



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Cynthia Huffman
Southern Agricultural Insecticides, Inc.
P.O. Box 218
Palmetto, FL 34220

NOV 27 2001

Dear Ms. Huffman:

Subject: Amendment - Comply with 2000 Diazinon MOA;
Delete Beans, Cucumbers, Parsley,
Parsnips, Peas, Peppers, Potatoes,
Summer Squash, Winter Squash, Swiss Chard,
Turnips, Grassland Insects (Ditch Banks,
Roadsides, Wasteland, Non-crop Areas and
Barrier Strips), Lawn Pest Control, and
Band Treatment around house foundation;
Update First Aid per PR Notice 2001-1; and
Update CSF/replacement diazinon sources
Diazinon AG 500 Insecticide
EPA Registration Number 829-262
Your submission dated June 26, 2001
and CSF dated July 12, 2001

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

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Under the heading Hazards to HUMANS AND DOMESTIC ANIMALS, correct the signal word to CAUTION.
 - b. Under the heading ENVIRONMENTAL HAZARDS, delete the sentence beginning "Because of the migratory habits..." and "On lawns, if waterfowl....". You have deleted the use on lawns from this product's label.
 - c. In the **First Aid** section, add an **If Inhaled** section as follows:

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

- d. Under the heading GENERAL INFORMATION, revise "Do not use on food crops grown in greenhouses." to read "Do not apply this product in greenhouses."
 - e. Under the heading VEGETABLE CROPS, in the sentence beginning "For the following crops use a Minimum of 10 Gals./Acre...", delete "Beans (Lima, Pole, and Snap - succulent only)" and "Peas (succulent only)". You have deleted those crops from your label.
 - f. Also under the heading VEGETABLE CROPS, revise "Do not apply to food crops grown in greenhouses." to read "Do not apply this product in greenhouses."
 - g. Add a horizontal line above the crop entry for Chinese Radish to separate this from the previous entries.
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

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

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

The Basic Confidential Statement of Formula (CSF) dated July 12, 2001 which identifies a replacement diazinon source Manufacturing Use Product is acceptable and has been added to this product's registration file.

Sincerely,

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

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REVISED LABEL

RESTRICTED USE PESTICIDE
DUE TO AVIAN AND AQUATIC TOXICITY, FOR RETAIL SALE TO AND USE BY CERTIFIED APPLICATORS AND PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATORS CERTIFICATION.



**DIAZINON AG 500
INSECTICIDE**

FOR THE CONTROL OF CERTAIN INSECTS ON FRUITS,
VEGETABLES, FIELD CROPS, AND ORNAMENTALS GROWN
OUTDOORS IN NURSERIES
THIS PRODUCT MUST NOT BE USED ON
GOLF COURSES AND SOD FARMS.

ACTIVE INGREDIENT:

DIAZINON:	
0,0-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate.....	47.5%
Inert Ingredients:*	52.5%
Total:	100.0%

Diazinon AG500 contains 4 lbs. diazinon per gallon. *Contains xylene range aromatic solvent.

**KEEP OUT OF REACH OF CHILDREN.
CAUTION**

Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)
See inside of booklet for additional Precautionary Statements, and Statement of Practical Treatment.

Southern Agricultural Insecticides, Inc.
Palmetto, FL 34220 Hendersonville, NC 28793 Boone, NC 28607
E.P.A. Reg. No. 829-262 J5 E.P.A. Est. No. 829-FL-1 (1)

**ACCEPTED
with COMMENTS
In EPA Letter Dated:
NOV 27 2001**
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
829-262

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

WARNING: 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.

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. 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.

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, or Viton > 14 mils. 3. Shoes plus socks.

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.

ENGINEERING CONTROL 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. On lawns, if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot 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 washwaters.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL AND CHEMICAL HAZARDS:

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

FIRST AID

This product contains diazinon, an organophosphate insecticide that inhibits cholinesterase.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **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. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378. Have product container or label with you when calling a poison control center or doctor or going for treatment.

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.

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 Southern Agricultural Insecticides, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Southern Agricultural Insecticides, Inc. warrants that this product conforms to the chemical description of the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Southern Agricultural Insecticides, Inc. makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. In no case shall Southern Agricultural Insecticides, Inc. or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Southern Agricultural Insecticides, Inc. 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 Southern Agricultural Insecticides, Inc.

GENERAL INFORMATION

SA-50 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.

Reformulation or repackaging of this product is prohibited.

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.

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard, and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, chemical resistant gloves such as barrier laminate, butyl rubber >14 mils, nitrile rubber >14 mils, and Viton >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.

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 SA-50 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 First Aid section of this label.

Not for use or sale in California. Do not apply this product through any type of irrigation system.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
PESTICIDE DISPOSAL: 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 instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL: 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.

FIELD CROPS (REI-24 HOURS)

Soil and foliar applications of SA-50 diazinon AG500 should always be applied as a spray in sufficient water to ensure thorough coverage. For foliar applications, observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season.

Pre-Harvest Intervals (PHI*) for Foliar Applications - number in parenthesis with the crop is the Crop PHI* (Days).
*PHI = Pre-Harvest Interval or the number of days to wait between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Hops (PHI-14)	Aphids,	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.
	Spider Mites		
Sugar Beets (PHI-14)	Wireworms	3-4 qts. per acre	Broadcast just before planting. Incorporate into soil 4-6 inches. Do not apply more than 4 qts. of this product to the soil, per season.
	Beet Leafhoppers,	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 leafminers.
	Dipterous Leafminers,		
	Aphids		
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: Sugar beet tops may be fed to beef and dairy animals.	

FRUIT CROPS (REI - 24 HOURS)

SA-50 Diazinon AG500 may be applied using ground or aerial application equipment as specified in the following table. This table indicates the minimum amount of water that can be used for the various methods of application. The rate of SA-50 Diazinon AG500 for aerial spray or concentrated spray applied to fruit trees by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at 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 SA-50 Diazinon AG500 per 100 gals. of water, this amounts to 3-4 pts. of product per acre when applied at the usual dilute ground spray volumes of 300-400 Gals. 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.

Minimum gallons per acre for listed crops:

For Aerial Applications apply the specified rate in a minimum of 20 gallons per acre.

For Ground Applications apply the specified rate in a minimum of 100 gallons per acre for dilute applications and 20 gallons per acre for concentrate applications.

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.

Pre-Harvest Intervals are in parenthesis listed with each crop as listed below (PHI =)

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

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	Rate	Timing/Special Directions
Apricots (PHI=21)	Aphids,	1 pt. in 100 gals. of water	Apply as infestations occur.
	Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers		Repeat application after 14 days if necessary.
	Olive Scale Crawlers	1/2 pt. + 1 1/2 gals. of light medium horticultural oil per 100 gals. of water	Apply when scale crawlers are present.
	Apricot Mealybugs	1 pt. per 100 gals. of water	Apply as a cover spray from petal fall to June. Allow 14 days between applications.

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

Caneberries (OR and WA only): Blackberries, Boysenberries Dewberries, Loganberries, Raspberries	Leafhoppers, Thrips, Aphids, 14 days if necessary.		1 qt. per acre Apply as insects occur. Repeat application after 14 days if necessary.
	Two-Spotted Spider Mites Raspberry Fruitworms Raspberry Sawflies		Apply in a minimum of 100 gals. of water per acre (200 gals. per acre max). For Raspberry-Fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mites	1 - 2 qts. per acre	Apply as a dormant sprya in the early Spring when canes are still on the ground and buds are closed. Make a second application when buds are well devel oped but still closed. Apply in a minimum of 100 gals. of water per acre. Do not apply within 7 days of harvest or illegal residues may occur.
	Raspberry Crown Borers (Raspberry Root Borers)	2 qts. per acre	Apply a single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the Spring before buds break.

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

Cherries (PHI=21)	Eyespotted Bud Moths, Fruit Tree Leafrollers	1 pt. in 100 gals. of water	Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.
	Leafhoppers	1 pt. in 100 gals. of water	Make 3 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.
	Cherry Fruitflies	1/2 - 1 pt. in 100 gals. of water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals.
	Black Cherry Aphids	1 pt. in 100 gals. of water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.
	San Jose Scale Crawlers Cherry Rust Mites	1 pt. in 100 gals. of water 1/2-1 pt. in 100 gal. of water	Apply during the pre-pink stage or when crawlers first appear. Apply to trees as a single supplemental spray after harvest.

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.

Grapes (PHI=28)	Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafrollers, Omnivorous Leafrollers, Aphids, Spider Mites	1-2 pts. per acre in a minimum of 100 gals. of water	Apply as a thorough cover spray when pests occur. Repeat application after 7 days, if necessary.
	Drosophila spp	6 fl. oz. per acre in a minimum of 100 gals. of water (300 gals. of water maximum)	Apply as pest occurs as a thorough cover spray. Repeat application after 7 days, if necessary.

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

Nectarines (PHI=21)	Oriental Fruit Moths	1 pt. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight.
	Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.

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

Crop	Pest	Rate	Timing/Special Directions
Peaches (PHI=21)	Aphids,	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers Oriental Fruit Moths	1 pt. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight.
	Peach Twig Borers	1 pt. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between applications.
	Leafhoppers	1 pt. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications.
	White Peach Scale	1 1/2 - 2 pts. in 100 gals. of water	Apply post-harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation 2 applications (7 days apart) may be needed. Do not apply before fruit is harvested.

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

Plums, Prunes (PHI=21)	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 gl. of water	

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

Strawberries (PHI=5)	Aphids, Two-Spotted Spider Mites	1 pt. in 100 gals. of water per acre	Apply as pests occur. Repeat application if necessary after 7 days.
	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.
	Mole Crickets	1 qt. per acre	1-2 days before planting broadcast in sufficient water to obtain even coverage and immediately incorporate into the top 1-2 inches of soil.
	Strawberry Leafrollers	3/4-1 pt. in 100 gl. of water	Apply 200 gals. of spray per acre when blossoms show color.

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

VEGETABLE CROPS (REI-24 HOURS)

For foliar or soil applications, SA-50 Diazinon AG500 should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. SA-50 Diazinon AG500 may be applied using ground or aerial application equipment as specified in the following table. This table indicates the minimum amount of water that can be used for the various methods of application. The specific amount of product to be used appears under the separate directions for use for each crop.

Minimum gallons per acre for listed crops: Aerial Application Minimum for all listed vegetable crops is 5 gallons per Acre.
Ground Application Minimums:

For the following crops use a Minimum of 5 Gals./Acre (for small area applications use 1 Gallon/1,000 Sq. Ft.): Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and Watermelons.

For the following crops use a Minimum of 10 Gals./Acre (for small area applications use 2 Gals./1,000 Sq. Ft.): Beans (Lima, Pole, and Snap - succulent only), Beets, Red (Table), Broccoli, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Chinese Broccoli, Chinese Cabbage, Chinese Mustard, Chinese Radish (FL only), Collards, Endive (Escarole), Ginseng, Kale, Lettuce (Head and Leaf), Mustard, Onions (Bulb and Green), Peas (succulent only), Radishes, Spinach, and Tomatoes.

For Sweet Corn use a Minimum of 20 Gals./Acre (for small area applications use a minimum of 4 Gals./1,000 Sq. Ft.).

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 - number in parenthesis with the crop is the Crop PHI (Days)

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

Notes: (1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see Timing/Special Directions) using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of surface cutworms, incorporate 2-3 inches, for subterranean cutworms incorporate 3 - 6 inches. (2) To Protect Bees: Foliar applications of this product should not be made corn during the pollen shed period.

Crop	Pest	Rate	Timing/Special Directions
Beets, Red (Table) (PHI=14)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Dipterous Leafminers	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 remain. Note: Diazinon will not control organophosphate-resistant leafminers.
Broccoli Cauliflower (PHI=7) Cabbage (PHI=21)	Root Maggots	2-3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2 - 1 cup (4 to 8 oz) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2 - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest, or illegal residues may remain. Note: Diazinon will not control organophosphate-resistant leafminers.
Brussels Sprouts(PHI=7)	Root Maggots	2-3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2 - 1 cup (4 to 8 oz) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Carrots (PHI=14)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur.
Chinese Broccoli Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2 - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant Leafminers.
	Chinese Mustard (Gai Choy) (PHI=10)		
Chinese Radish (Japanese Radish or Daikon) (FL only) (PHI=10)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1 pt. per acre	Mix in a minimum of 100 gals. of water per acre and apply as a foliar spray as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 3 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
	Collards, Mustard (PHI=10)	Cutworms	2-4 qts. per acre
Mole Crickets		1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
Wireworms		3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Aphids, Diamondback Moths, Imported Cabbageworms, Melonworms		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.
Endive (Escarole)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Lettuce Spinach (PHI=14)	Mole Crickets	1 qt. per acre
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate-resistant leafminers.
Ginseng (PHI=30)	Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice	3/4 - 1 pt. per acre	Spray when insects first appear. For heavy insect infestations, use 1 pt. per acre. Apply by ground equipment using 10 to 100 gals. of water per acre. Do not apply more than one application per growing season. Do not apply during flowering of three or four year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.
Kale (PHI=10)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	One or two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Bugs	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.

Crop	Pest	Rate	Timing/Special Directions
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, and Hybrids of these) and Watermelons (PHI=3)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms,	1/2-1 1/2 pts. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant onion maggots.
	Spider Mites	Leafhoppers.	
Onions (Bulb and Green) (PHI=14)	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 leafminers.
	Onion Thrips	1 pt. per acre	Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Radishes, (PHI=14)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	One or two days before planting broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	1/2 - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 3 applications on Radishes per season. Do not apply within 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Sweet Corn (PHI=7)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation 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 incorp. into the top 4-8 inches of soil.
	Corn Earworms	1-1 1/4 qts. per acre	Apply when silks first appear. Repeat application every 7 days if necessary. Do not make more than 5 applications per season.
	Corn Rootworm (Adults)	1/2 - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Corn Leaf Aphids	1-2 pts. per acre	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Grasshoppers, Spider Mites, Flea Beetles	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Sap Beetles	2-2 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.
Notes: (1) To protect bees, do not apply to corn during the pollen shed period. (2) Allow 7 days after the last application before grazing or cutting for forage. Forage may be fed to beef and dairy cattle and sheep. (3) Corn may be picked 7 days after the last application.			
Tomatoes (PHI=1)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	One or two days before planting broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 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 one day of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	3/4-1 pt. per acre	
	Vinegar Flies (Drosophila spp.)	1/2-1 1/2 pts. per acre	

ORNAMENTALS GROWN OUTDOORS IN NURSERIES (REI = 12 HOURS)

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

Note: do not use on Ferns, Poinsettia, Hibiscus, Papaya, Plea, and Gardenia, since injury to the plants may occur.

INSECTS CONTROLLED	Amount of Diazinon AG500 to Use for	
	3 gals. water	100 gals. water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leafhoppers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-Spotted Spider Mites, Juniper Webworms, Whiteflies.	1/2 fl. oz. (1 tablespoon)	1 pint
Apple-and-Thorn Skeletonizers, Coleeaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent caterpillars	1 1/2 fl. oz. (3 tablespoons)	3 pints

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