



FM 13 1169-689 10416
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAY 06 1994

Stacy Schmidt
H. R. MCLANE, INC.
AGENT FOR: SURECO, INC.
7210 RED ROAD - SUITE 206
MIAMI, FL 33143

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 03/10/94 in Response to PR Notice 93-7
EPA Reg. No. 769-689
SMPC DIAZINON AG500

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

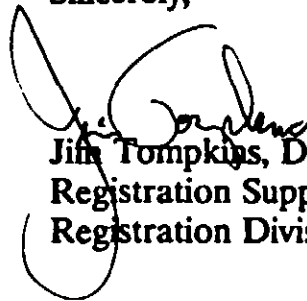
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

H. R. MCLANE, INC.
769-689 03/10/94
SMPC DIAZINON AG500
Original Submission

You have incorrect wording in the second-to-last sentence in the first paragraph in the Agricultural Use Requirements box on your proposed label. The sentence must be as follows: "It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval."

You must retain from your original label any statements about entry restrictions that apply to the non-agricultural uses on your product. Create a Non-Agricultural Use Requirements box in the Directions For Use section of your labeling and add the statements: "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." Then add to the box the statements that are in brackets [] on your original label. Please refer to the instructions for creating a Non-Agricultural Use Requirements box starting on page 45 of Supplement Three to PR Notice 93-7 (Main Labeling Guidance). Do not permit children and pets to go in treated areas until sprays have dried.

RESTRICTED USE PESTICIDE
Due to Avian and Aquatic Toxicity

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

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



DIAZINON AG500

For Control of Certain Insects on Fruits, Nuts, Vegetables, Field Crops, and Ornamentals
4 lbs. Diazinon per Gallon

ACTIVE INGREDIENTS:

Diazinon [O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate] ... 48%

INERT INGREDIENTS: ... 52%

TOTAL ... 100%

*contains xylene range aromatic solvent.

KEEP OUT OF REACH OF CHILDREN

SPECIMEN

STATEMENT OF EMERGENCY TREATMENT

WARNING: Call a physician or Poison Control Center immediately. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia. Do not give anything by mouth if person is unconscious or convulsing.

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on skin, wash promptly with soap and water. Rinse thoroughly. Get medical attention.

If in eyes, rinse eyes with plenty of water. Call a physician if irritation persists.

Note to Physician: This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

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

E.P.A. Reg. No. 788-899

E.P.A. Est. No. 788-GA-1

NET CONTENTS: ONE GALLON

Manufactured by
SURECO, INC.
FORT VALLEY, GA 31030

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

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

Complete directions for use of DIAZINON AG500 for insect control on these crops listed below are contained in a booklet attached to this container.

Also included are directions for use of DIAZINON AG500 for Ornamental Insect Control and Lawn Insect Control.

- | | | | | | |
|------------------|-------------------|-----------------|-------------|-----------|----------------|
| Almonds | Celery | Greening | Mustard | Pineapple | Strawberries |
| Apricots | Cherries | Grease | Peppercorns | Plums | Sugar Beets |
| Beans | Chinese Broccoli | Herb | Turnips | Red Beans | Sweet Corn |
| Beets | Chinese Cabbage | Yale | Ornamentals | Potatoes | Sweet Potatoes |
| Broccoli | Chinese Mustards | Yale | Onion | Brussels | Sweet Guard |
| Brussels Sprouts | Chinese Radishes | Yale | Onion | Radishes | Tomatoes |
| Cabbage | Collard | Yale | Peas | Soy Beans | Turnip |
| Caneberries | Cranberries | Yale | Peas | Squash | Turnip Tops |
| Carrots | Cucumber | MUSHROOMS | Peppers | Squash | Walnuts |
| Cauliflower | Endive (Escarole) | Mushroom Houses | | | |

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 rinseate is a violation of Federal law. If pesticide, spray mixture or rinseate cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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

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

IMPORTANT: Read these entire Directions and Conditions of Sale before using this product.

DISCLAIMER: SureCo 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. SureCo makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty in no case shall SureCo be liable for consequential, special, or indirect damages resulting from the use or handling or application of this product.

PRECAUTIONARY STATEMENTS Hazards To Humans and Domestic Animals CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye injury. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Avoid contamination of food and feed. Food utensils such as 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: Some materials that are chemical-resistant to this product are listed below. If you wear more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

- Applicators and other handlers must wear:
 - Long-sleeved shirt and long pants
 - Chemical-resistant gloves, such as Barner Laminite or Vaon
 - Shoes plus socks

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

LABEL

ENVIRONMENTAL HAZARDS

This product is 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 lands in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted total rates. Note: Some states recommend significantly increase potential hazards to birds and waterfowl based on timing of spray.

If waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except seed treatment), water landfills with at least 1/2 inch of water immediately after spraying the product. However, stop watering before puddling occurs. Keep out of leafy streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present, or to wetland areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Slowing 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 essential 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 AND CHEMICAL HAZARDS

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

Lot No.:



94-0038-S

LABEL

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAY 06 1994

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

769-689

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20716

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

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

DIAZINON AG500

For control of certain insects on fruits, nuts, vegetables, field crops, lawns and ornamentals.
DIAZINON AG500 contains 4 lbs. diazinon per gallon.

ACTIVE INGREDIENTS:	
Diazinon (0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate)	48%
INERT INGREDIENTS:	52%
TOTAL	100%

*contains xylene range aromatic solvent

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

SEE ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE INSIDE BOOKLET

IMPORTANT: Read the entire Directions for Use and Conditions of Sale and Warranty before using this product.

EPA Reg. No. 769-689

EPA Est. No. 700-GA-1

SURECO
FORT VALLEY, GA 31030

KEEP OUT OF REACH OF CHILDREN LABEL

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STATEMENT OF PRACTICAL TREATMENT

This is an organophosphate insecticide.

If swallowed: Call a physician or Poison Control Center immediately. **DO NOT INDUCE VOMITING.** Vomiting may cause aspiration pneumonia. Do not give anything by mouth if person is unconscious or convulsing.

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on skin, wash promptly with soap and water. Rinse thoroughly. Get medical attention.

If in eyes, rinse eyes with plenty of water. Call a physician if irritation persists.

Note to Physician: This product is an organophosphate insecticide. If symptoms of cholinergic inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

**PRECAUTIONARY STATEMENTS
Hazards To Humans and Domestic Animals
CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye injury. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Avoid contamination of food and feed. Food utensils such as 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 fish ponds.

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:

- 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.

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 change into 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.

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.

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 residue is a violation of federal law. If pesticide, spray mixture or residue 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.

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

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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. If waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), water lawn/area with at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources.

Do not contaminate water by cleaning of equipment or disposal of 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.

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

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

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

- Coveralls
- Chemical-resistant gloves, such as Barrier Laminate 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.

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

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, 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.

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 premeasured Diazinon AG500 to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if 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 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.

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 Diazinon AG500 for aerial spray or concentrated spray applied to fruit trees by ground equipment is based

Crop	Air	Minimum Gallons/Acre	Minimum Gallons/Acre	
			Ground	Dilute Concentrate
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.

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 Diazinon AG500 in 100 gallons of water, this amounts to 3-4 pints of product per acre when applied in dilute ground spray volumes. of 300-400 gallons of water per acre, 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	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.

Almonds (CA Only)

San Jose Scale, Parlatoria Scale: Mix 1-1½ pints +2-3 gallons dormant oil or 1-1½ gallons superior type oil in 100 gallons of water and apply as a dormant spray. Do not apply more than 6 pints of diazinon or 9 gallons of oil per acre.

Apricots

Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 pint in 100 gallons of water. Apply as infestations occur. Repeat application after 14 days if necessary.

Olive Scale Crawlers: Mix ½ pint + 1½ gallons of light medium horticultural oil per 100 gallons of water. Apply when scale crawlers are present.

Apricot Mealybugs: Mix 1 pint per 100 gallons 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 pints of product per acre per application and no more than 12 pints of product per acre per season 2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

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Caneberries CA, OR and WA only

(Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries)

Leafhoppers, Thrips, Aphids, Twospotted Spider Mites, Raspberry Sawflies, Raspberry Fruitworms: Mix 1 quart per acre. Apply as insects occur. Repeat applications 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 gallons per acre. (200 gallons per acre maximum)

For raspberry fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.

Dryberry Mites: Mix 1-2 quarts 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 gallons of water per acre. Do not apply within 7 days of harvest or illegal residues may occur.

Raspberry Crown Borers, (Raspberry Root Borers): Mix 2 quarts per acre. Apply a single application in a minimum of 100 gallons 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: Mix 1 pint in 100 gallons of water. Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.

Leafhoppers: Mix 1 pint in 100 gallons of water. Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.

Grapes

Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafrollers, Omnivorous leafrollers, Aphids, Spider Mites: Mix 1-2 pints per acre in a minimum of 100 gallons of water. Apply as pest occurs as a thorough cover spray. Repeat application after 7 days if necessary.

Drosophila spp.: Mix 6 fluid ounces per acre in a minimum of 100 gallons of water (300 gallons 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 pints of product per acre per application and no more than 10 pints per acre per season. 2) To avoid illegal residues, allow 28 days between the last application and harvest.

Nectarines

Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers: Mix 1 pint in 100 gallons of water. Apply as infestations occur. Repeat application after 14 days if necessary.

Oriental Fruitmoths: Mix 1 pint in 100 gallons 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 pints of product per acre per application and no more than 12 pints per acre per season. 2) Allow a minimum of 21 days between the last application and harvest.

Cherry Fruitflies: Mix 1/2-1 pint in 100 gallons of water. Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals.

Black Cherry Aphids: Mix 1 pint in 100 gallons of water. Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.

San Jose Scale Crawlers: Mix 1 pint in 100 gallons of water. Apply during the pre-pink stage or when crawlers first appear.

Cherry Rust Mites: Mix 1/2-1 pint in 100 gallons 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 pints of product per acre per application and no more than 12 pints of product per acre per season. 3) Allow a minimum of 21 days between the last application and harvest.

Cranberries

Blackheaded Fireworms (*Bhopala nemoralis*): Mix 2 quarts in a minimum of 15 gallons of water per acre for ground application and 400 gallons of water per acre for chemigation. Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 8 applications per season is permitted. Do not apply within 7 days of harvest or illegal residues may occur.

Cranberry Fruitworms: Mix 3 quarts in a minimum of 15 gallons of water per acre for ground application and 400 gallons of water per acre for chemigation. Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 4 applications per season is permitted. Do not apply within 7 days of harvest or illegal residues may occur.

Note: This product may be applied to cranberries through sprinkler irrigation. Refer to the section "Chemigation" for specific chemigation directions for use.

Peaches

Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 pint in 100 gallons of water. Apply as infestations occur. Repeat application after 14 days if necessary.

Oriental Fruit Moths: Mix 1 pint in 100 gallons 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: Mix 1 pint in 100 gallons of water. Apply as insects occur in May and June. Allow 7 days between application.

Leafhoppers: Mix 1 pint in 100 gallons 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: Mix 1 1/2-2 pints in 100 gallons 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 pints of product per acre per application and no more than 12 pints of product per acre per season. 2) Allow a minimum of 21 days between the last application and harvest.

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Plums

Brown Mites (Clover Mites), European Red Mites: Mix 1 pint in 100 gallons of water. Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids: Mix 1/2-1 pint in 100 gallons of water. Apply as needed every 7 days.

Notes: 1) Do not apply more than 4 pints of product per acre per application and no more than 12 pints 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: Mix 1 pint in 100 gallons of water. Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids: Mix 1/2-1 pint in 100 gallons of water. Apply as needed every 7 days.

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

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Strawberries

Aphids, Twospotted Spider Mites: Mix 1 pint in 100 gallons of water per acre. Apply as pests occur. Repeat application if necessary every 7 days, but do not make more than 3 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.

Cyclamen Mites: Mix 1 quart in 100 gallons of water per acre. Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat applications after 7 days if necessary. Do not apply within 5 days of harvest or illegal residues may occur. Application may be made to plants after harvest. Do not make more than 3 foliar applications per season.

Mole Crickets: Mix 1 quart 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: Mix 1/4-1 pint in 100 gallons of water. Apply 200 gallons 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: Mix 1 quart per acre. Codling Moths, Scale Crawlers, Walnut Caterpillars: Mix 3 quarts per acre. Apply as a foliar spray. Repeat application in 14 days if necessary. Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open or illegal residues may occur. Make ground applications in a minimum of 100 gallons of water per acre.

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 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 Appl.	Min. Gallons /Acre	OR	Min. Gals. /1,000 Sq. Ft.	Air Appl.	Min. Gallons /Acre
Beans, Lima, Snap and Pea (succulent only)	Yes	10		2	Yes	5
Beets, Red (Table)	Yes	10		2	Yes	5
Broccoli	Yes	10		2	Yes	5
Brussels Sprouts	Yes	10		2	Yes	5
Cabbage	Yes	10		2	Yes	5
Cantaloupes	Yes	5		1	Yes	5
Carrots	Yes	10		2	Yes	5
Casabas	Yes	5		1	Yes	5
Cauliflower	Yes	10		2	Yes	5
Celery	Yes	10		2	Yes	5
Chinese Broccoli	Yes	10		2	Yes	5
Chinese Cabbage	Yes	10		2	Yes	5
Chinese Mustard	Yes	10		2	Yes	5
Chinese Radish (FL. CA only)	Yes	10		2	Yes	5
Collards	Yes	10		2	Yes	5
Crenshaws	Yes	5		1	Yes	5
Cucumbers	Yes	5		1	Yes	5
Endive (Escarole)	Yes	10		2	Yes	5
Ginseng	Yes	10		2	Yes	5

Crop	Ground Appl.	Min. Gallons /Acre	OR	Min. Gals. /1,000 Sq. Ft.	Air Appl.	Min. Gallons /Acre
Honeydew Melons	Yes	5		1	Yes	5
Kale	Yes	10		2	Yes	5
Lettuce, Head	Yes	10		2	Yes	5
Muskmelons	Yes	5		1	Yes	5
Mustard	Yes	10		2	Yes	5
Onions, Bulb and Green	Yes	10		2	Yes	5
Parsley	Yes	10		2	Yes	5
Parsnips	Yes	10		2	Yes	5
Peas (succulent only)	Yes	10		2	Yes	5
Peppers	Yes	10		2	Yes	5
Persian Melons	Yes	5		1	Yes	5
Potatoes (Irish)*	Yes	10		2	Yes	5
Radishes	Yes	10		2	Yes	5
Spinach	Yes	10		2	Yes	5
Squash, Summer	Yes	5		1	Yes	5
Squash, Winter	Yes	5		1	Yes	5
Sweet Corn	Yes	20		4	Yes	5
Sweet Potatoes	Yes	10		2	Yes	5
Swiss Chard	Yes	10		2	Yes	5
Tomatoes	Yes	10		2	Yes	5
Turnips	Yes	10		2	Yes	5
Watermelons	Yes	5		1	Yes	5

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

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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, Snap, Pole)	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 Mustard	10
Chinese Radish	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	14
Ginseng	30
Honeydew Melons	3
Kale	10
Lettuce	14
Muskmelons	3
Mustard	10
Onions (Green and Bulb)	14
Parsnips	14
Peas	7

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Crop	PHI* (Days)
Peppers	5
Persian Melons	3
Potatoes (Insh)	35
Radish	14
Spinach	14
Squash, Summer	7
Squash, Winter	3
Sweet Corn	7
Swiss Chard	14
Tomatoes	1
Turnip, Roots and Tops	14
Watermelons	3

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

Notes: 1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see TIMING/SPECIAL DIRECTIONS) using a rotary hoe, cultiva-tion 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.

Beans (Pole Snap or Lima - succulent only)

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Wireworms: Mix 3-4 quarts 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: Mix 1-1 1/2 pints per acre. Cucumber Beetles: Mix 1/2 pint per acre. Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.

Do not apply within 7 days of harvest or illegal residues may occur

Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

Make cucumber beetle application in 100 gallons of water per acre.

NOTES: 1) Diazinon will not control organophosphate-resistant leafminers. 2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.

Beans, Lima (succulent only)

Leafhoppers, Spider Mites: Mix 1 pint per acre. Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.

Do not apply within 7 days of harvest or illegal residues may occur.

Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

NOTE: To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom

Beets, Red (Table)

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil (See Soil Incorporation Note.)

Mole Crickets: Mix 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil

Dipterous Leafminers: Mix 1/2-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 14 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers

Broccoli

Root Maggots: Mix 2-3 quarts 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.

Mix 4-8 ounces per 50 gallons of water. In transplant water as a drench application when 200-300 gallons of water are used per acre. Apply 1/2-1 cup (4 to 8 ounces) 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: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers: Mix 1/2-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 7 days of harvest or illegal residues may occur

Note: Diazinon will not control organophosphate-resistant leafminers

Brussels Sprouts

Root Maggots: Mix 2-3 quarts 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.

Mix 4-8 ounces in 50 gallons of water. In transplant water as a drench application when 200-300 gallons of water are used per acre. Apply 1/2-1 cup (4 to 8 ounces) 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: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Diamondback Moths, Imported Cabbageworms: Mix 1/2-1 pint 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.

Cabbage

Root Maggots: Mix 2-3 quarts 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.

Mix 4-8 ounces in 50 gallons of water. In transplant water as a drench application when 200-300 gallons of water are used per acre. Apply 1/2-1 cup (4 to 8 ounces) per plant by hand or by tractor mounted sprayer equipped

Cauliflower

Root Maggots: Mix 2-3 quarts 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.

Mix 4-8 ounces in 50 gallons of water. In transplant water as a drench application when 200-300 gallons of water are used per acre. Apply 1/2-1 cup (4 to 8 ounces) 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: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers: Mix 1/2-1 pint 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

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: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers: Mix 1/2-1 pint 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.

Carrots

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids: Mix 1 pint 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.

Chinese Broccoli

Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers: Mix 1/2-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 10 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

Chinese Cabbage (Bok Choy and Napa)

Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers: Mix 1/2-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 10 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

Chinese Mustard (Gal Choy)

Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers: Mix 1/2-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

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Do not apply within 10 days of harvest or illegal residues may occur.
Note: Diazinon will not control organophosphate-resistant leafminers.

Chinese Radish (Japanese Radish or Daikon) (FL and CA only)

Aphids, Diamondback moths, Imported Cabbageworms, Dipterous Leafminers: Use 1 pint per acre. Mix in a minimum of 100 gallons of water per acre and apply as a foliar spray as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 3 applications per season.

Do not apply within 10 days of harvest or illegal residues may occur.
Note: Diazinon will not control organophosphate-resistant leafminers.

Collards

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts 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: Mix ½-1 pint 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: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Kale

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts 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: Mix ½-1 pint 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: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Dipterous Leafminers: Mix ½-1 pint 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.

Wireworms: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms: Mix 1 pint 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.

Endive (Escarole)

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Dipterous Leafminers: Mix ½-1 pint 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: Mix ¾-1 pint per acre. Spray when insects first appear. For heavy insect infestations, use 1 pint per acre. Apply by ground equipment using 10 to 100 gallons 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.

Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and Hybrids of these and Watermelons):

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Wireworms: Mix 3-4 quarts 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: Mix ½-1½ pints per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 3 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

Mustard

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers: Mix ½-1 pint per acre. Apply as insects occur. Repeat application, as necessary every 7 days. Do not make more than 5 applications per season.

Do not apply within 10 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

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Onions (Green & Bulb)

Onion Maggots: Mix 2-4 quarts per acre. Broadcast just before planting and mix into the top 3-4 inches of soil.

Note: Diazinon will not control organophosphate-resistant onion maggots.

Onion Thrips: Mix 1 pint 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into top 4-8 inches of soil.

Paralely

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Wireworms: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Paranips

Aphids, Flea Beetles, Dipterous Leafminers: Mix ½-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 14 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

Peas (succulent only)

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into soil. (See Soil Incorporation Note.)

Wireworms: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Wireworms: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Southern Potato Wireworms (Southeastern U.S.): Mix 2-4 quarts per acre. For potatoes grown on mineral soils in the Southeast, apply before planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.

Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminer: ½-¾ pint 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 15 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

Banded Cucumber Beetle, Leafhoppers, Southern Armyworms: Mix ¾-1 pint 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 35 days of harvest or illegal residues may occur.

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

Radishes

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Flea Beetles, Dipterous Leafminers: Mix ½-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season.

Aphids, Dipterous Leafminers: Mix ¾-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.

To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

Vines and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 7 days following treatment if forage is to be cut for hay.

Notes: 1) Diazinon will not control organophosphate-resistant leafminers. 2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.

Peppers

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Serpentine Leafminers: Mix ½-1 pint per acre. Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 5 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

Potatoes

Cutworms (Surface & Subterranean): Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Do not apply within 14 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

Spinach

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Wireworms: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Dipterous leafminers: Mix ½-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 14 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

Squash, Summer

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Wireworms: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites: Mix ½-1½ pints 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.

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Squash, Winter

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Wireworms: Mix 3-4 quarts p. acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites: Mix ½-1½ pints 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: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Seed Corn Maggots: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 2 inches of soil.

Wireworms: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Corn Earworms: Mix 1-1½ quarts per acre. Apply when silks first appear. Repeat application every 7 days if necessary. Do not make more than 5 applications per season. Corn may be picked immediately following last application.

Corn Rootworm (Adults): ½-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Wireworms: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Bugs: Mix ½-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 14 days of harvest or illegal residues may occur.

Tomatoes

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Dipterous leafminers: Mix ½ pint per acre.

Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms: Mix ¾-1 pint per acre.

Vinegar Flies (Drosophila Spp.): Mix ½-1½ pints per acre. Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within one day of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

Turnips and Turnip Tops

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

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Corn Leaf Aphids: Mix 1-2 pints 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: Mix 1 pint per acre. Apply as insects occur. Repeat, as necessary, every 7 days. Do not make more than 5 applications per season.

Sap beetles: Mix 2-2½ pints 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.

Note: 1) To protect bees, do not apply foliage 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.

Sweet Potatoes

Wireworms, Flea Beetles: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Swiss Chard

Cutworms: Mix 2-4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Mole Crickets: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Aphids, Flea Beetles, Dipterous Leafminers: Mix ½-1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 14 days of harvest or illegal residues may occur.

Note: Diazinon will not control organophosphate-resistant leafminers.

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Soil and foliar applications of 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 Interval (PHI) for Foliar Applications:

Crop	PHI (Days)
Hops	14
Sugar Beets	14

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

Hops

Aphids, Spider Mites: Mix 1 quart 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: Mix 3-4 quarts per acre. Broadcast just before planting. Incorporate into soil 4-6 inches.

Do not apply more than 4 quarts of this product to the soil per season.

Beet Leafhoppers, Dipterous Leafminers, Aphids: Mix $\frac{3}{4}$ -1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Do not apply within 14 days of harvest.

Note: Diazinon will not control organophosphate-resistant leafminers

Grasshoppers: Mix 1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season

Do not apply within 14 days of harvest.

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

Grassland Insects

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

Grasshoppers: Spray $\frac{3}{4}$ -1 pint per acre in water (minimum of 1 gallon of water per acre) for aerial applications or a minimum of 5 gallons of water per acre for ground applications (PHI) (a minimum of 1 gallon of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential.

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

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

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 Leafhoppers, Prvot Mites, Scale Crawlers (Cottonyushion), Leafminer, Pine Needle, San Jose, Soft Scale), Thrips, Twospotted Spider Mites, Juniper Webworms, Whiteflies: Mix $\frac{1}{2}$ fluid ounce (1 tablespoon) per 3 gallons of water. Mix 1 pint (16 fluid ounces) per 100 gallons of water.

Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars: Mix $1\frac{1}{2}$ fluid ounces (3 tablespoons) per 3 gallons of water. Mix 3 pints (48 fluid ounces) per 100 gallons of water.

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

Mimosa Webworms: Mix $\frac{1}{2}$ fluid ounce (1 tablespoon) in 3 gallons of water or 1 pint (16 fluid ounces) in 100 gallons of water and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4-5 week intervals

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 of sprays. If waterfowl, i.e. ducks, geese can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least $\frac{1}{4}$ inch water immediately after application, however stop watering before puddling occurs.

To control pests listed below apply recommended rates. (Rate/1000 sq. ft.)

Lawn Chinch Bugs: Mix 2-3 fluid ounces per 3 gallons of water. Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.

Ants, Armyworms, Bermuda Grass Mites, Clover Mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pill Bugs): Mix 2-3 fluid ounces per 3 gallons of water. Spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk when wasps are not active.

For frit flies, mow grass and water well before treatment but delay application until grass is dry

For billbug control apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect

Brown Dog Ticks, Chiggers, Fleas: Mix 3 fluid ounces per 3 gallons of water

Note: Do not apply to animals

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For brown dog ticks, spray grass and under shrubbery, particularly near house.

Millipedes: Mix 3 fluid ounces per 3 gallons of water.

Rhodesgrass Scales: Mix 3 fluid ounces per 3 gallons of water. Apply when crawlers first emerge.

White Grubs (such as Japanese Beetle Larvae, European Chafer, Southern Chafer): Mix 3 fluid ounces per 3 gallons of water. For grub control make application any time between late July and early October.

Hyperodes Weevil: Mix 3 fluid ounces per 3 gallons of water. Treat problem areas in mid-April and again in mid-May.

Nuisance Pests in Outside Areas

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pill Bugs), Spiders, Springtails (Collembola): Mix 3 fluid ounces in 3 gallons of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls and entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide.

To prevent entry into houses spray a five foot band of soil around the house next to the foundation and spray the foundation of the house to a height of 2-3 feet. Repeat application as necessary. Do not apply to animals. Do not treat plants (other than tree trunks) at this nuisance pest rate.

SPECIMEN LABEL