

BEST IMAGE AVAILABLE

JAN 16 1998

Mr. John C. Diem
Southern Agricultural Insecticides, Inc.
P.O. Box 218
Palmeto, FL 34220

Dear Mr. Diem:

Subject: Amendment - Comply with Agency letter dated
November 22, 1996 regarding Cranberries
Diazinon AG 500
EPA Registration Number 829-262
Your submission dated February 25, 1997

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) Based upon toxicology data from Novartis, the correct signal word for this product is CAUTION. Please revise the signal word on the front panel of the bottle and the booklet, as well as under the heading Hazards to Humans & Domestic Animals, accordingly.
 - b) On both the bottle and booklet labels, in the Environmental Hazards text, revise the beginning of the sentence "If waterfowl, i.e., ducks or geese, can be..." to read "On lawns, if waterfowl (ducks or geese) can be..."
 - c) On the bottle label, under "SEE ATTACHED BOOKLET FOR SPECIFIC DIRECTIONS FOR USE" add "Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170."

- d) Under the heading Fruits and Nuts, in the definition of PHI add "to wait" between "days" and "between".
- e) For Caneberries, in the Crop column add a colon after "CA only)".
- f) Also for Caneberries, in the Timing/Special Directions for Leafhoppers, delete "Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.". In the Timing/Special Directions for Dryberry Mites, delete "Do not apply within 7 days of harvest or illegal residues may occur.". Then add a Notes section for Caneberries as follows:

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

- g) For Cherries, in the Timing/Special Directions for Leafhoppers, revise "Make 3-4 applications" to "Make 3 applications". In the Notes for this crop, delete item 1, which contradicts the directions for cherry fruitflies, and renumber the remaining items as 1 and 2 instead of 2 and 3.
- h) For Grapes, revise the first sentence of both the Timing/Special Directions entries to read "Apply as a thorough cover spray when pests occur."
- i) For Strawberries, replace the Timing/Special Directions for Aphids and Two-Spotted Spider Mites with the following:

Apply as pests occur. Repeat application, if necessary, after 7 days.

- j) For Strawberries, in the Timing/Special Directions for Cyclamen Mites, delete "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 harvest."
- k) For Strawberries, replace the Timing/Special Directions for Mole Crickets with the following:

One to two days before planting, broadcast in sufficient water to obtain even coverage and immediately incorporate into the top 1-2 inches of soil.

l) For Strawberries, in the Timing/Special Directions for Strawberry Leafrollers, delete "Do not apply within 5 days of harvest or illegal residues may occur."

m) For Strawberries, add a Notes section as follows:

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.

n) Under the heading Vegetable Crops, in definition of PHI add "to wait" between "days" and "between".

o) For the crop Beans, delete the horizontal line in the Timing/Special Directions column between the sentences "Do not apply within 7 days of harvest or illegal residues may occur." and "Bean forage or bean hay may be fed to dairy and beef cattle and sheep. [Note addition of "and" before "sheep" in this revised sentence.]

p) Throughout the Vegetable Crops specific directions, for every entry for control of Mole Crickets, revise the Timing/Special Directions for this pest to read as follows:

One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.

q) Throughout the Vegetable Crops specific directions, for every entry for control of Root Maggots, revise the Timing/Special Directions for this pest to read as follows:

Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.

r) For Chinese Broccoli, Chinese Cabbage, and Chinese Mustard add "leafminers." after "organophosphate-resistant".

s) For Sweet Potatoes, delete the pest Flea Beetles, this foliar pest will not be controlled by a pre-plant application.

t) Under the heading Field Crops, in definition of PHI add "to wait" between "days" and "between". Also, revise the Note for the crop Sugar Beets to read "Sugar beet tops may be fed to beef and dairy animals."

u) For Grasslands Insects, relocate the closing parenthesis

mark ")" from after "of water per acre" to appear after "for ground applications".

- v) Under the heading Insect Control on Ornamentals, add "Spray when listed pests first appear." after "...rates indicated below.". Add "Repeat as necessary." after "...dense foliage.". Also, relocate the Precaution about potential injury to certain plants up to appear as a separate paragraph directly after "Repeat as necessary.".
- w) In the Lawn Pest Control Precautions, revise "If waterfowl, i.e., ducks, geese can be" to "If waterfowl (ducks or geese) can be" and revise "0.25 inch water" to "1/4 inch of water" in this same sentence.
- x) Revise the Remarks for Frit Flies to read "For frit flies, before treatment mow grass and water well, but delay application until grass is dry.".

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.

Sincerely,

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

(Front panel of label on bottle)



RESTRICTED USE PESTICIDE
DUE TO AERIAL 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 APPLICATOR'S CERTIFICATION.

DIAZINON AG 500 INSECTICIDE

**FOR THE CONTROL OF CERTAIN INSECTS ON
FRUITS, NUTS, VEGETABLES, FIELD CROPS, LAWNS AND ORNAMENTALS
THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOG FARMS.**

ACTIVE INGREDIENT:

DIAZINON: O,O-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.
WARNING/AVISO**

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 side panels 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 J4 E.P.A. Est. No. 829-FL-1

Net Contents Liquid: 1 Gallon (3.785 liters)

ACCEPTED
with COMMENTS
by EPA Letter Dated

JAN 16 1998

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

829-262

(label on bottle - left panel)

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 washing, 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. 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 areas.

PHYSICAL AND CHEMICAL HAZARDS:

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

(label on bottle - right panel)

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. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. **IF ON SKIN:** Wash promptly with soap and water. Rinse thoroughly. Get medical attention. **IF IN EYES:** Rinse eyes with plenty of water. Call a physician if irritation persists. **NOTE TO PHYSICIAN:** If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if product was taken externally.

DIRECTIONS FOR USE

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

SEE ATTACHED BOOKLET FOR SPECIFIC DIRECTIONS FOR USE.

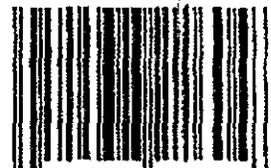
Do not apply this product through any type of irrigation system.

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.



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BOOKLET

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.



50. **DIAZINON**
AG 500
INSECTICIDE

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

ACTIVE INGREDIENT:
 DIAZINON, O,O-Dimethyl 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. WARNING/AVISO

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.)

Southern Agricultural Insecticides, Inc.
 Palmetto, FL 34220 Hendersonville, NC 28793 Boone, NC 28607
 E.P.A. Reg. No. 829-262 J4 E.P.A. Est. No. 829-FL-1

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 comatose. IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. IF ON SKIN: Wash promptly with soap and water. Rinse thoroughly. Get medical attention. IF IN EYES: Rinse eyes with plenty of water. Call a physician if irritation persists. NOTE TO PHYSICIAN: If symptoms of cholinesterase inhibition are present atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

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 in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping of sprays. If waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), 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.

BOOKLET

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 its 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 stables. 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. 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 Danner 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 the 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 Practical Treatment section of this label.

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

BOOKLET

FRUIT AND NUT 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 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 (CA, OR and WA only)	Leafhoppers, Thrips, Aphids, Two-Spotted 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. 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.
	Raspberry Fruitworms Raspberry Sawflies		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 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 trench to the crown and lower canes in the Spring before buds break.
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 3-4 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	1 pt. in 100 gals. of water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mites	1/2-1 pt. in 100 gals. of water	Apply to trees as a single supplemental spray after harvest.

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

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 pest occurs as a thorough cover spray. 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.

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BOOKLET

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	
	Peach Twig Borers	1 pt. in 100 gals. of water	
	Leafhoppers	1 pt. in 100 gals. of water	
	White Peach Scale	1 1/2 - 2 pts. 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. Apply as insects occur in May and June. Allow 7 days between applications. Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications. 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.
	Leafy Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 pt. in 100 gals. of water	

Notes: (1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. (2) 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 every 7 days, but do not make more than 3 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.
	Cyclamen Mites	1 qt. in 100 gals. of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat application after 7 days if necessary. Do not make more than 3 foliar applications per season. Do not apply within 5 days of harvest or illegal residues may occur. Application may be made to plants after harvest.
	Mole Crickets	1 qt. per acre	Broadcast in sufficient water to obtain even coverage when insects are present. Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
	Strawberry Leafrollers	3/4-1 pt. in 100 gals. of water	Apply 200 gals. of spray per acre when blossoms show color. Do not apply within 5 days of harvest or illegal residues may occur.

BOOKLET

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, Cabbages, Crenshaws, Cucumbers, Honeydew Melons, Muskmelons, Persian Melons, Squash (Summer and Winter), 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 (CA, FL only), Collards, Endive (Escarole), Ginseng, Kale, Lettuce (Head and Leaf), Mustard, Onions (Bulb and Green), Parsley, Parsnips, Peas (succulent only), Peppers, Potatoes (Irish)*, Radishes, Spinach, Sweet Potatoes, Swiss Chard, Tomatoes, and Turnips.

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

Do not use on commercially grown potatoes which will be hand-harvested. Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season.

Do not apply to food crops grown in greenhouses.

Pre-Harvest Intervals (PHI*) for Foliar Applications - number in parenthesis with the crop is the Crop PHI* (Days).

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

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

Crop	Pest	Rate	Timing/Special Directions
Beans (Lima, Pole, and Snap) (succulent only) (PHI=7)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4"- 8" inches of soil.
	Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers	1-1 1/2 pts. per acre	Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest, or illegal residues may occur.
	Cucumber Beetles (foliar spray)	3/4 pt. per acre	Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. Make cucumber beetle application in 100 gals. of water per acre.

Notes: (1) Diazinon will not control organophosphate-resistant leafminers

(2) To protect bees, do not apply foliarly if the crop or weeds in the treatment areas are in bloom

Beans, Lima (succulent only) (PHI=7)	Leathoppers,	1 pt. per acre	Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest, or illegal residues may occur.
	Spider Mites (foliar spray)		Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. Note: To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.
Beets, Red (Table) (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	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.
	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 occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Broccoli Cauliflower (PHI=7)	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		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.
Cabbage (PHI=21)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, 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 occur. Note: Diazinon will not control organophosphate-resistant leafminers.

12 7/16

BOOKLET

Crop	Pest	Rate	Timing/Special Directions
Brussel Sprouts (PHI=7)	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		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	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.
Carrots (PHI=14)	Aphids, Diamondback 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. Do not apply within listed Pre-Harvest Interval, or illegal residues may occur.
	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Chinese Broccoli Chinese Cabbage (Bok Choy and Napa)	Aphids	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.
	Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers		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
Chinese Mustard (Gal Choy) (PHI=10)			
Chinese Radish (Japanese Radish or Daikon) (FL and CA 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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms	1/2 - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest, or illegal residues may occur.
Cucumbers (PHI=7)	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 Leafminers, Thrips, Striped Cucumber Beetles, Melonworms	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
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	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 - 1 pt. per acre	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.

BOOKLET

Crop	Pest	Rate	Timing/Special Directions
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 third or four year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.
	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
Kale (PHI=10) Swiss Chard (PHI=14)	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Bugs	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.
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, Leafhoppers, Spider Mites	1/2 - 1 1/2 pts. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant onion maggots.
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.
Parsley	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.
Parsnips (PHI=14)	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
	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.
Peas (succulent only) (PHI=7)	Aphids, Dipterous Leafminers	3/4 - 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.
	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.
To avoid illegal residues, allow a minimum of 7 days between the last application and harvest. Vines and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 7 days following treatment if forage is to be cut for hay.			
Notes: (1) Diazinon will not control organophosphate-resistant leafminers.			
(2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.			
Peppers (PHI=5)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers	1/2-1 pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 5 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Potatoes (PHI=35)	Cutworms (Surface and Subterranean)	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.
	Southern Potato Wireworms (Southeastern U.S.)	2-4 qts. per acre	For potatoes grown on mineral soils in the Southeast, apply before planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.
	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	1/2 - 3/4 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 35 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
	Banded Cucumber Beetles, Leafhoppers, Southern Armyworms	3/4 - 1 pt. per acre	Apply as insects occur. Repeat application as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 35 days of harvest, or illegal residues may occur.

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

BOOKLET

Crop	Pest	Rate	Timing/Special Directions
Radishes, Turnips (Roots and Tops) (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	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, 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 or 5 applications on Turnips per season. Do not apply within 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Summer Squash (PHI=7)	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.
Winter Squash (PHI=3)	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	1/2 - 1 1/2 pts. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within the listed PHI, or illegal residues may occur. Diazinon will not control organophosphate-resistant leafminers.
	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
Sweet Corn (PHI=7)	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 incorporate 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 Sap 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.
			2-2 1/2 pts. per acre
Notes: (1) To protect bees, do not apply foliarly to corn during the pollen shed period. (2) Allow 7 days after the last application before grazing or cutting for forage. Forage may be fed to beef and dairy cattle and sheep. (3) Corn may be picked 7 days after the last application.			
Sweet Potatoes	Wireworms, Flea Beetles	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
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	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 pt. per acre	Apply as insects 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 Vinegar Flies (Drosophila spp.)	3/4-1 pt. per acre	1/2 - 1 1/2 pts. per acre

BOOKLET

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 between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Hops (PHI=14)	Aphids, Spider Mites	1 qt. per acre	Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 4 applications per season. Do not apply within 14 days of harvest.
Sugar Beets (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, Dipterous Leafminers, Aphids	3/4-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate-resistant leafminers.
	Grasshoppers	1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest.

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

GRASSLAND INSECTS

Ditch Banks, Roadsides, Wasteland, Noncrop Areas, Barrie Strips:

Grasshoppers: Apply 3/4 - 1 pt. per acre in water (minimum of 1 gal. of water per acre) for aerial applications or a minimum of 5 gals. of water per acre for ground applications or in oil (a minimum of 1 gal. of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential. Do not graze or use treated grass for forage or feed.

ORNAMENTALS (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. Try to spray underside of leaves and penetrate dense foliage.

INSECTS CONTROLLED	Amount of Diazinon AG500 to Use	
	Rate per 3 gals. water	Rate per 100 gals. water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous 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, Cotoneaster Webworms, Fall Webworms, Hornlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent caterpillars	1 1/2 fl. oz. (3 tablespoons)	3 pints

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

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.

BOOKLET

LAWN PEST CONTROL (EXCLUDING GOLF COURSES and SOD FARMS)

To control pests, listed below, apply recommended rates. For control of Ants, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Springtails (Collembola), which are commonly found near the house and may enter the house, spray a 5-ft. band of soil around the house, as well as the house foundation wall to a height of 2 - 3 ft. Repeat application if necessary.

PRECAUTIONS: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds especially waterfowl. Avoid overlapping of sprays.

If waterfowl, i.e. ducks, geese can be expected to enter the treated area after treatment (except spot treatment), water lawn with at least 0.25 inch water immediately after application; however, stop watering before puddling occurs.

PESTS	Rate/1,000 sq. ft. SA-50 BRAND DIAZINON AG500	WATER	REMARKS
Lawn Chinch Bugs	2 - 3 fl. oz.	3 gals.	Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.
Ants, Armyworms, Clover Mites, Spring-tails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs	2 - 3 fl. oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For frit flies, mow grass and water well before treatment but delay application until grass is dry. For digger wasps, apply at dusk when wasps are not active. For hitbug control, apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect. For frit flies, mow grass and water well before treatment, but delay application until grass is dry.
Brown Dog Ticks, Chiggers, Fleas	3 fl. oz.	3 gals.	NOTE: Do not apply to animals. For Brown Dog Ticks, spray grass and under shrubbery, particularly near house.
Hyperodes Weevils	3 fl. oz.	3 gals.	Treat problem areas in mid-April and again in mid-May.
Millipedes	3 fl. oz.	3 gals.	
Rhodesgrass Scales	3 fl. oz.	3 gals.	Apply when crawlers first emerge
White Grubs (such as Japanese Beetle Larvae, European Chafer, Southern Chafer)	3 fl. oz.	3 gals.	Apply any time between late July and early October.

NUISANCE PESTS IN OUTSIDE AREAS

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

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

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.

Southern Agricultural Insecticides, Inc.

Palmetto, FL 34220 Hendersonville, NC 28793 Boone, NC 28607
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