

520011

MAR 11 1997

Ms. Nik Ramswick  
Universal Cooperatives, Inc.  
P.O. Box 460  
Minneapolis, MN 55440

Dear Ms. Ramswick:

Subject: Amendment- Comply with Agency letter of November 22, 1996  
Diazinon 4EC (AG)  
EPA Registration Number 1386-599  
Your submission dated January 30, 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) In the Hazards to Humans and Domestic Animals, revise "table spoons" to "tablespoons".
  - b) In the Environmental Hazards, revise the beginning of the seventh sentence to read "On lawns, if waterfowl (ducks or geese) can be expected ...".
  - c) At the end of the current GENERAL INFORMATION text add:

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

In the directions for use which follow, best control is

obtained when application is made at the first sign of pests. Application should be repeated only as directed to maintain control.

- d) Add "to wait" between "days" and "between" in the PHI note under the PHI table for Fruits and Nuts.
- e) In the directions for the crop Caneberries, delete "Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur." from the directions for control of Leafhoppers, etc. and delete "Do not apply within 7 days of harvest, or illegal residues may occur." from the directions for control of Dryberry Mites and then under all the directions for Caneberries add a Notes section 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.

- f) Throughout the Fruits and Nuts directions, in the NOTES about PHI intervals, start each such sentence with "To avoid illegal residues,". Your label is inconsistent in this regard.
- g) For the crop Cranberries, in the directions for control of Blackheaded Fireworms, replace "Apply when pest appears." with "Apply to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing.". Retain the rest of the text as is, except that you may chose to delete the PHI sentence and have it appear in the revised NOTES (see item "h", below).
- h) Also for the crop Cranberries, for Cranberry Fruitworms the rate should be 2-3 qts. and in the directions replace the current text with "Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management adviser. Repeat application every 14 days, as needed. A maximum of 4 applications per season is permitted for the 3 qt. rate. A maximum of 6 applications is permitted for the 2 qt. rate.". These revised directions do not include the PHI sentence since it will appear in the Notes. Add a NOTES section as follows:

NOTES: (1) Do not apply more than 12 qts. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest. (3) This product may be applied to cranberries through

sprinkler irrigation. Refer to the section CHEMIGATION for specific chemigation directions for use. (4) DO NOT USE WATER FROM IRRIGATED OR FLOODED CRANBERRY BEDS FOR DRINKING PURPOSES OR TO IRRIGATE CROPS OTHER THAN THOSE APPEARING ON EPA APPROVED DIAZINON LABELS.

- i) For the crop Strawberries you may delete "Do not apply within 5 days of harvest or illegal residues may occur." from the directions for control of Aphids, etc., Cyclamen Mites, and Strawberry Leafrollers since this same limitation will appear in the new Notes for this crop entry (see below). Also, delete "Application may be made to plants after harvest." from the directions for control of Cyclamen Mites. Such a post-harvest use is not supported by the residue data generated by CIBA (NOVARTIS). Add a NOTES section as follows:

NOTES: Do not apply more than 1 qt. of product 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.

- j) In the directions for the crop Walnuts you may delete "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." from the directions and then add a Notes section as follows: Notes: (1) Do not apply more than 3 qts. of product per acre per application. (2) Do not apply more than 9 qts. of product per acre per season. (3) To avoid illegal residues, allow a minimum of 45 days between the last application and harvest and do not apply after husks open.
- k) Add "to wait" between "days" and "between" in the PHI note under the PHI table for Vegetables.
- l) In the booklet, for all Vegetable Crops entries that include the pest Mole Crickets, you may replace "Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil." with "One to two days before planting, broadcast and immediately incorporate into the soil."
- m) For the crop Sweet Potatoes, delete the pest Flea Beetles appearing with Wireworms since soil incorporation is not appropriate as a control for this foliar pest.
- n) Add "to wait" between "days" and "between" in the PHI note under the PHI table for Field Crops.

- o) In the directions paragraph for Insect Control on Ornamentals, relocate "Repeat as necessary." to appear after "... and penetrate dense foliage."
- p) In the Lawn Pest Control table revise the directions for control of Frit Flies to read "For frit flies, before treatment mow grass and water well, but delay application until grass is dry."
- q) In the LAWN PEST CONTROL Precautions, in the seventh sentence revise "If waterfowl, i.e., ducks or geese, can be" to read "If waterfowl (ducks or geese) can be" and revise "1/4 inch water" to "1/4 inch of water".

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.

While the Confidential Statement of Formula (CSF) dated August 30, 1995 is acceptable and has been added to this product's registration file, the Agency questions your indication of this formula as an "Alternate Formulation". Since this is the only formula in compliance with the requirements of the Diazinon Registration Standard and therefore supersedes all other CSFs in this product's file, it should be called the Basic Formula. The Agency notes that you had a second supplier, but to date you have not submitted a revised CSF for that supplier showing the required toxicologically significant impurities information. Have you dropped the second supplier or is the second supplier your Basic Formulation (previous recent CSFs have only shown the Alternate box checked, with no Basic ever being indicated)? Is the August 30, 1995 CSF the only and therefore Basic Formulation for this product? Please respond within 30 days of the date of this letter.

Sincerely,

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

ADDED TEXT

5/25

RESTRICTED USE PESTICIDE  
 DUE TO AVIAN AND AQUATIC TOXICITY

FOR RETAIL SALE TO AND USE BY CERTIFIED APPLICATORS  
 OR PERSONS UNDER THEIR DIRECT SUPERVISION AND  
 ONLY FOR THOSE USES COVERED BY THE CERTIFIED  
 APPLICATOR'S CERTIFICATION.

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

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

MAR 11 1997

DIAZINON® 4EC (AG)

Insecticide For Control Of Certain Insects On Fruits,  
Nuts, Vegetables, Field Crops, Lawns, and Ornamentals.

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
1386-599

KEEP OUT OF REACH OF CHILDREN  
 CAUTION  
 See Side Panel For Additional Precautionary Statements  
 And Directions For Use

ACTIVE INGREDIENT:		
0,0-diethyl 0-(2-isopropyl-6-methyl- 4-pyrimidinyl) phosphorothioate .....		48.0%
INERT INGREDIENTS* .....		52.0%
Total .....		100.0%

\*Contains Xylene Range Aromatic Solvent. Diazinon 4EC Contains 4 Pounds Diazinon Per Gallon.

Net Contents: 1 Gallon

EPA Reg. No. 1386-599  
EPA Est. No. 1386-OH-1



6/25

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

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

**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:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, or viton  $\geq 14$  mils
- Shoes plus socks

**Engineering Controls Statements:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(2)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**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 internally.

For Medical Emergency information call 1-800-228-5635, extension 138.

### 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 wash waters.

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

### PHYSICAL OR CHEMICAL HAZARDS

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

### 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.

### 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 into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- \* Coveralls
- \* Chemical resistant gloves such as barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, and viton  $\geq$  14 mils
- \* Shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

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

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

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.

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

#### 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 Diazinon 4EC (AG), do not rub eyes or mouth with hands. If



you feel sick in any way, STOP work and get help right away. See Practical Treatment section of this label.

NOTE: The California Department of Agriculture has set a 5-day reentry period for diazinon on grapes, peaches, and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of 2 or more organophosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

GENERAL INFORMATION

Diazinon 4EC (AG) is an emulsifiable solution which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Do not use on food crops grown in greenhouses. Do not use in barns or dwellings. Do not use on livestock.

FRUIT AND NUT CROPS

Diazinon 4EC (AG) 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 Diazinon 4EC (AG) 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 to 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 pint of Diazinon 4EC (AG) in 100 gallons of water, this amounts to 3 to 4 pints of product per acre when applied at the usual dilute ground spray volumes of 300 to 400 gallons of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the timing/special directions for individual crops. Observe stated time intervals between last application and harvest as well as intervals between applications and total amount of product that can be applied per season.

CROP	AERIAL APPLICATION MINIMUM GALS./ACRE	GROUND APPLICATION MINIMUM GALS./ACRE		PHI**	REI***
		DILUTE	CONCENTRATE		
Apricots	20	100	20	21	24 Hours
Blackberries*	20	100	20	7	24 Hours
Boysenberries*	20	100	20	7	24 Hours
Cherries	20	100	20	21	24 Hours
Cranberries	20	15	--	7	24 Hours
Dewberries*	20	100	20	7	24 Hours
Grapes	20	100	20	28	24 Hours
Loganberries*	20	100	20	7	24 Hours
Nectarines	20	100	20	21	24 Hours
Peaches	20	100	20	21	24 Hours
Plums, Prunes	20	100	20	21	24 Hours
Raspberries*	20	100	20	7	24 Hours
Strawberries	20	100	20	5	24 Hours

\*OR or WA only; \*\*PHI = Pre-Harvest Interval or the number of days between the last application and harvest; \*\*\*REI = Restricted-Entry Interval.

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.

APRICOTS - Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, and San Jose Scale Crawlers - Apply 1 pint in 100 gallons of water. Apply as infestations occur. Repeat application after 14 days if necessary. Olive Scale Crawlers - Apply 1/2 pint plus 1 1/2 gallons of light medium horticultural oil per 100 gallons of water. Apply when scale crawlers are present. Apricot Mealybugs - Apply 1 pint per 100 gallons 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 pints of product per acre per application and no more than 12 pints of product per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

CANEBERRIES (OR and WA only), BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES - Leafhoppers, Thrips, Aphids, Two-Spotted Spider Mites, Raspberry Fruitworms, Raspberry Sawflies - Apply 1 quart 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 gallons of water per acre (200 gallons per acre maximum). For Raspberry Fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open. Dryberry Mites - Apply 1 to 2 quarts 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) - Apply 2 quarts 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.

CHERRIES - Eyespotted Bud Moths and Fruit Tree Leafrollers - Apply 1 pint in 100 gallons of water. Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days if necessary. Leafhoppers - Apply 1 pint in 100 gallons of water. Make 3 to 4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications. Cherry Fruitflies - Apply 1/2 to 1 pint in 100 gallons of water. Make 3 to 4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals. Black Cherry Aphids - Apply 1 pint in 100 gallons of water. Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary. San Jose Scale Crawlers - Apply 1 pint in 100 gallons of water. Apply during the pre-pink stage or when crawlers first appear. Cherry Rust Mites - Apply 1/2 to 1 pint in 100 gallons 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 pints of product per acre per application and no more

than 12 pints of product per acre per season. (3) Allow a minimum of 21 days between the last application and harvest.

**CRANBERRIES** - Blackheaded Fireworms (Rhopobota naevana) - Apply 2 quarts in a minimum of 15 gallons of water per acre for ground application. Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted. Do not apply within 7 days of harvest, or illegal residues may occur. Cranberry Fruitworms - Apply 3 quarts in a minimum of 15 gallons of water per acre for ground application. Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 4 applications per season is permitted. Do not apply within 7 days of harvest, or illegal residues may occur.

**DO NOT USE WATER FROM IRRIGATED OR FLOODED CRANBERRY BEDS FOR DRINKING PURPOSES, OR TO IRRIGATE CROPS OTHER THAN THOSE APPEARING ON EPA APPROVED DIAZINON LABELS.**

**GRAPES** - Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafhoppers, Omnivorous Leafrollers, Aphids, Spider Mites - Apply 1 to 2 pints per acre in a minimum of 100 gallons of water. Apply as pest occurs as a thorough cover spray. Repeat application after 7 days if necessary. Drosophila spp. - Apply 6 fluid ounces per acre in a minimum of 100 gallons of water (300 gallons 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 pints of product per acre per application and no more than 10 pints per acre per season. (2) To avoid illegal residues, allow 28 days between the last application and harvest.

**NECTARINES** - Oriental Fruit Moths - Apply 1 pint in 100 gallons of water. Apply at 100% petal fall. Make 2 additional applications at 10 to 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 - Apply 1 pint in 100 gallons of water. Apply as infestations occur. Repeat application after 14 days if necessary.

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

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

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

PLUMS AND PRUNES - Brown Mites (Clover Mites) and European Red Mites - Apply 1 pint in 100 gallons of water. Apply as needed every 7 days. Leafcurl Plum Aphids, Mealy Plum Aphids, and Thistle Aphids - Apply 1/2 to 1 pint in 100 gallons of water. Apply as needed every 7 days.

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

STRAWBERRIES - Aphids, Two-Spotted Spider Mites - Apply 1 pint in 100 gallons 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 - Apply 1 quart 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 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 - Apply 1 quart per acre. Broadcast in sufficient water to obtain even coverage when insects are present. Apply 1 to 2 days before transplanting and immediately incorporate into the top 1 to 2 inches of soil. Strawberry Leafrollers - Apply 3/4 to 1 pint 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.

VEGETABLE CROPS

For foliar or soil applications, Diazinon 4EC (AG) should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Diazinon 4EC (AG) 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. 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.

CROP	GROUND APPLICATION		AERIAL APPLICATION Minimum Gals./Acre	PHI**	REI***
	Minimum Gals./Acre	Minimum Gals./1,000 Sq. Ft.			
Beans (Lima, Pole, and Snap) (Succulent Only)	10	2	5	7	24 Hours
Beets, Red (Table)	10	2	5	14	24 Hours
Broccoli	10	2	5	7	24 Hours
Brussels Sprouts	10	2	5	7	24 Hours
Cabbage	10	2	5	21	24 Hours
Cantaloupes	5	1	5	3	24 Hours
Carrots	10	2	5	14	24 Hours
Casabas	5	1	5	3	24 Hours
Cauliflower	10	2	5	7	24 Hours
Chinese Broccoli	10	2	5	10	24 Hours
Chinese Cabbage	10	2	5	10	24 Hours
Chinese Mustard	10	2	5	10	24 Hours
Chinese Radish (CA, FL Only)	10	2	5	10	24 Hours
Collards	10	2	5	10	24 Hours
Crenshaws	5	1	5	3	24 Hours
Cucumbers	5	1	5	7	24 Hours
Endive (Escarole)	10	2	5	14	24 Hours
Ginseng	10	2	5	30	24 Hours
Honeydew Melons	5	1	5	3	24 Hours
Kale	10	2	5	10	24 Hours
Lettuce, Head	10	2	5	14	24 Hours
Lettuce, Leaf	10	2	5	14	24 Hours
Muskmelons	5	1	5	3	24 Hours
Mustard	10	2	5	10	24 Hours
Onions (Bulb and Green)	10	2	5	14	24 Hours
Parsley	10	2	5		24 Hours
Parsnips	10	2	5	14	24 Hours
Peas (Succulent Only)	10	2	5	7	24 Hours
Peppers	10	2	5	5	24 Hours
Persian Melons	5	1	5	3	24 Hours
Potatoes (Irish)*	10	2	5	35	24 Hours
Radishes	10	2	5	14	24 Hours
Spinach	10	2	5	14	24 Hours
Squash, Summer	5	1	5	7	24 Hours
Squash, Winter	5	1	5	3	24 Hours
Sweet Corn	20	4	5	7	24 Hours
Sweet Potatoes	10	2	5		24 Hours
Swiss Chard	10	2	5	14	24 Hours
Tomatoes	10	2	5	1	24 Hours
Turnips (Roots and Tops)	10	2	5	14	24 Hours
Watermelons	5	1	5	3	24 Hours

\*Do not use on commercially grown potatoes which will be hand-harvested.  
 \*\*PHI = Pre-Harvest Interval or the number of days between the last application and harvest.  
 \*\*\*REI = Restricted-Entry Interval.

NOTES: (1) SOIL INCORPORATION FOR SOIL BORNE PESTS: Following application of this product to control vegetable soil insects, immediately incorporate the product into soil to the recommended depths, using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of MOLE CRICKETS, incorporate into the top 1 to 2 inches of soil; ONION MAGGOTS, incorporate into the top 3 to 4 inches of soil; ROOT MAGGOTS, incorporate into the top 3 to 4 inches of soil; SUBTERRANEAN CUTWORMS, incorporate into the top 3 to 6 inches of soil; SURFACE CUTWORMS, incorporate into the top 2 to 3 inches of soil; and WIREWORMS, incorporate into the top 4 to 8 inches of soil. (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.

BEANS [Lima, Pole, and Snap (Succulent Only)] - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Black Bean Aphids, Mexican Bean Beetles, and Dipterous Leafminers - Apply 1 to 1 1/2 pints 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. 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. Cucumber Beetles - Apply 3/4 pint 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. 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 application in 100 gallons of water per acre.

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

BEANS, LIMA (Succulent Only) - Leafhoppers and Spider Mites - Apply 1 pint 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.

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

BEETS, RED (Table) - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) Mole Crickets - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Dipterous Leafminers Apply 1/2 to 1 pint 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 - For Soil Insects See Soil Incorporation Note - Root Maggots** - Apply 2 to 3 quarts per acre. Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the soil. **Transplant Water Treatment** - Apply 4 to 8 ounces per 50 gallons of water. In transplant water as a drench application when 200 to 300 gallons of water are used per acre. Apply 1/2 to 1 cup (4 to 8 ounces) 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** - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Mole Crickets** - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. **Wireworms** - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Aphids, Diamondback Moths, Imported Cabbageworms, and Dipterous Leafminers** - Apply 1/2 to 1 pint 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.

**BRUSSELS SPROUTS - For Soil Insects See Soil Incorporation Note - Root Maggots** - Apply 2 to 3 quarts per acre. Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the soil. **Transplant Water Treatment** - Apply 4 to 8 ounces in 50 gallons of water. In transplant water as a drench application when 200 to 300 gallons of water are used per acre. Apply 1/2 to 1 cup (4 to 8 ounces) 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** - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Mole Crickets** - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. **Wireworms** - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Aphids, Diamondback Moths, and Imported Cabbageworms** - Apply 1/2 to 1 pint 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.

**CABBAGE - For Soil Insects See Soil Incorporation Note - Root Maggots** - Apply 2 to 3 quarts per acre. Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the soil. **Transplant Water Treatment** - Apply 4 to 8 ounces in 50 gallons of water. In transplant water as a drench application when 200 - 300 gallons of water are used per acre. Apply 1/2 to 1 cup (4 to 8 ounces) 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** - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Mole Crickets** - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. **Wireworms** - Apply

3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids, Diamondback Moths, Imported Cabbageworms, and Dipterous Leafminers - Apply 1/2 to 1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 21 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

**CARROTS** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Mole Crickets - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids - Apply 1 pint 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.

**CAULIFLOWER** - For Soil Insects See Soil Incorporation Note - Root Maggots - Apply 2 to 3 quarts per acre. Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the soil. Transplant Water Treatment - Apply 4 to 8 ounces in 50 gallons of water. In transplant water as a drench application when 200 to 300 gallons of water are used per acre. Apply 1/2 to 1 cup (4 to 8 ounces) 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 - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Mole Crickets - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids, Diamondback Moths, Imported Cabbageworms, and Dipterous Leafminers - Apply 1/2 to 1 pint per acre. Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 7 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

**CHINESE BROCCOLI** - Aphids, Diamondback Moths, Imported Cabbageworms, and Dipterous Leafminers - Apply 1/2 to 1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

**CHINESE CABBAGE (Bok Choy and Napa)** - Aphids, Diamondback Moths, Imported Cabbageworms, and Dipterous Leafminers - Apply 1/2 to 1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.



**CHINESE MUSTARD (Gai Choy)** - Aphids, Diamondback Moths, Imported Cabbageworms, and Dipterous Leafminers - Apply 1/2 to 1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

**CHINESE RADISH [Japanese Radish or Daikon (FL and CA Only)]** - Aphids, Diamondback Moths, Imported Cabbageworms, and Dipterous Leafminers - Apply 1 pint per acre. 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. Do not apply within 10 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

**COLLARDS** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Mole Crickets - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Bugs, and Corn Earworms - Apply 1/2 to 1 pint 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** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, and Melonworms - Apply 1 pint 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)** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Mole Crickets - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids and Dipterous Leafminers - Apply 1/2 to 1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest. Note: Diazinon will not control organophosphate-resistant leafminers.

**GINSENG** - Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, and Jumping Plant Lice - Apply 3/4 to 1 pint per acre. Spray when insects first appear. For heavy insect infestations, use 1 pint per acre. Apply by ground equipment using 10 to 100 gallons of water per acre. Do not apply more than one application per growing season. Do not apply during flowering of 3 or 4 year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.

**KALE** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Mole Crickets - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Bugs, and Corn Earworms - Apply 1/2 to 1 pint 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.

**LETTUCE** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Mole Crickets - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids and Dipterous Leafminers - Apply 1/2 to 1 pint 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.

**MELONS (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) AND WATERMELONS** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, and Spider Mites - Apply 1/2 to 1 1/2 pints 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.

**MUSTARD** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Mole Crickets - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids, Dipterous Leafminers, Diamondback Moths, and Imported Cabbageworms - Apply 1/2 to 1 pint 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 (Bulb and Green)** - For Soil Insects See Soil Incorporation Note - Onion Maggots - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Note: Diazinon will not control organophosphate-resistant onion maggots. Onion Thrips - Apply 1 pint 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 - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil.

**PARSLEY** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil.

**PARSNIPS** - Aphids, Flea Beetles, and Dipterous Leafminers - Apply 1/2 to 1 pint 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.

**PEAS (Succulent Only)** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids and Dipterous Leafminers - Apply 3/4 to 1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. To avoid illegal residues, allow a minimum of 7 days between the last application and 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** - For Soil Insects See Soil Incorporation Note - Cutworms - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Mole Crickets - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Aphids and Serpentine Leafminers - Apply 1/2 to 1 pint 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** - For Soil Insects See Soil Incorporation Note - Cutworms (Surface and Subterranean) - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. Southern Potato Wireworms (Southeastern U.S.) - Apply 2 to 4 quarts per acre. For potatoes grown on mineral soils in the Southeast, apply before planting and immediately incorporate into the top 3 to 6 inches of soil depending on location of wireworms. Aphids, Flea Beetles, Colorado Potato Beetles, and Dipterous Leafminers - Apply 1/2 to 3/4 pint 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, and Southern Armyworms - Apply 3/4 to 1 pint 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.

**RADISHES - For Soil Insects See Soil Incorporation Note - Cutworms -** Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Mole Crickets -** Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. **Wireworms -** Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Aphids, Flea Beetles, and Dipterous Leafminers -** Apply 1/2 to 1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.

**SPINACH - For Soil Insects See Soil Incorporation Note - Cutworms -** Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Wireworms -** Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Aphids and Dipterous Leafminers -** Apply 1/2 to 1 pint 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.

**SQUASH, SUMMER - For Soil Insects See Soil Incorporation Note - Cutworms -** Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Wireworms -** Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, and Spider Mites -** Apply 1/2 to 1 1/2 pints 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 - For Soil Insects See Soil Incorporation Note - Cutworms -** Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Wireworms -** Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, and Spider Mites -** Apply 1/2 to 1 1/2 pints 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.

**SWEET CORN - For Soil Insects See Soil Incorporation Note - Cutworms -** Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Seed Corn Maggots -** Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the top 2 inches of soil. **Wireworms -** Apply 3 to 4 quarts per acre. Broadcast before planting and immediately incorporate into the soil. **Corn Earworms -** Apply 1 to 1 1/4 quarts 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) -** Apply 1/2 to 1 pint 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** - Apply 1 to 2 pints 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, and Flea Beetles** - Apply 1 pint per acre. Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. **Sap Beetles** - Apply 2 to 2 1/2 pints per acre. Consult local agricultural authorities for proper timing of sprays. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Notes: (1) To protect bees, do not apply 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** - For Soil Insects See Soil Incorporation Note - **Wireworms and Flea Beetles** - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil.

**SWISS CHARD** - For Soil Insects See Soil Incorporation Note - **Cutworms** - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Wireworms** - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Aphids, Imported Cabbageworms, Diamondback Moths, and Harlequin Bugs** - Apply 1/2 to 1 pint 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.

**TOMATOES** - For Soil Insects See Soil Incorporation Note - **Cutworms** - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Mole Crickets** - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. **Wireworms** - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Aphids and Dipterous Leafminers** - Apply 1/2 pint 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 one day of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers. **Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, and Beet Armyworms** - Apply 3/4 to 1 pint 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 1 day of harvest, or illegal residues may occur. **Vinegar Flies (Drosophila spp.)** - Apply 1/2 to 1 1/2 pints 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 1 day of harvest, or illegal residues may occur.

**TURNIPS, ROOTS AND TOPS** - For Soil Insects See Soil Incorporation Note - **Cutworms** - Apply 2 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Mole Crickets** - Apply 1 quart per acre. Apply to plant beds or fields 1 to 2 days before sowing of seed or transplanting and immediately incorporate into the soil. **Wireworms** - Apply 3 to 4 quarts per acre. Broadcast just before planting and immediately incorporate into the soil. **Aphids, Flea Beetles, and Dipterous Leafminers** - Apply 1/2 to 1 pint per acre. Apply as insects occur. Repeat

application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate resistant leafminers.

FIELD CROPS

Soil and foliar applications of Diazinon 4EC (AG) should always be applied as a spray in sufficient water to ensure thorough coverage. For foliar applications, observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season.

PRE-HARVEST INTERVAL (PHI\*) FOR FOLIAR APPLICATIONS

CROP	PHI* (Days)	REI**
Hops	14	24 Hours
Sugar Beets	14	24 Hours

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

\*\*REI = Restricted-Entry Interval.

HOPS - Aphids and Spider Mites - Apply 1 quart per acre. Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 4 applications per season. Do not apply within 14 days of harvest.

SUGAR BEETS - Wireworms - Apply 3 to 4 quarts per acre. Broadcast just before planting. Incorporate into soil 4 to 6 inches. Do not apply more than 4 quarts of this product to the soil, per season. Beet Leafhoppers, Dipterous Leafminers, and Aphids - Apply 3/4 to 1 pint 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 - Apply 1 pint 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, AND BARRIER STRIPS - Grasshoppers - Spray 3/4 to 1 pint per acre in water (minimum of 1 gallon of water per acre) for aerial applications or a minimum of 5 gallons of water per acre for ground applications or in oil (a minimum of 1 gallon of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential. Do not graze or use treated grass for forage or feed.

INSECT CONTROL ON ORNAMENTALS

To control certain insects on Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladioli, Hawthorn, Holly,

Juniper, Lilac, Locust, Maple, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Rose, Spruce, and Willow, apply the following recommended rates. Try to spray underside of leaves and penetrate dense foliage.

Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf-tiers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-Spotted Spider Mites, Juniper Webworms, and Whiteflies - Mix 1/2 fluid ounce in 3 gallons of water (or 1 pint in 100 gallons of water). REI 12 hours.

Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, and Tent Caterpillars - Mix 1 1/2 fluid ounces in 3 gallons of water (or 3 pints in 100 gallons of water). REI 12 hours.

-\*1 fl. oz. = 2 tablespoons

\*\*16 fl. oz. = 1 pint

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

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

#### LAWN PEST CONTROL

(Excluding Golf Courses and Sod Farms)

Precautions: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping of sprays. If waterfowl, i.e., ducks or geese, can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least 1/4 inch water immediately after application; however, stop watering before puddling occurs. To control pests listed below, apply recommended rates.

Lawn Chinch Bugs - Apply 2 to 3 fluid ounces in 3 gallons of water per 1,000 square feet. Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.

Ants, Armyworms, Bermudagrass Mites, Clover Mites, Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs), and Springtails (Collembola) - Apply 2 to 3 fluid ounces in 3 gallons of water per 1,000 square feet. Spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk when wasps are not active. For frit flies, mow grass and water well before treatment, but delay application until grass is dry. For billbug

control, apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.

Brown Dog ticks, Chiggers, and Fleas - Apply 3 fluid ounces in 3 gallons of water per 1,000 square feet. Note: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.

Hyperodes Weevils - Apply 3 fluid ounces in 3 gallons of water per 1,000 square feet. Treat problem areas in mid-April and again in mid-May.

Millipedes - Apply 3 fluid ounces in 3 gallons of water per 1,000 square feet.

Rhodesgrass Scales - Apply 3 fluid ounces in 3 gallons of water per 1,000 square feet. Apply when crawlers first emerge.

White Grubs (such as Japanese Beetle Larvae, European Chafer, Southern Chafer) - Apply 3 fluid ounces in 3 gallons of water per 1,000 square feet. 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 fluid ounces in 3 gallons 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 5-foot band of soil around the house next to the foundation and spray the foundation of the house to a height of 2 to 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 and may contaminate groundwater. If pesticide, spray mixture, or rinsate cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY AND LIMITATION OF DAMAGES**

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes



the risk of any use contrary to such directions. Seller makes no other express or implied warranty, including any other express or implied warranty of Fitness or of Merchantability, and no agent of Seller is authorized to do so except in writing with a specific reference to this warranty. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

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