AUG 2 2 1995

Mr. A. Eimanis Makhteshim-Agan of North America Inc. 551 Fifth Avenue, Suite 1100 New York, NY 10176

Dear Mr. Eimanis:

Subject: Amendment- Revise per Diazinon Registration Standard

DIASOL AG500

EPA Registration No. 66222-9

Your submission dated October 14, 1993

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

- 1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
- 2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. As you note in your cover letter, the correct signal word for this particular product is WARNING, based upon MRIDs 41495703 (acute dermal) and 41495704 (primary eye irritation). The sample labels covered all other AG500 products that use Ciba as a source, follow their formula, and depend on the Ciba's data. The Warning signal word, precautions, and WPS should remain as you submitted August 26, 1993 in response to WPS, unless revisions are indicated below.
  - b. Under Diasol AG500 add "Organophosphate".
  - c. Under Diasol AG500 revise "turf" to read "lawns"
  - d. Revise "Contains xylene range aromatic solvent" to "Contains xylene".

- e. Under STATEMENT OF PRACTICAL TREATMENT delete "If inhaled- Remove victim to fresh air and apply artificial respiration if indicated." and replace with " Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.".
- f. Under STATEMENT OF PRACTICAL TREATMENT after "If on skin- Remove contaminated clothing and wash affected areas immediately with soap and water." add "Rinse thoroughly. Get medical attention.".
- g. Revise the Hazards to Humans and Domestic Animals to read as follows: May be fatal if absorbed through skin. Causes substantial but temporary eye injury. Do not get in eyes, or skin, or a clothing. Harmful if swallowed or inhaled. Avoid breathing vapor or spray mist. Do not contaminate flood or feed. Keep out of reach of domestic animals. Do not use on humans, household pests or livestock. Do not contaminate ornamental fish ponds.".
- h. You indicate this product is Toxicity Category III for acute inhalation. Therefore, delete item "7", the respirator requirement, from the list of personal protective equipment as submitted to WPS. However, because of Toxicity (ategory II for acute dermal add the following to the PPE listing: "Wear chemical-resistant headgear for overhead exposure. When mixing/loading or cleaning equipment add a chemical-resistant apron.".
- i. Delete the second (NPDES) paragraph from the Environmental Hazards section. This product is not subject to PR Notice 93-10.
- j. Under USER SAFETY RECOMMENDATIONS, change "1) wash hands" to read "1) Wash hands".
- k. Under AGRICULTURAL USE RÉCOMMENDATIONS, delete "of 12 hours". The proper REI for each crop group will appear directly under its heading (see below).
- Under the headings Fruit and Nut Crops, Vegetable Crops, and Field Crops add "REI-24 hours".
- m. Under the heading Insect Control on Ornamentals, add "REI-12 hours".

- n. In the **NOTE:** about the California Department of Agriculture, delete "citrus" and change "organic phosphate" to "organophosphate".
- o. Under STORAGE AND DISPOSAL: after "Store in dry place." add "Open dumping is prohibited.".
- p. After "Storage" add the following heading and text: "Pesticide Disposal: Pesticide wastes are toxic. Improper disposal 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 of the nearest EPA Regional Office for guidance.".
- q. Under STORAGE AND DISPOSAL CONTAINER DISPOSAL:, delete "Wastes resulting from...disposal facility.".
- r. Also under STORAGE AND DISPOSAL CONTAINER DISPOSAL:, add "Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.".
- s. Under GENERAL INFORMATION change "Application should be repeated as necessary to maintain control." to read "Application should be repeated only as directed to maintain control.".
- 3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

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

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

Your current Confidential Statement of Formula (CSF) does not list the impurities of toxicological concern separately nor does it include the diazinon certification for FIFRA Sec. 12(a)(1)(C), that the description of this product refers to the composition set forth on the CSF and supporting materials as required by the Diazinon Registration Standard, as well as the certification regarding the determination of the certified limits of the toxicological significant impurities, i.e., reliance on your analysis of your

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technical. Please submit an updated CSF within 60 days.

The Agency has completed its review of the two year storage stability test and has the following comments:

- a. You must explain the occurrence of TEPP, Sulfo-TEPP, and Diazoxon impurities in samples of Diasol AG500 taken at the time of production at levels of 0.02, 0.2, and 0.02%, respectively.
- b. You will need to submit the results of the ongoing 4-year storage stability for diazinon 48% AI in the enduse product Diasol AG500 when stored in commercial containers under ambient warehouse conditions.

Sincerely,

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

Enclosure

5 9 25

# 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

# **DIASOL AG500**

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

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

For Agricultural and Commercial Use Only

Active	Ingredients:
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Diazinon (O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate) 48%

..... <u>52%</u> Total 100%

\* Contains xylene range aromatic solvent.

Contains 4 lbs. diazinon per gallon

# **KEEP OUT OF REACH OF CHILDREN**

### **CAUTION**

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

### STATEMENT OF PRACTICAL TREATMENT

### 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 and apply artificial respiration if indicated.

If on skin - Remove contaminated clothing and wash affected areas immediately with soap and water.

If in eyes - Flush eyes with plenty of water. Call a physician immediately.

Note to Physician This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine. Solvents present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

See side panel for precautionary statement

With COMMENTS In FPA Letter Dated

AUG 2 2 1995

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registered under 114 Her. So
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# **WARRANTY STATEMENT**

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instruction, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

Manufactured by:

Makhteshim-Agan of North America Inc.

551 Fifth Avenue, Suite 1100

New York, NY 10176

EPA Reg. No. 66222-9

	EPA EST. No.
Net Content	

# 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. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. 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. Do not permit pets to go onto treated areas until spray has dried.

### 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: 1) long sleeved shirt and long pants; 2) chemical-resistant gloves, such as barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), and Viton (> 14 mils); and, 3) shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for ... cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

# USER SAFETY RECOMMENDATIONS

# Users should:

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

# ENGINEERING CONTROLS STATEMENT

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 dirnking 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 spet treatment), apply 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. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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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## **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.

# Chemigation

Refer to specific section in this label 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.

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 reequirements 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), notification to workers, and restricted-entry interval. The requirements of this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 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 to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

1) coveralls; 2) chemical-resistant gloves such as barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), or Viton (> 14 mils); and,3) shoes plus socks.

Notify workers of the application by warning them orally and by posting warning signs at chirances to treated areas.

# 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 greenhous:

Do not use on humans or permit children to go onto treated areas until spray has completely dried.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried. Protective clothing means, at least, a hat or other suitable head covering, long-sleeved shirt and long-legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with product. When oral warnings are given, warnings shall be in a language customarily understood by the workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by the workers.

Written warnings must include the following information: Signal Word: WARNING. Area treated with diazinon on (date of application). Do not enter without appropriate protective clothing until sprays have dried. (Insert State Department of Agriculture reentry interval if more restrictive). In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to diazinon and describe his condition. For further information see the Precautionary Statements and Statement of Practical Treatment.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

NOTE: The California Department of Agriculture has set a 5-day reentry for Diasol on citrus, grapes, peaches, and nectarines. Five days should glapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organic phosphate pesticides is applied, the interval shall be prolonged by adding to the longest application interval an additional 50% of that interval.

### STORAGE AND DISPOSAL

Storage: Do not contaminate water, food, or feed by storage or disposal. Store in a dry place.

Container Disposal: Triple rise (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state or local authorities.

Wastes resulting form the use of this product may be disposed of on site or at an approved waste disposal facility.

In case of minor spills, follow all precautions indicated above and clean up immediately. Sweep up and dispose of wastes and broken or empty containers in a landfill approved for pesticide use."

# **GENERAL INFORMATION**

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

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

### **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 Diasol AG500, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See Practical Treatment section of this label. When handling this product, wear the personal protective equipment listed on this label.

In the directions for use which follow, best control is obtained when application is made at the first sign of insects. Applications should be repeated as necessary to maintain control.

#### CHEMIGATION

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

PIASOC. AG500 may be applied alone or in combination with other pesticides registered for application through sprinkler intigation systems to crandernes. 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, tack of effectiveness, or illegal perticide 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 imigation system used for posticide application to a problem water system unless the posticide tabelprescribed safety devices for public water systems are in place. A person x. "wiedgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments, if the need anses.

#### Chemigation System Connected to Public Water Systems

- 1. Public water system means a everent 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 action 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

- The system must contain a functional check valve, a vacuum relief valve, and low pressure drain appropriately located on the impation pipeline to prevent water source contamination from backflow.
- The pesticide injection proeline must contain a functional, automatic, quick-closing check varve to prevent the flow of fluid back toward the injection pump.
- 1. The restorde injection proeline must also contain a functional, normally closed, solerioid-operated verve located on the inter a size of the injection pump and connected to the system intertock to prevent fluid from being withdrawn from the supply tank when the injection system is either automatically of manually afful down.
- 4 The system must contain functional interlocking controls to sulprissically shuft off the pasticide injection pump when the water pump motor stops.

- The imagion 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 as adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., disphragm pump) effectively
  designed and constructed of materials that are compatible with pesticides and capable of being littled with a system
  interiod.
- 7. Do not apply when wind speed fevors drift beyond the area amended for irrestment.

#### Operating instructions

- Determine the acreage to be treated by the spnnkler system.
- 2. Measure the appropriate amount of DIASOL. AG500 needed to treat the acreage to be treated. Refer to the specific directions for use for cranbernes for the application rase and the amount of water per acre.
- 3. Add the pre-measured DIASOL AG500 to the chemigation system supply tank and dilute with water if needed. Proper egitation is needed if DIASOL AG500 is tank mixed with other pasticides registered for sprinkler chemigation application to cranbernes.
- Start the imgation 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 diszonor to the impation lines.
- Continue to run impation system for a few minutes after supply tank is empty to allow material in the impation knes to reach the sprinkler heads furthest from the Chemigation injection point.

#### Fruit and Nut Crops

DIASOL. AG500 may be applied using ground or aerial application equipment as specified in the following table. This table indicates the *minimum* amount of water that can be used for the various methods of application. The rate of DIASOL AG500 for senal apray or concentrated apray applied to fruit trees by ground equipment is based on a diffute full cover apray applied with conventional ground equipment at a rate of 300-400 gats, 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 DIASOL AG500 in 100 gats, of water, this amounts to 3-4 pts. of product per acre when applied at the usual diffus ground apray volumes of 300-400 gats, 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.

	Aerial Application	Ground Application Minimum Gels./Acre		
Сгор	Minimum Gala./Acre	Dilute	Concentrate	
Almonds*	20	100	20	
Apricots	20	100	20	
Blackpernes **	20	100	20	
Boysennemes " "	20	190	20	
Chemes	20	100	20	
Cranbemes	20	15	_	
Dewbernes * *	20	100	20	
Grapes	20	100	20	
Loganberries **	20	100	20	
Nectarines	20	100	20	
Peaches	20	100	20	
Plums	20	100	20	
Prunes	20	100	20	
Raspoemes **	20	100	20	
Strawnerries	20	100	20	
Walnuts*	20	100	20	

<sup>\*</sup>CA only

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

Crep	PHI"
Almonds	••
Aoricole	21
Blackbernes	7
Boysenbernes	7
Chemes	21
Cranberres	,
Dewbernes	7
Grapes	28
Logandemes	7
Nectaryee	21
Prechet	21
Pluma, Prunes	21

<sup>\*\*</sup>CA, OR, or WA only

Стор	PHI *
Rasphermes	7
Strewbernes	5
Walnuts	45

<sup>\*</sup>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 on grapes.

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

Crop	Pest	Rete	Timing/Special Directions
Almonds (CA only)	San Jose Scale, Parlatona Scale	1-1½ pts. + 2-3 gals, dormant oil or 1-1½ gals, superior type oil in 100 gals, of water	Apply as a dormant spray. Do not apply more than 6 pts. of diazinon or 9 gals. of oil per acre.
Apricots	Aphids, Brown Miles (Clover Miles), Two-spotted Spider Miles, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Olive Scale Crawlers	1/2 pt + 1 1/2 gals of light medium horiscuttural pil per 100 gals, of water	Apply when scale crawlers are present
	Apricol Mealypugs	1 pt. per 100 gais, of water	Apply as a cover spray from petal fall to June. Allow 14 days between applications.

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

Canebernes (CA. OR and WA only) (Blackberries,	Leafhoppers. Things: Aphids, Two-sported Spider Mites.	1 qt. per acre	Apply as insects occur. Repeat application after 14 days if necessary. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.
Boysenbernes, Dewbernes, Loganbernes	Raspberry Fruitworms, Raspberry Sawffres		Apply in a minimum of 100 gals, of water per acre (200 gals, per acre maximum).
Raspoemes)			For Respherry Fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mites	1-2 qts per acre	Apply as a dormant spray in the early Spring, when canes are still on the ground and buds are closed. Make a second application when buds are well developed but still closed.
			Apply in a minimum of 100 gals, of water per acre Do not apply within 7 days of hervest or illegal residues may occur.
	Raspoerry Crown Borers (Raspoerry Root Borers)	2 crts, per acra	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.
Chemes	Eyespotted Bud Moths. Fruit Tree Leafrollers	1 pt. m 100 gals. of water	Apply in cover sprays as infestations occur beginning at potal fall. Reneat application after 7 days if necessary.
	Lesthoppers	1 pt. m 100 gais. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow / days between applications.
	Cherry Fruitflies	1/2-1 pt. in 100 gals. of water	Make 3-4 applications beginning when adult files begin to amonge and reseating at 10 day intervals.
	Black Cherry Aphids	1 pt. in 100 gais. of water	Apply as a cover apray when aphids appear. Repeat application after 10 days if necessary
	San Jose Scale Crawlers	1 pt, in 100 gals. of water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mass	1/2-1 pt. in 100 gats, of water	Apply to trees ait a single supplemental soray after hervest

Notes: (1) Do not make more than 3 approximate per season. (2) Do not apply more than 4 pts. of product per sore per application and no more than 12 pts. of product per sore per season. (3) Allow a minimum of 21 days serveen the test application and hervest.

<sup>\*\* =</sup> Dormant spray only.

	Pest	Rate	Timing/Special Directions
Cranbernes	Blacknesded Fireworms (Rhopocode nesvene)	2 qts. in a minimum of 15 gals, of water per acre for ground application and up to 400 gals, of water per acre for chemigation.	of harvest or illegal residues may occur.
	Cranberry Frunworms	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 chamigation.	of harvest or illegat residues may occur.
Note: This production direction		es through sprinkler	impation. Refer to the Chemigation section for specifi
Grapes	Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leaffolders, Omnivorous Leafrollers, Aphids, Spider Mites	1-2 pts. per acre in a minimum of 100 gais, of water	
	Drosophile spp.	6 ff. oz. per acre in a minimum of 100 gals, of water (300 gals, of water maximum)	Apply as pest occurs as a thorough cover soray Repeat application after 7 days, if necessary
	apply more than 2 pts. of proc residues, allow 28 days betw		blication and no more than 10 pts, per acre per season tion and harvest.
Nectarines	Oriental Fruit Moths	1 pt. in 100 gats. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight.
	Aphids, Brown Miles (Clover Miles), Two-spotted Spider Miles, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers	1 pt, in 100 gats. of water	Apply as infestations occur. Repeat application after 14 days if necessary
			olication and no more than 12 pts. per acre per season
Peaches	Aphids Brown Miles (Clover Miles), Two-spotted Spider Miles,	1 pt in 100 gals of water	. Poly as intestations occur. Repeat application after 14 days if necessary
	Olive Scale Crawters,	1	
	Olive Scale Crawlers, San Jose Scale Crawlers		
	San Jose Scale	1 pt. in 100 gals of water	Apply at 100% petal fail. Make 2 additional appli- cations at 10-15 day intervals, Time the last appli- cation to peak adult flight.
	San Jose Scale Crawlers		cations at 10-15 day intervals. Time the tast appli-
	San Jose Scale Crawiers Onental Fruit Moths	of water	cations at 10-15 day intervals. Time the last appli- cation to peak adult flight.  Apply as insects occur in May and June. Allow 7.
	San Jose Scale Crawlers Oriental Fruit Moths Peach Twig Borers	of water  1 pt, in 100 gats, of water  1 pt, in 100 gats.	cations at 10-15 day intervals. Time the last application to peak adult flight.  Apply as insects occur in May and June. Allow 7 days between applications.  Make 3-4 applications beginning at petit fall and continuing through the growing season. Allow at
	San Jose Scale Crawlers Onental Fruit Moths Peach Twig Borers Leathoppers White Peach Scale	of water  1 pt. in 100 gals. of water  1 pt. in 100 gals. of water  1 l/2-2 pts. in 100 gals. of water  sct per acre per apple	cations at 10-15 day intervals. Time the last application to peak adult flight.  Apply as insects occur in May and June. Allow 7 days between applications.  Male 3-4 applications beginning at betal fall and continuing through the growing season. Allow at least 7 days between applications.  Apply post-harvest timed to coincide with peak crawler and immerure scale activity. Under conditions of heavy infestation 2 applications (7 days apart) may be needed. Do not apply before fruit is hervested.
	San Jose Scale Crawlers Oriental Fruit Moths Peach Twig Borers Leafnoppers White Peach Scale	of water  1 pt. in 100 gals. of water  1 pt. in 100 gals. of water  1 l/2-2 pts. in 100 gals. of water  sct per acre per apple	cations at 10-15 day intervals. Time the last application to peak adult flight.  Apply as insects occur in May and June. Allow 7 days between applications.  Male 3-4 applications beginning at betal fall and continuing through the growing season. Allow at least 7 days between applications.  Apply post-harvest timed to coincide with peak crawler and immerure scale activity. Under conditions of heavy infestation 2 applications (7 days apart) may be needed. Do not apply before fruit is hervested.

Notice: (1) Do not sopry more than 4 pts, of product per sore per application and no more than 12 pts, of product per sore per season, (2) Allow a minimum of 21 days between the last application and Nervett.

Стор	Pest	Flate	Timing/Special Directions
Prunes	Brown Miles (Clover Miles), European Red Miles	1 pt. in 100 gais. of water	Apply as needed every 7 days.
	Lealcuri Plum Aphids, Mealy Plum Aphids, Thistie Aphids	1/2-1 pt, in 100 gais, of water	

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

Strawbernes	Aphids, Two-spotted Spider Mites	1 pt. in 100 gals. of water per acre	Apply as pests occur. Repeal application if necessary every 7 days, but do not make more than 3 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.
	Cyclamen Mres	1 crt. in 100 gals. of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agritted to assure thorough coverage of the foliage. Repeat application after 7 days if necessary. Do not make more than 3 foliar applications per season. Do not apply within 5 days of harvest or illegal residues may occur. Application may be made to plants after hervest.
	Mole Crickets	1 cpt. per acre	Broadcast in sufficient water to obtain even coverage when insects are present. Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
	Strawperry Leatrollers	%-1 pt. in 100 gals of water	Apply 200 gals, of soray per acre when biossoms 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
	Codling Moths. Scale Crawlers. Walnut Caterpillers	3 qts per acre	per season. Do not apply within 45 days of harvest or after husks open or flegal residues may occur. Make ground applications in a minimum of 100 gals of water per acre.

# Vegetable Crops

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

	Ground Application			
Сгор	Minimum Gale./Acre	OR	Minimum Gala./1.000 Sq. Ft.	Aerial Application Minimum 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 Cabbege	10		2	5
Chinese Musterd	10		2	5
Chinese Radish (CA, FL only)	10		2	5
Collards	10		2	5
Crenshaws	5		1	5
Cucumbers	5	7	1	5
Endrve (Escarole)	10		2	5
inseng	10		2	5
Honeydew Melons	5		1	5
Cale	10		2	5
etruce, Heed	10		2	5
ettuce, Leef	10		2	5
Mugametens	5		1	5

	Gn		
Стор	Minimum Gale./Acre	OR Gale./1,000 Sq. Ft.	Aerial Application Minimum Gala / Acre
Mustard	10	2	5
Onione (Bulb and Green)	10	2	5
Pareley	10	2	5
Paranips	10	2	5
Peas (succulent only)	10	2	5
Peppers	10	2	5
Persian Melons	5	1	5
* Potatoes (inch)	10	2	5
Redishee	10	2	5
Spinech	10	2	5
Squash, Summer	. 5	1	5
Squash, Wirtler	5		5
Sweet Corn	20	4	5
Sweet Potasses	10	2	5
Swiss Chard	10	2	5
Tomatoes	10	2	5
lumips	10	2	5
Watermelons	5	1	5

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

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

Сгор	PHI* (Days)
Beans (Lima, Pole, and Snap)	7
Beets, Red (Table)	14
Вгосоож	77
Brussels Sprouts	7
Cabbage	21
Cartaloupes	3
Carrots	14
Casapas	3
Cautiflower	,
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Mustard	10
Chinese Radish	10
Collards	10
Crenshaws	3
Cucumpers	7
Endive (Escarpte)	14
Gineerig	30
Honeydew Melons	3
Kale	10
Lettuce	14
Muskmetone	3
Mustard	10
Onions (Bulb and Green)	14
Personol	14
Pota	7
Percent	5
Persian Metone	3
Polisioss (Irish)	35
Redienes	14
Somech	14
Squash, Summer	7

 $<sup>^{4}\</sup>text{Do}$  not use on commercially grown possibles which will be hand-harvested.

### Pre-Hervest Intervals (PHI\*) for Foller Applications (continued)

PHI* (Deye)
3
7
14
1
14
3

<sup>\*</sup>PHI = Pre-Harvest Interval or the number of days between the last application and harvest.

Notes: (1) Soli 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 curvorms, incorporate 2-3 inches, for subterranean curvorms 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.

Сгор	Pool	Rate	Timing/Special Directions
Beans (Lima, Pole, and Snep) (succulent only)	Cutworms	2-4 QLs. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
(soccount only)	Wireworms	3-4 qts, per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Black Been Aphids, Mexican Deen Beetles, Dipterous Leafminers	1-1 ½ 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.
	Cucumper Beetles	44 pt. per acre	Bean forage or been hay may be fed to dairy and beef cattle and sheep. Wart 4 days following treatment if forage is to be cut for hay
			Make cucumber beetts application in 100 gats of water per acre
			Notes: (1) Diazrinon will not control organophos- phate-resistant lealminers. (2) To protect bees do not apply foliarly if the crop or weeds in the treat- ment area are in bloom.
Beans, Lima (succulent only)	Leatnoopers Spider Miles	1 pt per scre	Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.
			Do not apply within 7 days of harvest or illegal residues may occur.
			Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Waif 4 days following treatment if forage is to be cut for hay
			Note: To protect bees, do not apply foliarly if the crop or weeds in the treatment side are in bloom
Beets Red (Table)	Cutworms	2-4 cts per acre	Broadcast just before planting and immediately incorporate into h voil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant bleds 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 planking and immediately incorporate into the top 4-8 inches of soil.
	Orpterous 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 illegal readuse may occur.
:			Note: Diazznon will not control organophosohete- resistant leafminers.
Proceeds	Root Maggota	2-3 qts. per acre	Apply to plant bade or fields just before sowing of seed or transcianting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. per 50 gals, of water	In transplent water as a drinch application when 200-300 gale, of water are used per acre. Apply $V_2$ , true (4 to 8 oz.) per plant by hand or by tractor mounted aprayer equipped with drop nozzies to direct spray to the base of the plant.
			Note: Transplant water treatments may result in stand reduction due to plant strees at time of transplanting.

Сгор	Post	Rate	Timing/Special Directions
Broccoli (continued)	Cutworms	2-4 qts. per scre	Broadcast just before planeng and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Cnckets	1 qt. per acre	Apply to plant beds or helds 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 scre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported	V2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Cabbageworms, Dipterous Leatminers		Do not apply within 7 days of harvest or illegal residues may occur.
	_	1	Nete: Diazinon will not control organophosphate- resistant leafminers.
Brusseis Sprouts	Root Maggots	2-3 qts. per scre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals, of water	In transplant water as a drench application when 200-300 gals, of water are used per acre. Apply ½-cup (4 to 8 oz.) per plant by hand or by tractor-mounted aprayer equipped with drop nozzles to direct spray to the base of the plant.
			Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting
	Cutworms	2-4 qts per acre	Broadcast just before planting and immediately incorporate into the soil, (See Soil Incorporation Note.)
	More Crickets	1 qt. per acre	Apply to brant beds or fields 1-2 days before sowing of seed or transplanting and immediately incor- porate 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, Diamondoack Moths, Imported	1/2-1 pt per scre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Cabbageworms		Do not apply within 7 days of hervest or illegat residues may occur
Cabbage	Root Maggots	2-3 qts per ecre	Apply to prant beds or fields sust before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz in 50 gais of water	In transplant water as a dirench application when 200-300 gats of water are used per acre. Apply $\frac{1}{2}$ -1 cup (4 to 8 oz.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.
		<u> </u>	Nete: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per scre	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.
	Wиeworms	3-4 qts. per scre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dismondback Moths, Imported	½-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season
	Cabbageworms, Dipterous Leatminers		Do not apply within 21 days of hervest, or illegal residues may occur.
			Nete: Diazzion will not control organophosphate- resistant leafminers

Стр	Post	Rate	Timing/Special Directions
Сагтоть	Curworms	2-4 qts. per acre	Prospession in before planting and immediately incorporate into the soil (See Soil Incorporation Note)
	Mole Crickets	1 ct. per acre	Apply to plant beds or fields 1-2 days before sowns of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qus. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil
	Achids	1 pt. per acre	Apply as meeds 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 diegal readuse may occur.
Cauliflower	Root Maggots	2-3 qts. per ecre	Apply to plant bads or fields just before sowing of seed or transplanting and immediately incorporate set the top 3-4 inches of soil.
		4-8 oz. m 50 gais. of water	In transplant water as a drench application when 200-300 gate, of water are used per scre. Apply ½-cup (4 to 8 oz.) per plant by hand or by tractor-mounted appayer equipped with drop nozzles to direct appay to the base of the plant.
			Nate: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 gts per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 ot 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 gts per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil
	Aphids Diamondback Moths, Imported	V2-1 pt per scre	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications
	Cabbageworms Dipterous Leatminers		De not apply within 5 days of harvest or illegal residues may occur.
			Note: Diazrinon will not control organophosphate- resistant leafminers
Chinese Broccoli	Aphids Diamondpack Moths Imported Cabbageworms	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.
	Dipterous Leatminers		Do not apply within 10 days of harvest or illegat residues may occur.
			Nate: Diazinon will not control organophospinale- resistant leafminers
Chinese Cabbage Bok Choy and Napa)	Aphids, Diamondback Moths, Imported	1/2-1 pt per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more trian 5 applications per season.
j	Cabbageworms Diplerous Leafminers	<u> </u> 	Do not apply within 10 days of harvest or illegal residues may occur.
			Nets: Diazznon will not control organophosphale- resistant leafminers.
Chinese Mustant Gai Choy)	Aphids, Diamondback Moths, Imported	1/2-1 pt. per scre	Apply as insects occur. Recent application, as necessary, every 7 days, Do not make more than 5 applications per season.
	Cabbageworms, Dipteroija Laatminera		Do not apply within 10 days of hervest or Hegal residues may occur.
	·		Note: Diazonon will not control organophosphate- resistant leafminers.
Chinese Radish Japanese Redish or Daikon) FL and CA only)	Aphids, Diamonaback Moths, Imported Cabbageworms,	1 pt. per acre	Mix is a minimum of 100 gais of water per acre and anply as a foliar spray as pests occur. Repeat application as necessary, every 14 days. Do not make more than 3 applications per season
	Diptérous Léatminers		Do not apply within 10 days of hervest or itlegal residues may occur.
			Nete: Diazenon will not control organophosphete- resistant leafminers.

Сгор	Post	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 scre	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.
	Wesworms	3-4 qts. per acre	Broadcast just before planting and immediately in- corporate into the top 4-8 inches of soil
	Aphids, Diamondbeck Moths, Imported	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.
	Cabbageworms, Harrequin bugs, Com Earworms		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.
	Aphids, Serpentine Leafininers, Thinps,	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Striped Cucumber Besties. Melonworms		Do not apply within 7 days of harvest or illegal residues may occur
			Note: Diazinon will not control organophosphate- resistant leatminers
Endive (Escarole)	Cutworms	2-4 qts. per acre	Broadcast just before pranting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 on per scre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the lop 1-2 inches of soil
	Wireworms	3-4 gts. per acre	Broadcast just before planning and immediately incorporate into the top 4-8 inches of soil
	Aphids. Dipterous Leatminers	V2 1 pt per acre	Apply as insects occur. Repeat application: as necessary, every 7 days. Do not make more than 5 applications per season.
			Do not apply within 14 days of harvest  Note: Diazinon will not control organophosphate-
			resistant leafminers
Ginseng	Leathoppers, Aphids Lygus Bugs Flea Beetles Jumping Plant Lice	3-a-1 pt peracre	Spray when insects first appear. For heavy insect infestations, use 1 bt. per acre. Apply by ground equipment using 10 to 100 gais, of water per acre. Do not apply more than one application per growing asseon. 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 investock.
Kale	Cutworms	2-4 gts 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 crs. per acre	Broadcast just before planning and immeritately incorporate into the top 4-8 inches of soil
	Aphids, Diamondback Moths, Impuned	1/2-1 pt per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. On not make more than 5 applications per season.
	Cabbageworms, Harlequin bugs, Com Earworms		Do not apply within 14 days of hervest or illegal residues may occur.
ettuce	Curworms	2-4 qts. per aure	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
Ţ	Mole Crickets	1 of per sore	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

Сгор	Pest	Flate	Timing/Special Directions
Lettuce (conunued)	Wireworms	3-4 qts. per acre	Broadcast just before planning and immediately incorporate into the top 4-8 inches of soil
	Aphids. Dipterous Leafminera	Vs-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per sesson.
		}	Do not apply within 14 days of harvest.
			Note: Diezinon will not control organophosphete- resistant leafminers.
Melons (Cantaloupes, Casanas,	Cutworms	2-4 cps. per ecre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
Crensnaws, Honeydews Muskmelons,	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Persians, and Hybrids of these) and Watermelons	Aphids, Dipterous Leafminers, Thinps,	V2-1 V2 pts. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Striped Cucumber Beatles, Melonworms		Do not apply within 3 days of hervest or illegal residues may occur.
	Lesiftoppers, Spider Mries		Note: Diazonon will not control organophosphate- resistant leafminers.
Mustard	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 Q1 per scre	Apply to plant beds or helds 1-2 days before sowing of seed or transplanting and immediately incor- porate into the top 1-2 inches of soil
	Wireworms	3-4 qts per ecre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil
	Aphids, Dipterous Leafminers Diamondback Moths	Vz-1 pt per scre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Cabbageworms		Do not apply within 10 days of harvest or illegal residues may occur.
			Note: Diazmon will not control organophosphate- resistant leafminers.
Onions Bulb and	Onion Maggots	2-4 qts per acre	Broadcast juil hefore planting and mix into the top. 3-4 inches of soil.
Greent			Nete: Diazinon will not control organophosphate- resistant pnion maggots
	Onion Thrips	1 pt per acre	Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season.
			Do not apply within 14 days of harvest or illegal residues may occur
	Wireworms	3-4 qts cer acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil
Parsiey	Cutworms	2-4 qts per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
!	Wirewerms	3-4 gts, per ecre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Parsnips	Aphids, Flea Beetles, Dipterous Learminers	½-1 pt. per scre	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 hervest or illegal residues may occur.
			Note: Diazmon wik not control organophosphate- resistant leafminers.
Peas succulent only)	Cutworms	2-4 gts per scre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 crts per acre	Broadcast just before planting and immediately inco-porate into the top 4-8 inches of soil

Peas (succident only)	PRET	Hate	Liumida abacter practions
(continued)	Aphids. Dipterous Leatminers	Not pt. per acre	Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.
			To avoid illegal residues, allow a minimum of 7 days between the last application and narvest.
			Vines and hey may be fed to dairy and beef cattle and sheep. To avoid slegal residues, wait 7 days following treatment if forage is to be cut for hay
			Notes: (1) Diazznon will not control organophos- phate-resistant leafminers. (2) To protect bees, do not apply foliarly if the crop or weeds in the treat- ment area are in bloom.
Peppers	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil incorporation Note.)
	Mole Crickets -	1 q1, 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. Serpemine Leatminers	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 illegal residues may occur
			Note, Diazinon will not control organophosphate- resistant lealminers
Potatoes	Cutworms (Surface and Subterranean)	2-4 qts. per acre	Broadcast just before planting and immediately in- corporate into the soil (See Soil Incorporation Note )
ļ	Wireworms	3-4 qts per acre	Broadcast just before planting and immediately incorporate into the lop 4-8 inches of soil
	Southern Potato Wwwworms (Southeastern U.S.)	2-4 qts, per acre	For potations grown on mineral soils in the Southeast, apply before planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.
:	Aphids, Flea Beetles, Colorado Potato	½-¾ pt per ncre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Beetres Dipterous Leafminers		Do not apply within 35 days of harvest or illegal residues may occur
			Nete: Diazinon will not control organophosphate- resistant leatminers
	Banded Cucumber Beetles Leatnoppers	14-1 pt per acre	Apply as insects occur. Repeat application as necessary, every 7 days. Do not make more than 5 applications per season.
	Southern Armyworms		Do not apply within 35 days of harvest or illegal residues may occur
Mate: Do not use on	commercially grown potate	pes which will be hai	nd-hervested
Radishes	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil, (See Soil Incorporation Note.)
Ţ		<del></del>	
	More Crickets	1 qt. per scre	Apply to plant beds or helds 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Mole Crickets Wireworms	1 qt. per scre 3-4 qts. per scre	of seed or transplanting and immediately incor-
			of seed or transplanting and immediately incor- porate into the top 1-2 inches of soil.  Broadcast just before planting and immediately
	Wireworms Aphids. Flee Beatles.	3-4 qts. per acre	of seed or transplanting and immediately incor- porate into the top 1-2 inches of soil.  Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.  Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 3

Rate

Crop

Pest

Timing/Special Directions

Сгор	Post	Rate	Timing/+pecial Directions
Spinach	Cutworms	2-4 qts. per acre	Broadca it just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wreworms	3-4 qts. per ecre	Broadcast just before planting and immediately incorporate into the top 4-6 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,
	i	}	Do not apply within 14 days of harvest
			Note: Diaznon will not control organophosphate- residant lealminers.
Squash, Summer	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil incorporation Note.)
	<b>Живионта</b> •	3-4 cts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers, Thinps,	V2-1V2 pts. per acre	Apply as ineacts occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Singed Cucumber Beetles, Melonworms,		Do not apply within 7 days of hervest or illegat residues may occur.
	Leathoppers, Spider Mites		Note: Diazinon will not control organophosphale- resistant leafminers.
Squash Winter	Cutworms	2-4 qts per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil
	Aphids, Serpentine Lealminers, Thinps,	V <sub>2-1</sub> V <sub>2</sub> pts. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
i	Striped Cucumber Beetles, Melonworms,		Do not apply within 3 days of harvest or illegal residues may occur.
	Leafhoppers, Spider Mites		Note: Diazinon will not control organophosphate- resistant leatminers.
Sweet Carn	Cutworms	2-4 qts. per acre	Broadcast just before plenting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Seed Corn Maggots	2-4 qts per acre	Broadcast just before plenting and immediately incorporate into the top 2 inches of soil
	Wireworms	3-4 cts per acre	Broadcast before planting and immediately incor- porate into the top 4-8 inches of soil
	Corn Earworms	1-1 ¼ qts. per acre	Apply when sike first appear. Repeat application every 7 days if necessary. Do not make more than 5 applications per season.
	Corn Rootworm (Adults)	V <sub>2</sub> -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 Aprilds	1-2 pts. per acre	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repea application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Grassnoppers, Spider Mites, Flea Beetles	1 pt. per acre	Apply as insects occur. Repet' application, as necessary, every 7 days. Do not make more than 5 applications per season,
	Sap Beetles	2-21/2 pts. per scre	Consult local agricultural authorities for proper timing of sorays. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

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

Сгор	Post	Rate	Timing/Special Directions
Sweet Potatoes	Wireworms. Flea Bestles	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil
Swiss Chard	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids. Imported Cabbageworms,	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.
	Diamondback Moths. Hariequin bugs		Do not apply within 14 days of hervest or illegal residues may occur.
Tomatoes	Curworms	2-4 qts. per ecre	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 scre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	V <sub>2</sub> pt per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Banded Cucumber Beetles. Fall Armyworms Southern Armyworms. Beet Armyworms	No.1 pt per acre	Do not apply within one day of harvest or illegat residues may occur.  Note: Diazinon will not control organophosphate-resistant leafminers.
	Vinegar Flies (Drosophile spp.)	½-1½ pts. per acre	
furnips Roots and Tops	Cutworms	2-4 qts per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 q1 per scre	Aboty to prant 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
	Abhids Fles Beetles Dipterous Leatminers	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.
			Note: Diazinon will not control organophosphate- resistant leafminers

# Field Crops

Soil and foliar applications of DIASOL. 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-Hervest Interval (PHI\*) For Foller Applications

Сгор	PHI* (Days)
Hops	14
Sugar Beets	14

<sup>\*</sup>PHL = Pre-Harvest Interval or the number of days between the last application and harvest

Сгор	Post	Rate	Timing/Special Directions
Hops	Aphids, Spider Mites	1 qt. per scre	Apply as perts occur. Repeat application, as necessary, every 14 days. Do not make more than 4 applications per season.
		İ	Do not apply within 14 days of hervest.
Sugar Beets	Wireworms	3-4 qts. per acre	Broadcast just before planting, incorporate into soil 4-6 inches.
	[		Do not apply more than < qts. of this product to the soil, per season.
	Beet Leathoppers, Dipterous Leatminers, Aphids	¥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 lesimmers.
	Grasshoppers	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per sesson.
			Do not apply within 14 days of harvest.

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

#### Grassland insects

#### Ditch Banks, Roadsides, Westeland, Noncrop Areas, Barrier Stripe

Grasshoppers. Spray ¾-1 pt. per acre in water (minimum of 1 gat, of water per acre) for sensi applications or a minimum of 5 gats, of water per acre for ground applications or in oil raiminimum of 1 gat, of oil per acre) when insects first appear preferably in the hymphat 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 Arboi vitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir Elm, Gladioli, Hawthorn, Holly, Juniper, Lilac, Locust, Maple Oak, Pine, Ornamemal 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 DIASOL AG500 to Use	
	Rate Per 3 Gala, Water	Rate Per 100 Gals, Water
Adhids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dioterous Lealminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Cmnivorous Leaftiers, Privet Mites, Scale Crawlers (Cottonycushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mites, Juniper Webworms, Whiteflies	½ fl. oz *	1 pt **
Apple-and-Thom Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hamlock Chermes, Oak Loophis, Obliquebanded Leafroiters, Pear Slugs, Tent Caterpillars	1½ fl oz *	J pts **

<sup>\*1</sup> ft oz = 2 tablespoons

Precaution: Do not use on Ferns, Poinsette, Hibiscus, Papeye, Pilee, and Gardenie, since shury to the plants may occur. Mimose Webworms: Mix ½ fl. oz. in 3 gais, of water (or 1 pt. in 100 gais, of water) and apply as a thorough foliar apray when adults first appear. Make a second and third application at 4-5 week intervals.

# Lawn Peet Control (Excluding Golf Courses and Sod Ferms)

Precausons: Birds, especially waterlowl, feeding or d'inking on areased areas may be fulled. Apply this product only as specified on this label, Because of the migratory habits of certain weiterlowl, do not apply in Nessau County, New York between Hovember 1 and May 20. Do not especial maximum permitted label rates, since rates above those recommended significantly incides potential hazards to birds, especially waterfowl. Avoid overlapping 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 ¼ inch water immediately after application, however, stop watering pefore sudding occurs.

<sup>\*\* 16</sup> ft oz. = 1 pint

### To control pesis listed below, apply recommenced rates.

	Rete/1000 sq. ft.		
Pest	DIASOL AGSOO	Weter	Remarks
Lawn Chinch Bugs	2-3 fl. cz.	3 gals.	Use higher rate for longer residual control and in lewns of dense growth such as St. Augustine lawns.
Ants, Armyworms, Bermudagrass Mres, Clover Mites, Crickets, Cutworms, Digger Wesos, Earwigs, Frit Flies, Lawn Billbugs, Leathoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs), Springtails (Collembole)	2-3 ft. oz.	3 gais.	Spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk when wasps are not active.
			For first flies, mow grass and water well before treatment, but delay application until grass is dry.
			For billbug control, apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.
Brown Dog Ticks, Chiggers, Fleas			Note: Do not apply to enimals.
	3 fl. oz.	3 gals.	For brown dog ticks, spray grass and under shrubbery, particularly near house.
Hyperoces Weenis	3 fl. oz.	3 gals.	Treat problem areas in mid-April and again in mid-May
Millipedes	3 ff. 02	3 gais	
Rhodesgrass Scales	3 fl. oz	3 gals	Apply when crawlers first emerge
White Grubs (such as Japanese Beelle Larvae. European Chaler, Southern Chaler)	3 fl. oz	3 gars.	Apply any time between late July and early October

### Nutsance Pests in Outside Areas

Ants Boxeider Bugs, Brown Oog Ticks, Chiggers: Clover Mites, Cockroacties, Crickets, Earwigs, Fleas, Flies, Millipedes Sowbugs (Pillbugs), Spiders, Spingtaits (Collembole)

Mix 3 fl. oz. in 3 gais, of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls emranceways, welks, garbage cans, free trunks, and into cracks and other places where insects can hide. To prevent entry into houses, spray a five-loot band of soil around the house next to the foundation and spray the foundation of the house to a height of 2-3 feet. Repeat application as necessary. Do not apply to animals. Do not treat plants (other than tree trunks) at this nuisance peet rate.