

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

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

Statement of Practical Treatment

This product is an organophosphate.

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

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

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

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

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

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 F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- a. long-sleeved shirt and long pants
- b. chemical resistant gloves such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, or Viton \geq 14 mils.
- c. shoes plus socks

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Engineering Controls Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Environmental Hazards

This product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping of sprays. If waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), water lawn 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.

terrestrial uses,

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.

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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.

Chemigation

Refer to supplemental labeling in attached booklet for chemigation use directions for cranberries. Do not apply this product to cranberries through any type of irrigation system unless the specific directions for chemigation are followed.

Do not apply this product to any other crop or site through any type of irrigation system.

D·z·n® trademark of Ciba-Geigy Corporation

Ciba Plant Protection
Ciba-Geigy Corporation

Greensboro, NC 27419

EPA Reg. No. 100-461

EPA Est. 100-AL-1

CGA 1L128G

[GANNONC.LABELD]DZNAG5WP - 6/9/93

Revised	4/24/91 - per EPA letter of 4/10/91 - minor editorial <u>changes</u>
Revised	<u>8/17/92 - see booklet</u>
Revised	9/18/92 - see booklet
Revised	6/8/93 - see booklet



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DEC 22 1993

Carolyn B. Bussey
CIBA-GEIGY CORP.
P.O. Box 18300
Greensboro, NC 27419

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 06/15/93 in Response to PR Notice 93-7
EPA Reg. No. 100-461
D.Z.N. DIAZINON AG 500

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

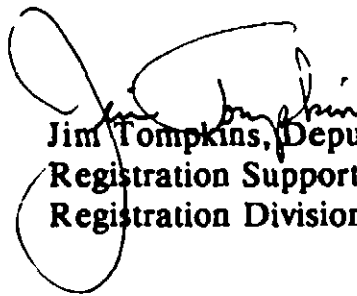
Submit the final printed labeling via the U.S. Postal Service to:

**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

CIBA-GEIGY CORP.
D.Z.N. DIAZINON AG 500
100-461 6/15/93

Original Submission

Add the following statement: "Follow manufacturer's instructions for cleaning/maintaining PPE." If no such....." Refer to page 20 of the Main Labeling Guidance for placement.

Under the User Safety Recommendation add "Remove clothing immediately if pesticide get....."

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

NEW DRAFT (WPS)

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.

(Booklet for 2 1/2 Gallon Container)

D·z·n® diazinon AG500
Insecticide

For control of certain insects on
fruits, nuts, vegetables, field
crops, lawns and ornamentals.

This product must not be used on golf
courses and sod farms.

ACCEPTED
with COMMENTS
In EPA Letter Dated

DEC 22 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-461

Active Ingredient:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-	
<u>methyl-4-pyrimidinyl) phosphorothioate</u>	<u>48.0%</u>
<u>Inert Ingredients*:</u>	<u>52.0%</u>
<u>Total:</u>	<u>100.0%</u>

*Contains xylene range aromatic solvent.

D·z·n diazinon AG500 contains 4 lbs. diazinon per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements and directions for use
inside booklet.

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EPA Reg. No. 100-461
EPA Est. 100-AL-1

Ciba-Geigy

D·z·n® trademark of Ciba-Geigy Corporation

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Ciba Plant Protection
Ciba-Geigy Corporation
Greensboro, North Carolina 27419

CGA 1L128F

[GANNONC.LABELD]DZNAG5WP

2 1/2 gals.
U.S. Standard Measure

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

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

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crcp injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

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General Information

D·z·n 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.

DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

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

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.

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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 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 early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical resistant gloves such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, and Viton \geq 14 mils, and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

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

Do not permit children or pets to go onto treated areas until sprays have dried.

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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 D·z·n 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.

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

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) - CRANBERRIES ONLY

D·z·n diazinon AG500 may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems to cranberries. To insure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.

Do not apply this product through any type of irrigation system to other crops. For chemigation, apply this product to cranberries only through sprinkler irrigation systems. Do not apply this product to cranberries through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect the irrigation system used for pesticide application to a public 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

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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 D·z·n diazinon AG500 needed to treat the acreage to be treated. Refer to the specific directions for use for cranberries for the application rate and the amount of water per acre.
3. Add the pre-measured D·z·n diazinon AG500 to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if D·z·n 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.

Fruit and Nut Crops

D·z·n diazinon AG500 may be applied using ground or aerial application equipment as specified in the table below. This table indicates the minimum amount of water that can be used for the various methods of application. The rate of D·z·n diazinon AG500 for aerial spray or concentrated spray applied to tree fruits by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at a rate of 300-400 gallons of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the "Rate" calls for 1 pt. of diazinon AG500 in 100 gallons of water, this amounts to 3-4 pts. of product per acre when applied at the usual dilute ground spray volumes of 300-400 gallons of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the Timing/Special Directions for individual crops.

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Crop	Aerial App. Minimum gals./ Acre	Ground App. Minimum gals./Acre	
		Dilute	Concentrate
Almonds*	20	100	20
Apricots	20	100	20
Blackberries**	20	100	20
Boysenberries**	20	100	20
Cherries	20	100	20
Cranberries	20	15	--
Dewberries**	20	100	20
Grapes	20	100	20
Loganberries**	20	100	20
Nectarines	20	100	20
Peaches	20	100	20
Pineapples	20	200	--
Plums	20	100	20
Prunes	20	100	20
Raspberries**	20	100	20
Strawberries	20	100	20
Walnuts*	20	100	20

*CA only.

**CA, OR, or WA only.

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

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

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

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Almonds (CA only)	San Jose Scale, Parlatoria Scale	1-1 1/2 pts. + 2-3 gals. dor- mant oil or 1-1 1/2 gals. supe- rior 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 applica- tion after 14 days if necessary.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Apricots (Contd)	Olive Scale Crawlers	1/2 pt. + 1 1/2 gals. of light medium hor- ticultural 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.

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

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CROP PEST RATE TIMING/SPECIAL DIRECTIONS

<p>Cane-berries CA, OR and WA only (Black-berries, Boysen-berries, Dew-berries, Logan-berries, Rasp-berries)</p>	<p>Leaf-hoppers, Thrips, Aphids, Two-spotted Spider Mites, Raspberry Fruit-worms, Raspberry Sawflies,</p>	<p>1 qt. per acre</p>	<p>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.</p> <p>Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum.).</p> <p>For raspberry fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.</p>
	<p>Dryberry Mites</p>	<p>1-2 qts. per acre</p>	<p>Apply as a dormant spray in the early Spring when canes are still on the ground and buds are closed. Make a second application when buds are well developed but still closed.</p> <p>Apply in a minimum of 100 gals. of water per acre. Do not apply within 7 days of harvest or illegal residues may occur.</p>
	<p>Raspberry Crown Borers, (Raspberry Root Borers)</p>	<p>2 qts. per acre</p>	<p>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.</p>

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cherries	Eyespotted Bud Moths, Fruit Tree Leaf-rollers	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 application.
	Cherry Fruitflies	1/2-1 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.	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.

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PM 13

100 - 461

File
page 1 of 72



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DEC 22 1993

Carolyn B. Bussey
CIBA-GEIGY CORP.
P.O. Box 18300
Greensboro, NC 27419

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 06/15/93 in Response to PR Notice 93-7
EPA Reg. No. 100-461
D.Z.N. DIAZINON AG 500

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:

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WHAT YOU NEED TO DO NEXT:

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- 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

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Grapes	Pacific Spider Mites, Leaf-hoppers, Grape Berry Moths, Grape Leaf-folders, Omnivorous Leaf-rollers, 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.
	<u>Drosophila</u> spp.	6 fl. ozs. 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.

Note: 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.

Nectar-rines	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.
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CIBA-GEIGY CORP.
D.Z.N. DIAZINON AG 500
100-461 6/15/93

Original Submission

Add the following statement: "Follow manufacturer's instructions for cleaning/maintaining PPE." If no such....." Refer to page 20 of the Main Labeling Guidance for placement.

Under the User Safety Recommendation add "Remove clothing immediately if pesticide get....."

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

4 of 72

NEW DRAFT (WPS)

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.

(Booklet for 2 1/2 Gallon Container)

D·z·n® diazinon AG500
Insecticide

For control of certain insects on
fruits, nuts, vegetables, field
crops, lawns and ornamentals.

This product must not be used on golf
courses and sod farms.

ACCEPTED
with COMMENTS
in EPA Letter Dated

DEC 22 1993

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

100-461

Active Ingredient:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-	
<u>methyl-4-pyrimidinyl) phosphorothioate</u>	<u>48.0%</u>
<u>Inert Ingredients*:</u>	<u>52.0%</u>
Total:	100.0%

*Contains xylene range aromatic solvent.

D·z·n diazinon AG500 contains 4 lbs. diazinon per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements and directions for use
inside booklet.

EPA Reg. No. 100-461

EPA Est. 100-AL-1

Ciba-Geigy

D·z·n® trademark of Ciba-Geigy Corporation

©1993 Ciba-Geigy Corporation

Ciba Plant Protection

Ciba-Geigy Corporation

Greensboro, North Carolina 27419

CGA 1L128F

[GANNONC.LABELD]DZNAG5WP

2 1/2 gals.

U.S. Standard Measure

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

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Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

General Information

D·z·n 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.

DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

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

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), 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 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 early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical resistant gloves such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, and Viton \geq 14 mils, and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

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

Do not permit children or pets to go onto treated areas until sprays have dried.

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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 D·z·n 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.

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

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) - CRANBERRIES ONLY

D·z·n diazinon AG500 may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems to cranberries. To insure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.

Do not apply this product through any type of irrigation system to other crops. For chemigation, apply this product to cranberries only through sprinkler irrigation systems. Do not apply this product to cranberries through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect the irrigation system used for pesticide application to a public 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

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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

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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 D·z·n diazinon AG500 needed to treat the acreage to be treated. Refer to the specific directions for use for cranberries for the application rate and the amount of water per acre.
3. Add the pre-measured D·z·n diazinon AG500 to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if D·z·n 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.

Fruit and Nut Crops

D·z·n diazinon AG500 may be applied using ground or aerial application equipment as specified in the table below. This table indicates the minimum amount of water that can be used for the various methods of application. The rate of D.z.n diazinon AG500 for aerial spray or concentrated spray applied to tree fruits by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at a rate of 300-400 gallons of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the "Rate" calls for 1 pt. of diazinon AG500 in 100 gallons of water, this amounts to 3-4 pts. of product per acre when applied at the usual dilute ground spray volumes of 300-400 gallons of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the Timing/Special Directions for individual crops.

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Crop	Aerial App. Minimum gals./ Acre	Ground App. Minimum gals./Acre	
		Dilute	Concentrate
Almonds*	20	100	20
Apricots	20	100	20
Blackberries**	20	100	20
Boysenberries**	20	100	20
Cherries	20	100	20
Cranberries	20	15	--
Dewberries**	20	100	20
Grapes	20	100	20
Loganberries**	20	100	20
Nectarines	20	100	20
Peaches	20	100	20
Pineapples	20	200	--
Plums	20	100	20
Prunes	20	100	20
Raspberries**	20	100	20
Strawberries	20	100	20
Walnuts*	20	100	20

*CA only.
 **CA, OR, or WA only.

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

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

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

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Almonds (CA only)	San Jose Scale, Parlatoria Scale	1-1 1/2 pts. + 2-3 gals. dor- mant oil or 1-1 1/2 gals. supe- rior 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 applica- tion after 14 days if necessary.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Apricots (Contd)	Olive Scale Crawlers	1/2 pt. + 1 1/2 gals. of light medium hor- ticultural 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.

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

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
<p>Cane-berries CA, OR and WA only (Black-berries, Boysen-berries, Dew-berries, Logan-berries, Rasp-berries)</p>	<p>Leaf-hoppers, Thrips, Aphids, Two-spotted Spider Mites, Raspberry Fruit-worms, Raspberry Sawflies,</p>	<p>1 qt. per acre</p>	<p>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.</p> <p>Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum.).</p> <p>For raspberry fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.</p>
	<p>Dryberry Mites</p>	<p>1-2 qts. per acre</p>	<p>Apply as a dormant spray in the early Spring when canes are still on the ground and buds are closed. Make a second application when buds are well developed but still closed.</p> <p>Apply in a minimum of 100 gals. of water per acre. Do not apply within 7 days of harvest or illegal residues may occur.</p>
	<p>Raspberry Crown Borers, (Raspberry Root Borers)</p>	<p>2 qts. per acre</p>	<p>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.</p>

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cherries	Eyespotted Bud Moths, Fruit Tree Leaf- rollers	1 pt. in 100 gals. of water	Apply in cover sprays as infestations occur begin- ning 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 application.
	Cherry Fruitflies	1/2-1 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.	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cherries (Contd)	San Jose Scale Crawlers	1 pt. in 100 gals.	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mites	1/2-1 pt. in 100 gals. of water	Apply to trees as a single supplemental spray after harvest.

Note: 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.

Cran- berries	Blackheaded Fireworms (<u>Rhopobota naevana</u>)	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 chemiga- tion.	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted. Do not apply within 7 days of harvest or ille- gal residues may occur.
	Cranberry Fruitworms	3 qts. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemi- gation.	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 ille- gal 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.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Grapes	Pacific Spider Mites, Leaf-hoppers, Grape Berry Moths, Grape Leaf-folders, Omnivorous Leaf-rollers, 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.
	<u>Drosophila</u> spp.	6 fl. ozs. 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.

Note: 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.

Nectar-rines	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.
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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Nectarines (Contd)	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 applica- tion after 14 days if necessary.

Note: 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 applica- tion after 14 days if necessary.
	Oriental Fruit Moths	1 pt. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional appli- cations at 10-15 day intervals. Time the last application to peak adult flight.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Peaches (Contd)	Peach Twig Borers	1 pt. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between application.
	Leafhoppers	1 pt. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications.
	White Peach Scale	1 1/2-2 pts. in 100 gals. of water	Apply post-harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation 2 applications (7 days apart) may be needed. Do not apply before fruit is harvested.

Note: 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.

Pine-apples	Pineapple Mealybugs	2 qts. per acre in 200-500 gals. of water	Repeat application as necessary every 28 days up to a maximum of 8 applications. Do not apply within 7 days of harvest or illegal residues may occur. Pineapple forage and refuse may not be fed to livestock.
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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Plums	Brown Mites (Clover Mites), European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 pt. in 100 gals. of water	

Note: 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	1/2-1 pt. in 100 gals. of water	

Note: 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.

Straw- berries	Aphids, Two-spotted Spider Mites	1 pt. in 100 gals. of water per acre	Apply as pests occur. Repeat application if necessary every 7 days, but do not make more than 3 applications per sea- son. Do not apply within 5 days of harvest or illegal residues may occur.
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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Straw-berries (Contd)	Cyclamen Mites	1 qt. in 100 gals. of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat application after 7 days if necessary. Do not make more than 3 foliar applications per season. Do not apply within 5 days of harvest or ille- gal residues may occur. Application may be made to plants after harvest.
	Mole Crickets	1 qt. per acre	Broadcast in sufficient water to obtain even cov- erage when insects are present. Apply 1-2 days before transplanting and immediatelty incorporate into the top 1-2 inches of soil.
	Strawberry Leaf- rollers	3/4-1 pt. in 100 gals. of water	Apply 200 gals. of spray per acre when blossoms show color. Do not apply within 5 days of harvest or illegal residues may occur.
Walnuts (CA only)	Aphids, Spider Mites	1 qt. per acre	Apply as a foliar spray. Repeat application in 14 days if necessary. Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open or illegal residues may occur. Make ground applications in a minimum of 100 gals. of water per acre.
	Codling Moths, Scale Crawlers, Walnut Cater- pillars	3 qts. per acre	

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Vegetable Crops

For foliar or soil applications, D·z·n diazinon AG500 should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. D·z·n 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 than 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.		Aerial Appl.
	Min. Gals. OR /Acre	Min. Gals. /1,000 Sq. Ft.	Min. Gals. /Acre
Beans (Lima, Pole and Snap) (succulent only)	10	2	5
Beets, Red (Table)	10	2	5
Broccoli	10	2	5
Brussels Sprouts	10	2	5
Cabbage	10	2	5
Cantaloupes	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
Cucumbers	5	1	5
Endive (Escarole)	10	2	5
Ginseng	10	2	5
Honeydew Melons	5	1	5
Kale	10	2	5
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
Parsley	10	2	5
Parsnips	10	2	5
Peas (succulent only)	10	2	5
Peppers	10	2	5
Persian Melons	5	1	5
*Potatoes (Irish)	10	2	5
Radishes	10	2	5
Spinach	10	2	5

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Crop	Ground Appl.		Aerial Appl.
	Min. Gals. OR /Acre	Min. Gals. /1,000 Sq. Ft.	Min. Gals. /Acre
Squash, Summer	5	1	5
Squash, Winter	5	1	5
Sweet Corn	20	4	5
Sweet Potatoes	10	2	5
Swiss Chard	10	2	5
Tomatoes	10	2	5
Turnips	10	2	5
Watermelons	5	1	5

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

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

Pre-Harvest Intervals (PHI*) for Foliar Applications

Crop	PHI (Days)
Beans (Lima, Pole, Snap)	7
Beets, Red (Table)	14
Broccoli	7
Brussels Sprouts	7
Cabbage	21
Cantaloupes	3
Carrots	14
Casabas	3
Cauliflower	7
Chinese Broccoli	10
Chinese Cabbage	10
Chinese 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 (Bulb and Green)	14
Parsnips	14
Peas	7
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radishes	14
Spinach	14
Squash, Summer	7
Squash, Winter	3
Sweet Corn	7
Swiss Chard	14
Tomatoes	1
Turnips, Roots & Tops	14
Watermelons	3

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

Notes: 1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see TIMING/SPECIAL DIRECTIONS) using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of surface cutworms, incorporate 2-3 inches, for subterranean cutworms incorporate 3-6 inches. 2) To Protect Bees: Foliar applications of this product should not be made to peas or beans if these crops or weeds in the treatment area are in bloom, or to corn during the pollen shed period.

Crop Pest Rate Timing/Special Directions

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

Crop	Pest	Rate	Timing/Special Directions
Beans, Lima (succu- lent only)	Leaf- hoppers, Spider Mites	1 pt. per acre	<p>Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.</p> <p>Do not apply within 7 days of harvest or illegal residues may occur.</p> <p>Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.</p> <p>NOTE: 1) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.</p>
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	Apply to plant bed, or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil
	Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organo-phosphate-resistant leaf-miners.</p>

Crop Pest Rate Timing/Special Directions

Broccoli	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorpo- rate into the top 3-4 inches or soil.
		4-8 ozs. per 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 ozs.) per plant by hand or by tractor mounted sprayer equipped with drop noz- zles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpo- ration Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Broccoli (Contd)	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 Cabbage worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or ille- gal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
Brussels Sprouts	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorpo- rate into the top 3-4 inches of soil.
		4-8 ozs. 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 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop noz- zles 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.

Crop Pest Rate Timing/Special Directions

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

Crop	Pest	Rate	Timing/Special Directions
Cabbage	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorpo- rate into the top 3-4 inches of soil.
		4-8 ozs. 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 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop noz- zles 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.

Crop	Pest	Rate	Timing/Special Directions
Cabbage (Contd)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 21 days of harvest or ille- gal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
Carrots	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.

Crop Pest Rate Timing/Special Directions

Carrots (Contd)	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 ille- gal residues may occur.
Cauli- flower	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorpo- rate into the top 3-4 inches of soil.
		4-8 ozs. 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 (4-8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop noz- zles 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.

Crop	Pest	Rate	Timing/Special Directions
Cauliflower (Contd)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 5 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
Chinese Broccoli	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.

Crop	Pest	Rate	Timing/Special Directions
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leaf-miners.
Chinese Mustard (Gai Choy)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leaf-miners.
Chinese Radish (Japanese Radish or Daikon) (FL and CA only)	Aphids, Diamondback Moths, Imported Cabbage-worms, 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. NOTE: Diazinon will not control organophosphate-resistant leaf-miners.

Crop Pest Rate Timing/Special Directions

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

Crop Pest Rate Timing/Special Directions

Cucum- bers (Cont)	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or ille- gal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
Endive (Esca- role)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.

Crop	Pest	Rate	Timing/Special Directions
Ginseng	Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice	3/4-1 pt. per acre	Spray when insects first appear. For heavy insect infestations, use 1 pt. per acre. Apply by ground equipment using 10 to 100 gals. of water per acre. <u>Do not apply more than one application per growing season.</u> Do not apply during flowering of three or four year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.
Kale	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids Diamondback Moths, Imported Cabbage- worms, Harlequin Bugs, Corn Earworms	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Lettuce	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leaf-miners.</p>

Crop Pest Rate Timing/Special Directions

<p>Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) and Watermelons</p>	<p>Cutworms</p>	<p>2-4 qts. per acre</p>	<p>Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)</p>
	<p>Wireworms</p>	<p>3-4 qts. per acre</p>	<p>Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.</p>
	<p>Aphids Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites</p>	<p>1/2-1 1/2 pts. per acre</p>	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 application per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.</p>

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	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbage- worms	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
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. NOTE: Diazinon will not control organophosphate- resistant onion maggots.
	Onion Thrips	1 pt. per acre	Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or ille- gal residues may occur.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Parsley	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpo- ration Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing, Special Directions
Parsnips	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest or ille- gal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
Peas (succu- lent only)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpo- ration Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Peas (succulent only) (Contd)	Aphids, Dipterous Leafminers	3/4-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.</p> <p>To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.</p> <p>Vines and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 7 days following treatment if forage is to be cut for hay.</p> <p>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.</p>
Peppers	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Cricketts	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Peppers. (Contd)	Aphids, Serpentine Leafminers	1/2-1 pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 5 days of harvest or ille- gal residues may occur. Note: Diazinon will not control organophosphate- resistant leafminers.
Potatoes	Cutworms (Surface & Subter- anean)	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpo- ration Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Southern Potato Wireworms (South- eastern U.S.)	2-4 qts. 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.

Crop Pest Rate Timing/Special Directions

Potatoes (Contd)	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	1/2-3/4 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 35 days of harvest or ille- gal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
	Banded Cucumber Beetles, Leaf- hoppers, Southern Armyworms	3/4-1 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 35 days of harvest or ille- gal residues may occur.

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

Radishes	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpo- ration Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop Pest Rate Timing/Special Directions

Radishes (Contd)	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 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. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
Spinach	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	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 leaf-miners.

Crop	Pest	Rate	Timing/Special Directions
Squash, Summer	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Wireworms	3-4 qts. 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	1/2-1 1/2 pts. per acre	Apply as insects occur. Repeat application as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
Squash, Winter	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Squash, Winter (Contd)	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	1/2-1 1/2 pts. per acre	Apply as insects occur. Repeat application as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or ille- gal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
Sweet Corn	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpo- ration Note.)
	Seed 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 incorpo- rate into the top 4-8 inches of soil.
	Corn Earworms	1-1 1/4 qts. per acre	Apply when silks first appear. Repeat applica- tion every 7 days if nec- essary. Do not make more than 5 applications per season.

Crop Pest Rate Timing/Special Directions

Sweet Corn (Contd)	Corn Rootworm Adults	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Corn Leaf Aphids	1-2 pts. per acre	Apply in sufficient water to provide complete cov- erage to the upper por- tions of the plants. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Grass- hoppers, 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.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn (Contd)	Sap Beetles	2-2 1/2 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. Forage may be fed to beef and dairy cattle and sheep.

Note: 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. 3) Corn may be picked 7 days after the last application.

Sweet Potatoes	Wireworms, Flea Beetles	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Swiss Chard	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Imported Cabbage- worms, Diamondback Moths, Harlequin Bugs	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.

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	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more 5 applications per season.
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	3/4-1 pt. per acre	Do not apply within one day of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Vinegar Flies (<i>Drosophila</i> spp.)	1/2-1 1/2 pts. per acre	

Crop	Pest	Rate	Timing/Special Directions
Turnips and Turnip Tops	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Cricketts	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest or ille- gal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leafminers.

Field Crops

Soil and foliar applications of D·z·n 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.

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 Leaf- hoppers, Dipterous Leafminers, Aphids	3/4-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. NOTE: Diazinon will not control organophosphate- resistant leaf-miners.
	Grasshoppers	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest.

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

Grassland Insects

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

Grasshoppers: Spray 3/4-1 pt. 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 or in oil (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.

Insect Control on Ornamentals

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

Insects	Amount of D·z·n Diazinon AG500 to Use	
	Rate per 3 gals. of water	Rate per 100 gals. of water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf tiers, Privet Mites, Scale Crawlers (Cottonycushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mites, Juniper Webworms, Whiteflies	1/2 fl. oz.*	1 pt.**
Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leaf rollers, Pear Slugs, Tent Caterpillars	1 1/2 fl. ozs.*	3 pts.**

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

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

Mimosa Webworms: Mix 1/2 fl. oz. in 3 gals. of water (or 1 pt. in 100 gals. of water) and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4-5 week intervals.

Lawn Pest Control (Excluding Golf Courses and Sod Farms)

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 or geese, can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least 1/4 inch water immediately after application, however stop watering before puddling occurs.

To control pests listed below, apply recommended rates.

Pest	Rate/1,000 sq. ft.		Remarks
	D.z.n diazinon AG500	Water	
Lawn Chinch Bugs	2-3 fl. ozs.	3 gals.	Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pill Bugs)	2-3 fl. ozs.	3 gals.	Spot spray ant hills and wasp ground nest openings. For frit flies, mow grass and water well before treatment but delay application until grass is dry. For digger wasps, apply at dusk when wasps are not active. For billbug control apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.
Brown Dog Ticks, Chiggers, Fleas	3 fl. ozs.	3 gals.	NOTE: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.

Pest	Rate/1,000 sq. ft.		Remarks
	D.z.n diazinon AG500	Water	
Hyperodes Weevils	3 fl. ozs.	3 gals.	Treat problem areas in mid-April and again in mid-May.
Millipedes	3 fl. ozs.	3 gals.	
Rhodesgrass Scales	3 fl. ozs.	3 gals.	Apply when crawlers first emerge.
White Grubs (such as Japanese Beetle Larvae, European Chafer, Southern Chafer)	3 fl. ozs.	3 gals.	Apply any time between late July and early October.

Nuisance Pests in Outside Areas

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

Mix 3 fl. oz. in 3 gals. of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide. To prevent entry of insects 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 ft. Repeat application as necessary. Do not apply to animals. Do not treat plants (other than tree trunks) at this nuisance pest rate.

Storage and Disposal

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

Pesticide:

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

Container:

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

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

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

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

Statement of Practical Treatment

This product is an organophosphate.

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

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

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

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

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

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 F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- a. long-sleeved shirt and long pants
- b. chemical resistant gloves such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, or Viton \geq 14 mils.
- c. shoes plus socks

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Engineering Controls Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Environmental Hazards

This product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping of sprays. If waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), water lawn 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 *For terrestrial uses,* 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.

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Ciba Plant Protection
Ciba-Geigy Corporation
Greensboro, North Carolina 27419

CGA 1L128G

Revised March 24, 1981

Revised February 23, 1983

March 11, 1985 - Incorporated EPA PR Notices 83-2 & 83-3, added new 2 1/2 gal. size, lower case "d" on diazinon.)

April 29, 1985 - Generic revisions, lower turf rates, fire ants and avian toxicity precautions, AI change.)

August 8, 1985 - deleted forest use per Ground Water Data Call-In Option.

October 25, 1985 - deleted fire ants.

Accepted 12/10/85

April 1986 - reduced turf rates, added precautions re: avian tox.

April 5, 1988 - added chemigation prohibition, deleted golf course/sod farm dfu and precautions under Env. Hazards. Added do not use on golf courses and sod farms to front panel.

June 7, 1989 - deleted crops not supported under May 1, 1987, EPA Data Call-In; added spill statement; added Chinese broccoli, Chinese cabbage, and Chinese mustard. Deleted bermudagrass and rangeland; changed all references from "Corn" to "Sweet Corn;" deleted aerial application instructions for corn. Added "Do not use on commercially grown potatoes which will be hand-harvested." Revised precautionary statements, Note to Physician, Env. Hazards; revised directions for use to be supported by

Data Call-In residue chem. program; added some pests; added Chinese radish, ginseng; many other revisions per EPA letter of April 26, 1989.

Revised 8/9/89 - Additional minor label revisions per EPA's 6/30/89 letter.

Revised 9/21/89 - Additional minor, label revisions per EPA's 6/30/89 letter and Reg. Std. changes

Revised 12/21/89 - added chemigation label lang.

Revised 1/12/90 - added chemigation referral statement to jug label and to specific cranberry dfus., revised Env. Hazards per EPA's 12/4/89 letter, made changes per EPA's 11/6/89 D.z.n 50W letter.

Accepted 5/10/90 - Reg. Std. changes

Revised 8/21/90 - Corrections to agree with printed label and additional minor changes requested in EPA phone call 8/21/90 - added greenhouse food crop use prohibition.

Revised 10/8/90 - corrected min. gals. for grapes and strawberries, other editor changes per EPA letter of 9/12/90.

Revised 2/11/91 per EPA letter of 1/3/91

Revised 5/11/92 - deleted celery and revised use patterns for leafy vegs, root and tuber vegs, Brassica leafy vegs, sweet corn, stone fruits, grapes, almonds because of over tolerance residues.

9/10/92 - revised Precautionary Statements per EPA review of 4/27/92 (Caution signal word).

9/18/92 - revised per EPA acceptance letter of 9/15/92 CGA 1L128E

4/1/93 - revised to delete

mushroom house use at EPA's
request. IR-4 data only
supported 50W.

6/8/93 - revisions per WPS
+ wetlands per prior notification

[GANNONC.LABELD]DZNAG5WP - 6/9/93

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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.

(Jug Label for 2 1/2 Gal.)

D·z·n® diazinon AG500

Insecticide

For control of certain insects on fruits, nuts, vegetables, field crops, lawns and ornamentals.

This product must not be used on golf courses and sod farms.

Active Ingredient:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	48.0%
Inert Ingredients*:	52.0%
Total:	100.0%

*Contains xylene range aromatic solvent

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2 1/2 gals.
U.S. Standard Measure

Ciba-Geigy

D·z·n diazinon AG500 contains 4 lbs. diazinon per gal.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See directions for use inside attached booklet.