2, and 5. Also, revise "Casabas" to read "Casaba Melons", and revise "Crenshaws" to read "Crenshaw Melons". The Agency assumes that all of the blank entries will be deleted when you prepare the finished labeling.
- u. Revise the second sentence under the Vegetable minimum gallonage table to read "Do not apply this product in greenhouses."
- v. In the PHI table for VEGETABLE CROPS, add an entry for Cabbage with the value of 21. Also, revise "Casabas" to read "Casaba Melons", and revise "Crenshaws" to read "Crenshaw Melons". The Agency assumes that all of the blank entries will be deleted when you prepare the finished labeling.
- w. Be sure to re-add the previously appearing directions for use on cabbage. Be sure that the Timing/Special Directions for control of Mole Crickets on Cabbage match the rest of the label, i.e., it should read "One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil."
- x. The Vegetable Crops should be presented in alphabetical order, i.e., Beets through Cabbage should appear before Carrots. Also, Sweet Corn should appear before Tomatoes.

y. Under the crop Sweet Corn add the following NOTES:

Notes: 1) To protect bees, do not apply foliarly to corn during the pollen shed period. 2) Allow 7 days after the last application before grazing or cutting for forage. Forage may be fed to beef and dairy cattle and sheep. 3) Corn may be picked 7 days after the last application.

z. Under the heading Field Crops, correct the reference to this product to read "SMCP Diazinon AG 500" rather than "All Pro Diazinon AG500".

aa. Under the field crop Sugar Beets add the following Note:

Note: Sugar beet tops may be fed to beef and dairy cattle.

bb. Delete the entry for Grassland Insects. Your May 2, 2002 FAX indicated that you were deleting this unsupported use.

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

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

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

The Basic Confidential Statement of Formula (CSF) dated November 10, 2001 which identifies a replacement diazinon source Manufacturing Use Product is acceptable and has been added to this product's registration file.

Sincerely,

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

5/18

**RESTRICTED USE PESTICIDE**

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

**SMCP Diazinon AG500**

For Control of Certain Insect on Fruits, Nuts, Vegetables, Field Crops, and Ornamentals.

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

**Active Ingredient:**

Diazinon [0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl)phosphorothioate].....	48.0%
Inert Ingredients*.....	52.0%
<b>Total:</b>	<b>100.0%</b>

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

EPA Reg. No. 769-689  
EPA Est. No. 44616-MO-1

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

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

See Side Panel For Additional Precautionary Statements

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

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

**PERSONAL PROTECTIVE EQUIPMENT:**

- Applicators and other handlers must wear:
  - Long-sleeved shirt and long pants
  - Chemical-Resistant gloves, such as Barrier laminate or Viton
  - Shoes plus socks

Follow manufacturer's instructions for cleaning, maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ACCEPTED  
with COMMENTS  
MAY - 2 2002

**User Safety Recommendations:**

**Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**FIRST AID**

This is an organophosphate insecticide

**IF INHALED:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for treatment advice.

**IF ON SKIN:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

**IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

**HOTLINE NUMBER  
[ORGANOPHOSPHAE]**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-250-9291 for emergency medical treatment information

**NOTE TO PHYSICIAN:** Contains an organophosphate that inhibits cholinesterase. 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.

Distributed By:  
Value Garden Supply, LLC.  
P. O. Box 585  
St. Joseph, MO 64502

769-689

## CHEMIGATION

### APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) - CRANBERRIES ONLY

All Pro 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, mixture is compatible.

Do not apply this product through any type of irrigation system to other crops. For chemigation, apply this product to cranberries only through sprinkler irrigation systems. Do not apply this product to cranberries through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

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

#### Chemigation System Connected to Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the 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 water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Reformulation or repackaging this product is prohibited.

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 you State or Tribe, consult the agency responsible for pesticide regulation.

#### Agricultural Use Requirements

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI).

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

- Coveralls
- Chemical-resistant gloves, such as Barrier Laminate or Viton
- Shoes plus socks

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

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not permit children and pets to go in treated areas until sprays have dried.

**FAILURE TO FOLLOW ALL PRECAUTIONS ON THIS LABEL  
MAY RESULT IN POOR INSECT CONTROL, CROP INJURY,  
OR ILLEGAL RESIDUES.**

### ENVIRONMENTAL HAZARDS

This product is toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. On lawns, if waterfowl (ducks and geese) can be expected in the treated area after treatment (except spot treatment), water lawn with at least ¼ inch of water immediately after spraying this product, however, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment areas

### SPECIAL PRECAUTIONS TO REDUCE RISKS TO BIRDS

Birds feeding or drinking on treated areas may be killed. To reduce risks to birds:

1. Do not treat areas larger than 15,000 sq. ft
2. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20.
3. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds, especially waterfowl
4. Avoid overlapping treated areas.
5. Follow all watering instructions included within the directions for use; however, stop watering before puddling occurs.
6. Do not apply this product to sites occupied by waterfowl or to sites within 75 Ft. of any body of water that may attract waterfowl, such as lakes or ponds
7. If necessary to repeat application, wait a minimum of 3 weeks between applications. Make no more than 4 applications per year.

### PHYSICAL AND 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 in barns or dwellings. Do not use on livestock. 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.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**IMPORTANT:** Read the entire Directions for Use and Notice before using this product.

**DISCLAIMER:** Value Garden Supply, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the specific purposes referred to in the Directions For Use, subject to the inherent risks referred to above. Value Garden Supply makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty. In no case shall Value Garden Supply be liable for consequential, special, or indirect damages resulting from the use, handling or application of this product.

Please Refer To Attached Booklet For Complete Directions For Use.

Manufactured By  
Value Garden Supply, LLC  
P. O Box 585  
St. Joseph, MO 64502

### STORAGE AND DISPOSAL

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

**Pesticide:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If pesticide, spray mixture or rinsate cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container:** Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or incinerate, or burn if allowed by state and local authorities. Stay out of smoke from burning container.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

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**Operating Instructions**

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of All Pro 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 premeasured All Pro Diazinon AG500 to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if All Pro Diazinon AG500 is tank mixed with other pesticides registered for sprinkler chemigation application to cranberries.
4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
5. Engage the chemigation injection or venturi system to add the diazinon to the irrigation lines.
6. Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point.

**Work Safety Rules**

REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS ARE CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING, CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.

When handling All Pro Diazinon AG500 do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See **Practical Treatment** section of this label. When handling this product, wear the personal protective equipment (PPE) as listed under personal protective equipment (PPE) paragraph on this label.

**Fruit and Nut Crops — REI - 24 hours**

All Pro Diazinon AG500 may be applied using ground or aerial application equipment as follows in the table below. The specific amount of product to be used appears under separate directions for use for each crop. This table indicates the minimum amount of water that can be used for the various methods of application. The rate of All Pro Diazinon AG500 for aerial spray or concentrated spray applied to fruit trees by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at 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 pt. of All Pro Diazinon AG500 in 100 gallons of water, this amounts to 3-4 pints of product per acre when applied at 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 individual crops.

Observe stated time intervals between last application and harvest, as well as intervals between applications and total amount of product that can be made per season:

Crop	Minimum Gallons/Acre		Ground	Dilute	Minimum Gallons/Acre Concentrate
	Air				
Almonds*	Yes	20	Yes	100	20
Apricots	Yes	20	Yes	100	20
Blackberries**	Yes	20	Yes	100	20
Boysenberries**	Yes	20	Yes	100	20
Cherries	Yes	20	Yes	100	20
Cranberries	Yes	20	Yes	15	—
Dewberries**	Yes	20	Yes	100	20
Grapes	Yes	20	Yes	100	20
Loganberries**	Yes	20	Yes	100	20
Nectarines	Yes	20	Yes	100	20
Peaches	Yes	20	Yes	100	20
Plums	Yes	20	Yes	100	20
Prunes	Yes	20	Yes	100	20
Raspberries**	Yes	20	Yes	100	20
Strawberries	Yes	20	Yes	100	20
Walnuts*	Yes	20	Yes	100	20

\*CA only    \*\*CA, OR, or WA only.

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, may vary based on use pattern selected - see specific directions for use for grapes.

\*\* Dormant spray only.

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

**Fruit Crops**

Crop	Pest	Rate	Timing/Special Directions
Almonds (CA only)	San Jose Scale, Parlatoria Scale	1-1½ pts. + 2-3 gals. dormant oil or 1-1½ gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 6 pts. of diazinon or 9 gals. of oil per acre.
Apricots	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Olive Scale Crawlers	½ pt. + 1½ gals. of light medium horticultural oil per 100 gals. of water	Apply when scale crawlers are present.
	Apricot Mealybugs	1 pt. per 100 gals. of water	Apply as a cover spray from petal fall to June. Allow 14 days between 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 to wait between the last application and harvest.



**Fruit Crops continued**

Crop	Pest	Rate	Timing/Special Directions
(Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries)	Leafhoppers, Thrips, Aphids, Two-spotted Spider Mites, Raspberry Fruitworms, Raspberry Sawflies	1 qt. per acre	Apply as insects occur. Repeat application after 14 days if necessary. Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum). For Raspberry Fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mites	1-2 qts. per acre	Apply as a dormant spray in the early Spring when canes are still on the ground and buds are closed. Make a second application when buds are well developed but still closed. Apply in a minimum of 100 gals. of water per acre.
	Raspberry Crown Borers (Raspberry Root Borers)	2 qts. per acre	Apply a single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the Spring before buds break.

Notes: (1) Do not apply more than 2 qts. of product per acre per application and no more than 5 qts. of product per acre per season. (2) To avoid illegal residues, allow a minimum, of 7 days between the last application and harvest.

Cherries	Eyepotted Bud Moths, Fruit Tree Leafrollers	1 pt. in 100 gals. of water	Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.
	Leafhoppers	1 pt. in 100 gals of water	Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.
	Cherry Fruitflies	½-1 pt. in 100 gals. of water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals.
	Black Cherry Aphids	1 pt. in 100 gals. of water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.
	San Jose Scale Crawlers	1 pt. in 100 gals. of water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mites	½-1 pt. in 100 gals. of water	Apply to trees as a single supplemental spray after harvest.

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

Cranberries	Blackheaded Fireworms ( <i>Rhopobota naevana</i> )	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 to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted.
	Cranberry Fruitworms	2-3 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.	Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management adviser. Repeat application every 14 days, as needed. A maximum of 4 applications per season is permitted for the 3 qt. rate. A maximum of 6 applications is permitted for the 2 qt. rate.

Note: (1) Do not apply more than 12 qts. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest. (3) This product may be applied to cranberries through sprinkler irrigation. Refer to the section CHEMIGATION for specific chemigation directions for use. (4) Do not use water from irrigated or flooded cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA approved diazinon labels.

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

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

**Fruit Crops continued**

Crop	Pest	Rate	Timing/Special Directions
Nectarines	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.
	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.

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

Peaches	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	1½-2 pts. in 100 gals. of water	Apply post-harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation 2 applications (7 days apart) may be needed. Do not apply before fruit is harvested.

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

Plums	Brown Mites (Clover Mites), European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	½-1 pt. in 100 gals. of water	

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

Prunes	Brown Mites (Clover Mites), European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	½-1 pt. in 100 gals. of water	

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

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**Fruit Crops continued**

Crop	Pest	Rate	Timing/Special Directions
Strawberries	Aphids, Two-spotted Spider Mites	1 qt. 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.
	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.
	Mole Crickets	1 qt. per acre	Broadcast in sufficient water to obtain even coverage when insects are present. Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
	Strawberry Leafrollers	¾-1 pt. in 100 gals. of water	Apply 200 gals. of spray per acre when blossoms show color. Do not apply within 5 days of harvest or illegal residues may occur.

**Notes:** (1) Do not apply more than 1 qt. of product per acre per application and no more than 4 qts. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 5 days between the last application and harvest.

Walnuts (CA only)	Aphids, Spider Mites	1 qt. per acre	Apply as a foliar spray. Repeat application in 14 days if necessary. Make ground applications in a minimum of 100 gals. of water per acre.
	Codling Moths, Scale Crawlers, Walnut Caterpillars	3 qts. per acre	

**Notes:** (1) Do not apply more than 3 qts. of product per acre per application. (2) Do not apply more than 9 qts. of product per acre per season. (3) To avoid illegal residues, allow a minimum of 45 days between the last application and harvest and do not apply after husks open.

**Vegetable Crops**

**REI - 24 hours**

For foliar or soil applications, All Pro Diazinon AG500 should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. All Pro diazinon AG500 may be applied using ground or aerial application equipment as specified in the following table. This table indicates the minimum amount of water that can be used for the various methods of application. The specific amount of product to be used appears under the separate directions for use for each crop.

Crop	Ground Application		Aerial Application Minimum Gals. per Acre
	Minimum Gals/Acre	Minimum Gals. per 1,000 Sq. Ft.	
Beets, Red (Table)	10	2	5
Broccoli	10	2	5
Brussels Sprouts	10	2	5
Cantaloupes	5	1	5
Carrots	10	2	5
Casabas	5	1	5
Cauliflower	10	2	5
Chinese Broccoli	10	2	5
Chinese Cabbage	10	2	5
Chinese Mustard	10	2	5
Chinese Radish (CA, FL only)	10	2	5
Collards	10	2	5
Crenshaws	5	1	5
Endive (Escarole)	10	2	5
Ginseng	10	2	5
Honeydew Melons	5	1	5
Kale	10	2	5

Crop	Ground Application		Aerial Application Minimum Gals. per Acre
	Minimum Gals/Acre	Minimum Gals. per 1,000 Sq. Ft.	
Lettuce, Head	10	2	5
Lettuce, Leaf	10	2	5
Muskmelons	5	1	5
Mustard	10	2	5
Onions (Bulb and Green)	10	2	5
Persian Melons	5	1	5
Radishes	10	2	5
Spinach	10	2	5
Sweet Corn	20	4	5
Tomatoes	10	2	5
Watermelons	5	1	5

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

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**Vegetable Crops**

**Pre-Harvest Intervals (PHI\*) for Foliar Applications**

Crop	PHI* (Days)
Beets, Red (Table)	14
Broccoli	7
Brussels Sprouts	7
Cantaloupes	3
Carrots	14
Casabas	3
Cauliflower	7
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Mustard	10
Chinese Radish	10
Collards	10
Crenshaws	3
Endive (Escarole)	14
Ginseng	30
Honeydew Melons	3

**Pre-Harvest Intervals (PHI\*) for Foliar Applications**

Crop	PHI* (Days)
Kale	10
Lettuce	14
Muskmelons	3
Mustard	10
Onions (Bulb and Green)	14
Persian Melons	3
Radishes	14
Spinach	14
Sweet Corn	7
Tomatoes	1
Watermelons	3

\*PHI = Pre-Harvest Interval or the number of days to wait 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 corn during the pollen shed period.

**Vegetable Crops continued**

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	One to two days before planting, broadcast 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 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur.
Cauliflower	Root Maggots	2-3 qts. per acre	Broadcast just before planting 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. <b>Note:</b> 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	One to two days before planting, broadcast 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. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

**Vegetable Crops continued**

Crop	Pest	Rate	Timing/Special Directions
Beets, Red (Table)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Dipterous Leafminers	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Broccoli	Root Maggots	2-3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. per 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 cup (4 to 8 oz.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. <b>Note:</b> 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	One to two days before planting, broadcast 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	½-1 pt per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Brussels Sprouts	Root Maggots	2-3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 cup (4 to 8 oz.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. <b>Note:</b> 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	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, 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.

**Vegetable Crops continued**

Crop	Pest	Rate	Timing/Special Directions
Chinese Broccoli	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Chinese Mustard (Gai Choy)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Chinese Radish (Japanese Radish or Daikon) (FL and CA only)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1 pt. per acre	Mix in a minimum of 100 gals. of water per acre and apply as a foliar spray as pests occur. Repeat application as necessary, every 14 days. Do not make more than 3 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Collards	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	One to two days before planting, broadcast 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	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.

**Vegetable Crops continued**

Crop	Pest	Rate	Timing/Special Directions
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	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Ginseng	Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice	¾-1 pt. per acre	Spray when insects first appear. For heavy insect infestations, use 1 pt. per acre. Apply by ground equipment using 10 to 100 gals. of water per acre. Do not apply more than one application per growing season. Do not apply during flowering of three or four year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.
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	One to two days before planting, broadcast 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	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.
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	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) and Watermelons	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	½-1½ 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. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

**Vegetable Crops continued**

Crop	Pest	Rate	Timing/Special Directions
Mustard	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	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworms	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, 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. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
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. <b>Note:</b> Diazinon will not control organophosphate-resistant onion maggots.
	Onion Thrips	1 pt. per acre	Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
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	One to two days before planting, broadcast 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, Flea Beetles, Dipterous Leafminers	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or illegal residues may occur. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Spinach	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.



Crop	Pest	Rate	Timing/Special Directions
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	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½ pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	¾-1 pt. per acre	Do not apply within one day of harvest or illegal residues may occur. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
	Vinegar Flies ( <i>Drosophila</i> spp.)	½-1½ pts. per acre	
Sweet Corn	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	See Corn Maggots	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast before planting and immediately incorporate into the top 4-8 inches of soil.
	Corn Earworms	1-1¼ qts. per acre	Apply when silks first appear. Repeat application every 7 days if necessary. Do not make more than 5 applications per season.
	Corn Rootworm (Adults)	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Corn Leaf Aphids	1-2 pts. per acre	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Grasshoppers, Spider Mites, Flea Beetles	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Sap Beetles	2-2½ pts. per acre	Consult local agricultural authorities for proper timing of sprays. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

**Field Crops**

**REI - 24 hours**

Soil and foliar applications of All Pro Diazinon AG500 should always be applied as a spray in sufficient water to ensure thorough coverage. For foliar applications, observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season.

**Pre-Harvest Intervals (PHI\*) for Foliar Applications**

Crop	PHI* (Days)
Hops	14
Sugar Beets	14

\*PHI = Pre-Harvest Interval or the number of days to wait 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 application, as necessary, every 14 days. Do not make more than 4 applications per season. Do not apply within 14 days of harvest.
Sugar Beets	Wireworms	3-4 qts. per acre	Broadcast just before planting. Incorporate into soil 4-6 inches. Do not apply more than 4 qts. of this product to the soil, per season.
	Beet Leafhoppers, Dipterous Leafminers, Aphids	¾-1 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. <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
	Grasshoppers	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest.

**Grassland Insects**

**Ditch Banks, Roadsides, Wasteland, Noncrop Areas**

Grasshoppers: Spray ¾-1 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 state. Thorough coverage of the foliage is essential.

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

**Insect Control on Ornamentals Grown Outdoors in Nurseries**

REI – 12 hours

To control certain insects on Arborvitae, Azalea, Birch, Boxwood, Camelia, Carnation, Chrysanthemum, Crab Apple, Dogwood, Douglas Fir, Elm, Euonymus, Gladioli, Hawthorn, Holly, Honey Locust, Honeysuckle, Juniper, Lilac, Lilly, Locust, Maple, Marigold, Oak, Pansy, Petunia, Pine, Ornamental Plum, Poplar, Rhododendron, Rose, Scotch Pine, Spirea, Spruce, Sycamore, Wax Plant (Hoya), Willow, Yellowwood and Yew. Apply the recommended rates indicated below. Spray when listed pests first appear. Try to spray underside of leaves and penetrate dense foliage. Repeat as necessary.

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

**Amount of SMCP Diazinon  
AG500 to Use**

Insects	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 (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mites, Juniper Webworms, Whiteflies	½ fl. oz.*	1 pt.**
Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars	1½ fl. oz.*	3 pts. **

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

Mimosa Webworms: Mix ½ fl. oz. in 3 gals. of water (or 1 pint 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.