

PM 15 Reg # 829-262

5380681

10/22

AUG 22 1990

Mr. Ronald Costa Rica
Southern Agricultural Insecticides, Inc.
P.O. Box 218
Palmetto, FL 34220

Subject: Amendments - Revise per Diazinon Registration Standard
and the Agency's May 1, 1990 Data Call-In letter
to reflect only those uses supported by Ciba-Geigy
SA-50 Brand Diazinon AG 500 Insecticide
EPA Reg. No. 829-262
Your submission dated June 7, 1990

Dear Mr. Costa Rica:

The amendments referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, are acceptable provided the following revisions are made prior to release for shipment under the amended labeling:

FOR THE CONTAINER LABEL:

- 1) Please note that the same type size requirements pertain to the heading RESTRICTED USE PESTICIDE as apply to the signal word WARNING.
- 2) In the ingredients statement, ACTIVE INGREDIENTS and INERT INGREDIENTS must appear in the same type size and style.
- 3) Revise the HAZARDS TO HUMANS AND DOMESTIC ANIMALS by adding the following at the end of that section:

For foliar application to agricultural crops whose culture involves hand labor, there is a 24 hour re-entry period (See Re-entry Statement).

Food utensils such as spoons or measuring cups must not be used for food purposes after use in measuring pesticides. Be sure to read and follow the "WORK SAFETY RULES" that appear in the attached booklet.

4) Make the following revisions to the ENVIRONMENTAL HAZARDS:

- a) Revise the sentence that begins "where irrigation (watering) is recommended..." to read "If waterfowl, i.e., ducks or geese, can be expected in the treatment area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying this product."
 - b) Revise the sentence that begins "Do not apply to water that will ..." to read "Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Drift and runoff may be hazardous to aquatic organisms in neighboring areas."
 - c) Following the sentence about shrimp and crab, add "Do not contaminate water by cleaning of equipment or disposal of equipment washwaters."
 - d) Revise the bee precautions to read as follows: "This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area."
- 5) In the Statement of Practical Treatment, delete "Repeat until vomit fluid is clear." from the "If swallowed" advice. Also, revise the last sentence of the "If swallowed" advice to read "Do not induce vomiting or give anything by mouth if person is unconscious or convulsing."

FOR THE BOOKLET LABEL:

- 1) All the handwritten revisions and deletions indicated on the submitted label must be incorporated in the finished label. Please ensure that the correct product name (as indicated above) appears on the labeling, including those places where it appears in the Directions for Use.
- 2) Please note that the same type size requirements pertain to the heading RESTRICTED USE PESTICIDE as apply to the signal word WARNING.
- 3) Revise the HAZARDS TO HUMANS AND DOMESTIC ANIMALS by adding the following at the end of that section:

For foliar application to agricultural crops whose culture involves hand labor, there is a 24 hour re-entry period (See Re-entry Statement).

Food utensils such as spoons or measuring cups must not be used for food purposes after use in measuring pesticides. Be sure to read and follow the "WORK SAFETY RULES" that appear in this booklet.

4) Make the following revisions to the ENVIRONMENTAL HAZARDS:

- a) Revise the sentence that begins "Where irrigation (watering) is recommended..." to read "If waterfowl, i.e., ducks or geese, can be expected in the treatment area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying this product."
 - b) Revise the sentence that begins "Do not apply to water that will ..." to read "Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Drift and runoff may be hazardous to aquatic organisms in neighboring areas."
 - c) Following the sentence about shrimp and crab, add "Do not contaminate water by cleaning of equipment or disposal of equipment washwaters."
 - d) Revise the bee precautions to read as follows: "This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area."
- 5) In the Statement of Practical Treatment, delete "Repeat until vomit fluid is clear." from the "If swallowed" advice. Also, revise the last sentence of the "If swallowed" advice to read "Do not induce vomiting or give anything by mouth if person is unconscious or convulsing."
- 6) Add the following to appear as the third paragraph under the heading DIRECTIONS FOR USE:

SA-50 Diazinon AG 500 Insecticide is an emulsifiable solution which, when diluted with according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Applications should be repeated only as directed to maintain control. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result. Do not use in barns or dwellings. Do not use on livestock. Do not use on food crops grown in greenhouses. This product may be applied aerially to head lettuce, tomatoes, peaches, nectarines, plums, prunes, cherries, apricots, almonds, and walnuts only.

- 7) Add the following to the end of the WORK SAFETY RULES: "When handling this product, wear the personal protective equipment listed in the following section."

8) Make the following revision to the RE-ENTRY STATEMENT:

- a) Since two different re-entry periods are appropriate, depending on the use pattern, revise the first paragraph to read:

Twenty four (24) hours must elapse between the time of application to vegetables, fruits, nuts, and field crops and the time a worker enters or is allowed to enter the treated area, unless the person entering the treated area is wearing the protective clothing listed above. For lawns, ornamentals, or noncrop areas, do not enter or allow entry into treated areas without personal protective equipment until sprays have dried.

- b) Revise the beginning of the fourth paragraph to read "For vegetables, fruit trees, or field crops, written or oral warnings must be ...".

- c) Add the following "Note" (which is referred to, but which was omitted):

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

- (9) In the gallonage table at the beginning of the FRUIT and NUT CROPS directions, increase the minimum gallons/acre for ground application to blackberries, boysenberries, dewberries, loganberries, and raspberries to 100 gallons (to agree with the directions for use on these same crops).
- (10) In the PHI/Number of Applications Permitted Per Season table for FRUIT and NUT CROPS, decrease the number of permitted applications for apricots to 5.
- (11) In the directions for use on cranberries, delete the Note referring to chemigation, since your container label specifies "Do not apply this product through any type of irrigation system."
- (12) In the directions for "Beans, Lima (succulent only)" add a Note as follows:

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

- (13) For the crop "Peas", revise the pest name "Leafminers" to "Dipterous Leafminers".
- (14) In the directions for "Nuisance Pests Outside the Home", delete "and ceilings" from "porch and patio walls and ceiling.". Such use, especially if applied to runoff, could result in pesticide "raining" down on the applicator. Conceivably, pesticide could drip down behind safety glasses and into eyes.

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised amended label prior to release for shipment under the amended label. NOTE: When preparing your label, do not print the quotation marks that appear around revised text items specified in this letter.

Please refer to the Diazinon Registration Standard, as amended, (or an Agency response to a requested time extension, if any) for release for shipment and channels of trade dates for diazinon products bearing appropriately amended labels.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (H7505C)



PIA 15 Reg # 829-262
CENTER PANEL
CONTAINER LABEL

ACCEPTED
with COMMENTS
in EPA Letter Dated:

AUG 22 1990

DIAZINON AG 500 INSECTICIDE

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

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

829-262

RESTRICTED USE PESTICIDE
Due to Avian and Aquatic Toxicity

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

FOR THE CONTROL OF CERTAIN INSECTS ON FRUITS, VEGETABLES, FIELD CROPS, LAWNS AND ORNAMENTALS

ACTIVE INGREDIENT:

DIAZINON: 0,0-Diethyl 0-(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**

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

See side panel for additional precautionary statements.

EPA EST. NO. 829-FL-1 (3), 829-NC-1 (4), 829-NC-2 (5) Number following Est. No. corresponds to first digit in Lot No. on side of label.

Southern Agricultural Insecticides, Inc.

Palmetto, FL 34220
EPA Reg. No. 829-262

Hendersonville, NC 28793
J2

Boone, NC 28607
Net Contents: 1 gallon liquid

LEFT PANEL

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

WARNING

May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Causes substantial but temporary eye damage. Do not get into eyes, or on skin, or on clothing. Wear goggles or safety glasses. May cause contact sensitization following repeated contact with skin in susceptible individuals. Avoid repeated contact with skin. If sensitization reactions result, consult a physician. Wash thoroughly after handling. Avoid contamination of food or feed. Keep out of reach of children and domestic animals. Do not use this product on humans, pets, or livestock. Do not permit children or pets onto a treated area until the treated area such as grass or soil has dried.

ENVIRONMENTAL HAZARDS

This product is toxic to birds, fish and wildlife including waterfowl. Birds and waterfowl feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product in Nassau County, New York between November 01 and May 20. Do not exceed maximum permitted label rates, as rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. Where irrigation (watering) is recommended apply a minimum of 0.25 inch of water immediately after application. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply to water that will be used for recreational purposes and human and livestock consumption. Shrimp and crab may be killed at application rates recommended on the label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency for information pertaining to areas having threatened endangered species. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

PHYSICAL AND CHEMICAL HAZARDS: Combustible liquid. Do not use, pour, spill or store near heat or open flame.

RIGHT PANEL

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician immediately. DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia as product contains petroleum distillates. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person. **IF INHALED:** Remove victim to fresh air and apply artificial respiration if indicated. **IF ON SKIN:** Wash promptly with soap and water. Rinse thoroughly. **IF IN EYES:** Flush eyes with plenty of water. Call a physician immediately.

NOTE TO PHYSICIAN: Solvent may present aspiration hazard. Gastric lavage may be indicated if product is fatal or internally. Diazinon is an organic phosphate 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.

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

RO INSECTICIDE LIQUID NOS (DIAZINON)
COMBUSTIBLE LIQUID NA 1993

LOT NO.

7 of 10

ACCEPTED
with COMMENTS
to EPA Letter Dated:

BOOKLET

AUG 22 1990

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

829-262

SFA
50.



**DIAZINON AG 500
INSECTICIDE**

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

RESTRICTED USE PESTICIDE

Due to Avian and Aquatic Toxicity

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

**FOR THE CONTROL OF CERTAIN INSECTS
ON FRUITS, VEGETABLES, FIELD CROPS,
LAWNS AND ORNAMENTALS**

ACTIVE INGREDIENT:

DIAZINON 0,0-Diethyl 0-(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

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

Southern Agricultural Insecticides, Inc.

Palmate, FL 34228 Hendersonville, NC 28753 Boone, NC 28607
EPA Reg. No. 829-262 JZ

7-11-50

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING

May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Causes substantial but temporary eye damage. Do not get into eyes or on skin or on clothing. Wear goggles or safety glasses. May cause contact sensitization following repeated contact with skin in susceptible individuals. Avoid repeated contact with skin. If sensitization reactions result, consult a physician. Wash thoroughly after handling. Avoid contamination of food or feed. Keep out of reach of children and domestic animals. Do not use this product on humans, pets, or livestock. Do not permit children or pets onto a treated area until the treated area such as grass or soil has dried.

ENVIRONMENTAL HAZARDS

This product is toxic to birds, fish and wildlife including waterfowl. Birds and waterfowl feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product in Nassau County, New York between November 01 and May 20. Do not exceed maximum permitted label rates, as rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. Where irrigation (watering) is recommended apply a minimum of 0.25 inch of water immediately after application. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply to water that will be used for recreational purposes and human and livestock consumption. Shrimp and crab may be killed at application rates recommended on the label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency for information pertaining to areas having threatened endangered species. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

PHYSICAL AND CHEMICAL HAZARDS: Combustible liquid. Do not use, pour, spill, or store near heat or open flame.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, call a physician immediately. **DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE.** Vomiting may cause aspiration pneumonia as product contains petroleum disulfates. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED, remove victim to fresh air and apply artificial respiration if indicated.

IF ON SKIN, wash promptly with soap and water. Rinse thoroughly.

IF IN EYES, flush eyes with plenty of water. Call a physician immediately.

NOTE TO PHYSICIAN: Solvent may present aspiration hazard. Gastric lavage may be indicated if product was taken internally. Diazinon is an organic phosphate 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.

**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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Before applying consult appropriate local State Agricultural Authority to determine if label recommendations are consistent with recommendations for the crop location.

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.

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.

PERSONAL PROTECTIVE EQUIPMENT

Long-sleeved shirts; long legged pants; shoes and socks, and chemical-resistant gloves.

REENTRY STATEMENT

Do not enter or allow entry into the treated area until the 24 hour reentry interval has expired, unless the person entering the area is wearing the personal protective equipment listed on the label.

Do not apply this product in a way that will contact unprotected workers, either directly or through drift. Only protected handlers may be in the area during application.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information (See note below).

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until 24 hours after application of this product, and appropriate actions to take in case of accidental exposure, as described under PRECAUTIONARY STATEMENTS on the label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: WARNING. AREA TREATED WITH SA-50 BRAND DIAZINON AG500 ON (date of application) Do not enter without appropriate protective clothing until 24 hours after date of application. In case of accidental exposure, flush eyes or skin with plenty of water. Call physician if irritation persists. Remove and wash contaminated clothing before reuse.

Fruit and Nut Crops

(for certain crops)

10 3456

SA-50

diazinon AG500 may be applied using ground or aerial application equipment as follows in the table below. The specific amount of product to be used appears under separate directions for use for each crop.

Crop	Air	Minimum Gallons/Acre	Minimum Gallons/Acre	
			Ground	Dilute Concentrate
Almonds*	Yes	20	Yes	100 20
Apricots	Yes	20	Yes	100 20
Blackberries**	No	-	Yes	10
Boysenberries**	No	-	Yes	10
Cherries	Yes	20	Yes	100 20
Cranberries	No	-	Yes	400
Dewberries**	No	-	Yes	10
Grapes	No	-	Yes	20
Loganberries**	No	-	Yes	10
Nectarines	Yes	20	Yes	100 20
Peaches	Yes	20	Yes	100 20
Pineapples	No	-	Yes	200
Plums	Yes	20	Yes	100 20
Prunes	Yes	20	Yes	100 20
Raspberries**	No	-	Yes	10
Strawberries	No	-	Yes	10
Walnuts*	Yes	20	Yes	100 20

*CA only.

**CA, OR, or WA only.

The rate of SA-50 diazinon AG500 for concentrate ground and aerial sprays is based on a dilute full cover with conventional ground equipment applied at 300-600 gallons of water per acre. If directions call for 1 pt. of SA-50 diazinon AG500 in 100 gallons of water this amounts to 3-6 pts. per acre when applied at dilute ground spray volumes.

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:

Crop	PHI*	No of Applications Permitted Per Season
Almonds	45	5
Apricots	10	8
Blackberries	7	5
Boysenberries	7	5
Cherries	10	5
Cranberries	7	5
Dewberries	7	5
Grapes	18, 7	5
Loganberries	7	5
Nectarines	10	5
Peaches	20	5
Pineapples	7	8
Plums, Prunes	10	5
Raspberries	7	5
Strawberries	5	5
Walnuts	45	5

*PHI = Pre-Harvest Interval, or the number of days between the last application and harvest, may vary based on use pattern selected - see specific directions for use for grapes.

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

Crop	Pest	Rate	Timing/Special Directions
Almonds (CA only)	San Jose Scale, Parlatoria Scale	1-1 1/2 pts.. + 2-3 gallons dormant oil or 1-1 1/2 gallons superior type oil in 100 gallons of water	Apply as a dormant spray. Do not apply more than 6 pts. of diazinon or 9 gallons of oil per acre.
	<i>Spider Mites</i> Mites, Twig Borers	1-1 1/2 pts. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 pts. of diazinon per acre per application or make more than 3 applications per season. Do not apply within 45 days of harvest or illegal residues may occur. Almond hulls may be fed to livestock.
Apricots	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 pts. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Olive Scale Crawlers	1/2 pt. + 1 1/2 gallons of light medium horti- cultural oil per 100 gals. of water	Apply when scale crawlers are present. Do not apply more than 6 pts. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Apricot Mealybugs	1 pt. per 100 gallons of water	Apply as a cover spray from petal fall to June to a maximum of 6 pts. per acre per applica- tion. Allow 14 days between applications and do not make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.

Note: Do not make more than 5 applications per season to any crop of apricot. For example, 1 dormant

Crop	Pest	Rate	Timing/Special Directions
Cane-berries CA, OR and WA only (Black-berries, Boysen-berries, Dew-berries, Logan-berries, Rasp-berries)	Leaf-hoppers, Thrips, Aphids, Twospotted Spider Mites, Raspberry Sawflies, Raspberry Fruitworms	1 qt. per acre	Apply as insects occur. Repeat applications after 14 days if necessary. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Apply in a minimum of 100 gallons per acre. (200 gals. per acre maximum) 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 spray in the early Spring when canes are still on the ground and buds are closed. Make a second application when buds are well developed but still closed. Apply in a minimum of 100 gallons of water per acre. Do not apply within 7 days of harvest or illegal residues may occur.
	Raspberry Crown Borers, (Raspberry Root Borers)	2 qts. per acre	Apply a single application in a minimum of 100 gallons of water per acre as a drench to the crown and lower canes in the Spring before buds break.

Crop	Pest	Rate	Timing/Special Directions
Cherries	Eyespotted Bud Moths, Fruit Tree Leaf-rollers	1 pt. in 100 gallons of water	Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days if necessary. Do not apply more than 6 pts. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Leafhoppers	1 pt. in 100 gallons	Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Do not apply more than 6 pts. of diazinon per acre per application. Allow 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.
	Cherry Fruitflies	1/2-1 pt. in 100 gallons	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals. Do not apply more than 6 pts. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Black Cherry Aphids	1 pt. in 100 gallons	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary. Do not apply more than 6 pts. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	San Jose Scale Crawlers	1 pt. in 100 gallons	Apply during the pre-pink stage or when crawlers first appear. Do not apply more than 6 pts. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Nectarines	Peach Twig Borers Parlatoria Scale	1/2 pt. + 1 1/2 gallons light medium horticultural oil per 100 gallons of water	Apply at petal fall. Do not apply more than 6 pts. of diazinon or 6 gallons of summer oil per acre per application.
	Olive Scale Crawlers	1/2 pt. + 1 1/2 gallons light medium horticultural oil per 100 gallons of water	Apply as insects occur. Do not apply more than 6 pts. of diazinon or 6 gallons of summer oil per acre per application or make more than 4 applications per season. Allow 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.
	Oriental Fruitmoths	1 pt. in 100 gallons of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. Do not apply more than 6 pts. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers Peach Twig Borers	1 pt. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 pts. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.

Note: Do not make more than 4 applications per season of any crop insecticide. For control of damage spray and 4 cover sprays.

Crop	Pest	Rate	Timing/Special Directions
Peaches	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 pts. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 20 days of harvest or illegal residues may occur.
	Olive Scale Crawlers	1/2 pt. + 1 1/2 gallons light medium horticultural oil in 100 gallons of water	Apply as insects occur. Do not apply more than 6 pts. of/ diazinon or 6 gallons of summer oil per acre per application or make more than 4 applications per season. Allow 7 days between applications. Do not apply within 20 days of harvest or illegal residues may occur.
	Oriental Fruit- moths	1 pt. in 100 gallons of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. Do not apply more than 6 pts. of diazinon per acre per application. Do not apply within 20 days of harvest or illegal residues may occur.
	Peach Twig Borers	1 pt. in 100 gallons of water	Apply as insects occur in May and June. Allow 7 days between application. Do not apply more than 6 pts. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 20 days of harvest or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Prunes (Cont'd)	European Red Mites		tion. Do not apply within 10 days of harvest or illegal residues may occur.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 pt. in 100 gallons of water	
Straw- berries	Aphids, Twospotted Spider Mites	1 pt. in 100 gallons of water <i>in per</i> 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 gallons of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat applications after 7 days if necessary. Do not apply within 5 days of harvest or illegal residues may occur. Application may be made to plants after harvest. Do not make more than 3 foliar applications per season.
	Mole Crickets	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 Leaf- rollers	3/4-1 pt. in 100 gallons of water	Apply 200 gallons of spray per acre when blossoms show color. Do not apply within 5 days of harvest or illegal residues may occur.
Walnuts (CA only)	Aphids, Mites <i>spider mites</i>	1 qt. per acre	Apply as a foliar spray. Repeat application in 14 days if necessary. Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open or illegal residues may occur. Make ground applications in a minimum of 100 gallons of water per acre.
	Codling Moths, Scale Crawlers, Walnut Cater- pillars	3 qt. per acre	

Vegetable Crops

For foliar or soil applications, ~~SA-50~~ ^{certain} 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 aerially only to crops indicated in the following table. The specific amount of product to be used appears under the separate directions for use for each crop.

Crop	Ground Appl.	Min. Gallons /Acre	OR Min. Gals. /1,000 Sq. Ft.	Air Appl.	Min. Gallons /Acre
Beans, Lima, Snap, and Pole (succulent only)	Yes	10	2	No	-
Beets, Red (Table)	Yes	10	2	No	-
Broccoli	Yes	10	2	No	-
Brussels Sprouts	Yes	10	2	No	-
Cabbage	Yes	10	2	No	-
Cantaloupes	Yes	5	1	No	-
Carrots	Yes	10	2	No	-
Casabas	Yes	5	1	No	-
Cauliflower	Yes	10	2	No	-
Celery	Yes	10	2	No	-
Chinese Broccoli	Yes	10	2	No	-
Chinese Cabbage	Yes	10	2	No	-
Chinese Mustard	Yes	10	2	No	-
Chinese Radish (FL, CA only)	Yes	10	2	No	-
Collards	Yes	10	2	No	-
Crenshaws	Yes	5	1	No	-
Cucumbers	Yes	5	1	No	-
Endive (Escarole)	Yes	10	2	No	-
Ginseng	Yes	10	2	No	-
Honeydew Melons	Yes	5	1	No	-
Kale	Yes	10	2	No	-
Lettuce, <i>Head</i>	Yes	10	2	Yes	5
Muskmelons	Yes	5	1	No	-
Mustard	Yes	10	2	No	-
Onions, Bulb and Green	Yes	10	2	No	-
Parsley	Yes	10	2	No	-
Parsnips	Yes	10	2	No	-
Peas (succulent only)	Yes	10	2	No	-
Peppers	Yes	10	2	No	-
Persian Melons	Yes	5	1	No	-
Potatoes (Irish)*	Yes	10	2	No	-
Radishes	Yes	10	2	No	-
Spinach	Yes	10	2	No	-
Squash, Summer	Yes	5	1	No	-
Squash, Winter	Yes	5	1	No	-
Sweet Corn	Yes	20	4	No	-
Sweet Potatoes	Yes	10	2	No	-
Swiss Chard	Yes	10	2	No	-
Tomatoes	Yes	10	2	Yes	5
Turnips	Yes	10	2	No	-
Watermelons	Yes	5	1	No	-

*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.

Pre-Harvest Intervals (PHI*) for Foliar Applications:

Crop	PHI (Days)
Beans (Lima, Snap, Pole)	7
Beets, Red (Table)	14
Broccoli	5
Brussels Sprouts	7
Cabbage	7
Cantaloupes	3
Carrots	10
Casabas	3
Cauliflower	5
Celery	10
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Mustard	10
Chinese Radish	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	10
Ginseng	30
Honeydew Melons	3
Kale	10
Lettuce	10
Muskmelons	3
Mustard	10
Onions (Green and Bulb)	10
Parsnips	10
Peas	0
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radish	10
Spinach	7
Squash, Summer	7
Squash, Winter	3
Sweet Corn	0
Swiss Chard	12
Tomatoes	1
Turnip Tops	10
Watermelons	3

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

Notes: 1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see TIMING/SPECIAL DIRECTIONS). 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 (Pole, Snap or Lima - succulent only)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<i>GH</i> Black Bean Aphids, Mexican Bean Beetles, <i>Diphenus</i> Leafminers	1-1 1/2 pts. per acre	Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.
	Cucumber Beetles	3/4 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 gallons of water per acre <i>format</i> <i>as to per s</i>

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

Beans, Lima (succulent only) <i>Spider</i>	Leaf- hoppers, Mites	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. 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.
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24 2/23

Crop	Pest	Rate	Timing/Special Directions
Beans Lima (succulent only) (cont)			

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.

Beets, Red (Table)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant 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	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 11 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>

Crop	Pest	Rate	Timing/Special Directions
Broccoli	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 ozs. per 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treat- ments may result in stand reduction due to plant stress at time of trans- planting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpora- tion Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, 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 5 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Brussels Sprouts	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 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop 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.
	Aphids, Diamondback Moths, Imported Cabbage-worms	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Cabbage	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop 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.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Carrots	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	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
Cauliflower	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 ozs. in 50 gals. of water	<p>In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.</p> <p>NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.</p>
	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.

Crop	Pest	Rate	Timing/Special Directions
Cauliflower (cont.)	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 5 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
Celery	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, Flea Beetles, Cabbage Loopers	1 pt. per acre	<p>Mix in 100 gallons of water to spray 1 acre (2 1/4 gallons for 1,000 sq. ft.). Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest. To avoid illegal residues, plants should be market-trimmed (tops removed) before being shipped or used and tops should not be used for food or feed.</p>
Chinese Broccoli	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>

Crop	Pest	Rate	Timing/Special Directions
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
Chinese Mustard (Gai Choy)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
Chinese Radish (Japanese Radish or Daikon) (FL and CA only)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1 pt. per acre	<p>Mix in a minimum of 100 gallons of water per acre and apply as a foliar spray as pests occur. Repeat application as necessary, every 14 days. Do not make more than 3 applications per season.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
Collards	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Collards (cont.)	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids Diamondback Moths, Imported Cabbage- worms, Harlequin Cabbage- bugs, Corn Earworms	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
Cucumbers	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpora- tion Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leaf- miners, 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 Incorpora- tion 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.

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

Crop	Pest	Rate	Timing/Special Directions
Lettuce	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	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. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) and watermelons	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Melons (Cont.) <i>Dipterous</i> <i>spider</i>	Aphids Serpentine Leaf- miners, Thrips, Striped Cucumber Beetles, Melonworms, Leaf- hoppers, 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 application per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Mustard			
	Cutworms	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.

Crop	Pest	Rate	Timing/Special Directions
Mustard (Cont.)	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Onions (Green & Bulb)	Onion Maggots	2-4 qts. per acre	Broadcast application: Broadcast just before planting and mix into the top 3-4 inches of soil by disking, harrowing, or other suitable means. NOTE: Diazinon will not control organophosphate-resistant onion maggots.
	Onion Thrips	1 pt. per acre	Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into 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.

Crop	Pest	Rate	Timing/Special Directions
Parsnips	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
Peas (succulent only)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Leafminers	3/4-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.</p> <p>Peas may be picked immediately after application.</p> <p>Vines and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 4 days following treatment if forage is to be cut for hay.</p> <p>NOTES: 1) Diazinon will not control organophosphate-resistant leafminers. 2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.</p>

Crop	Pest	Rate	Timing/Special Directions
Peppers	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 Leaf-miners	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.
Potatoes	Cutworms (Surface & 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 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.
NOTE: Do not use on commercially grown potatoes which will be hand-harvested.			

Crop	Pest	Rate	Timing/Special Directions
Potatoes (cont)	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, Leaf- hoppers, Southern Armyworms	3/4-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 35 days of harvest or illegal residues may occur.
Radishes	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.

Crop	Pest	Rate	Timing/Special Directions
Radishes (cont)	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
Spinach	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 Leaf- miners	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more 5 applications per season.</p> <p>Do not apply within 10 days of harvest.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>

Crop	Pest	Rate	Timing/Special Directions
Squash, Summer	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil 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 Leaf-miners, Thrips, Striped Cucumber Beetles, Melonworms, Leaf hoppers, Mites <i>Spider</i>	1/2-1 1/2 pts. per acre	Apply as insects occur. Repeat application as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Squash, Winter	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leaf-miners, Thrips, Striped Cucumber Beetles, Melonworms, Leaf hoppers, Mites <i>Spider</i>	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 leafminers.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn	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 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 may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.
	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 may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.
	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 neces- sary, every 7 days. Do not make more than 5 applications per season. Corn may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn (cont.) <i>spider</i>	Grass-hoppers, Mites, Flea-beetles	1 pt. per acre	Apply as insects occur. Repeat, as necessary, every 7 days. Do not make more than 5 applications per season. Corn may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.
	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. Corn may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.

Note: To protect bees, do not apply foliarly to corn during the pollen shed period.

Sweet Potatoes	Wireworms, Flea Beetles	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Swiss Chard	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Imported Cabbage-worms Diamondback Moths, Harlequin Cabbage-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 12 days of harvest or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Tomatoes	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	3/4-1 pt. per acre	Do not apply within one day of harvest or illegal residues may occur.
	Vinegar Flies (<i>Drosophila</i> Spp.)	1/2-1 1/2 pts. per acre	
Turnips and Turnip Tops	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Crop	Pest	Rate	Timing/Special Directions
Turnips and Turnip Tops (cont.)	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 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.

Mushroom Houses

Mushroom Flies - (Phorids and Sciarids)

Mix 1/2 to 1 gallon in 50 gallons of water and spray on outside and inside walls and ventilators of mushroom houses after compost has been pasteurized by heating. Note: Do not spray compost in beds or after spawning because illegal residues may result.

To treat wooden sides of beds, posts, doors, and door frames, after pasteurizing, mix 1/2 pint in 6 gallons of water and apply with a brush. Note: Do not apply this treatment after spawning. Do not treat compost.

Field Crops

Soil and foliar applications of *SP-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.

Preharvest Interval (PHI*) for Foliar Applications

Crop	PHI (Days)
Hops	14
Sugar Beets	7

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

Crop	Pest	Rate	Timing/Special Directions
Hops <i>spider</i>	Aphids, Mites	1 qt. per acre	Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest.
Sugar Beets	Wireworms	3-4 qts. per acre	Broadcast just before planting. Incorporate into soil 4-6 inches. Do not apply more than 4 qts. of this product to the soil, per season. Tops may be fed to beef and dairy animals.
	Beet Leaf-hoppers, Dipterous Leaf-miners, 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 7 days of harvest. Tops may be fed to beef and dairy animals. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Grass-hoppers	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. Tops may be fed to beef and dairy animals.

Grassland Insects

Unless otherwise stated, SA-50 diazinon AG500 should always be applied as a spray in a minimum of 1 gallon of water per acre for aerial applications and in a minimum of 5 gallons of water per acre for ground applications.

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

Grasshoppers: Apply 3/4-1 pt. per acre in water or oil (minimum of 1 gallon of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential.

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

Insect Control ~~of Insects~~ on Ornamentals

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

Lawn Pest Control (Excluding Golf Courses and Sod Farms)

To control pests listed below, apply recommended rates.

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

Pests	Rate/1,000 sq. ft.		Remarks
	SA-50 diazinon AG500	Water	
Lawn Chinch Bugs	2-3 fl. ozs.	3 gals.	Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.
Ants, Armyworms, Clover Mites, Springtails (Collembola), Crickets,	2-3 fl. ozs.	3 gals.	Spot spray ant hills and wasp ground nest openings. ←

Continued ...

dog grass mites

5/10/52

Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Sod Webworms (Lawn Moths), Sowbugs (<i>pill bugs</i>).	2-3 fl. ozs. <i>leafhoppers</i>	3 gals.	For frit flies, mow grass and water well before treat- ment but delay application until grass is dry. For digger wasps, apply at dusk when wasps are not active. For billbug control apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.
Brown Dog Ticks, Bermudagrass Mites, Chiggers, Fleas, Leafhoppers	1 1/4 fl. oz. 3 fl. oz.	3 gals.	Note: Do not apply to animals. For brown dog ticks, spray grass and under shrub- bery, particularly near house.
Millipedes	3 fl. ozs.	3 gals.	
Rhodesgrass Scales	3 fl. ozs.	3 gals.	Apply when crawlers first emerge.

White Grubs (such as Japanese Beetle Larvae, European Chafer, Southern Chafer): Apply 3 fl. ozs. per 1,000 sq. ft. of lawn. For grub control make application any time between late July and early October.

Hyperodes Weevil: Apply 3 fl. ozs. per 1,000 sq. ft. of grass. Treat problem areas in mid-April and again in mid-May.

Boxelder bugs: Spray bugs outside the home with 1 1/4-2 1/2 fl. ozs. (2 1/2-5 tablespoons) in 1 gal. water. At the same time thoroughly spray around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

Insect I
Storage and Disposal

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

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Nuisance Pests in Outside Areas

Ants, Boxelder Bug, Brown Dog Ticks, Chiggers, Clover mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sow bugs (pillbugs) Spiders, Springtails (Collembola).

Mix 3 fl. ozs. in 3 gals. of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls and ceilings, 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 bait around the house next to the foundation and spray the foundation of the house to a height of 2-3 ft. Repeat application as necessary.