

829-249

10/19/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

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

OCT 19 2001

Dear Ms. Huffman:

Subject: Amendment - Comply with 2000 Diazinon MOA  
Update First Aid per PR Notice 2001-1,  
And Update CSFs/replacement diazinon source  
SA-50 Home and Garden Diazinon Insecticide  
25% Spray Concentrate  
EPA Registration Number 829-249  
Your submission dated June 13, 2001

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

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. On the container label, in the Environmental Hazards revise "Where irrigation (watering) is recommended..." to read "Where watering is recommended...".
  - b. On the container label, in the First Aid If in Eyes advice, revise "Remove contact lenses, if present..." to read "Remove contact lenses, if present...".
  - c. On the container label, revise Note #5 under the heading Directions For Use to read "Do not apply this product in greenhouses.".
  - d. In the Booklet, revise Note #5 under the heading General Information to read "Do not apply this product in greenhouses.".

- e. Under the PHI table for Fruits and Nuts, delete the double asterisked footnote "\*\*\*Dormant spray only" since there is no crop Almonds that this would refer up to.
  - f. In the Pest column entry for Apricots, revise "Mealy-bugs" to "Mealybugs".
  - g. For the Fruit and Nut crops, the Rate for most fruits of "4 teaspoons in 2 gallons of water" might be better presented as 2 teaspoons per 1 gallon of water; the rate for grapes as 1½ teaspoons per 1 gallon of water (please note correction of "teas- spoons" to "teaspoons").
  - h. Under the heading Vegetables, replace the sentence "Do not apply to food crops grown in greenhouses." with "Do not apply this product in greenhouses."
  - i. Under the heading Vegetables, in the Rate column for various crops revise "table- spoons" to "tablespoons".
  - j. In the First Aid If in Eyes advice, revise "Remove contact lenses, f present..." to read "Remove contact lenses, if present...".
  - k. In the Environmental Hazards revise "Where irrigation (watering) is recommended..." to read "Where watering is recommended...".
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.
  4. Comply with all applicable provisions of the 2000 Memorandum of Agreement Regarding Pesticide Products Containing Diazinon (i.e., the Diazinon MOA). In accordance with the Diazinon MOA you have requested the following revisions to the conditions of registration for this diazinon product with outdoor non-agricultural (i.e., home and garden) uses:
    - a. You have requested under section 6(f) of FIFRA that this registration be voluntarily canceled on a date not later than December 31, 2004.
    - b. You may not manufacture, label, or release for shipment this product after June 30, 2003.
    - c. You may not sell or distribute this product after August 31, 2003.
    - d. The registration for this product shall expire and be canceled on December 31, 2004.
    - e. You will send to every person who directly purchases this product (i.e., to every seller) a notification of Product Recovery Program to be conducted by Syngenta and Makhteshim after December 31, 2004.

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

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

The Basic Confidential Statement of Formula (CSF) dated July 6, 2001 which identifies a replacement diazinon source Manufacturing Use Product is acceptable and has been added to this product's registration file.

Sincerely,

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

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye injury. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not use inside the home. Avoid contamination of feed and foodstuffs. Do not use on household pets or humans. Do not allow children or pets to go onto a treated area until the treated area, such as grass or soil, has dried. Do not contaminate ornamental fish ponds. Food utensils such as spoons and measuring cups must not be used for food purposes after use in measuring pesticides.

**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 certain 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. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, where irrigation (watering) is recommended in the directions, or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately. However, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

**FIRST AID**

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person. **If on Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. **If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:** This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains aromatic petroleum distillate which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally. Have product container or label with you when calling a poison control center or doctor or going for treatment. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

**OCT 19 2001**

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

**829-249**



50<sup>®</sup> Home & Garden

# DIAZINON INSECTICIDE

## 25% Spray Concentrate

**KILLS CERTAIN** outdoor insects which destroy vegetables, turf, roses, flowers, trees and shrubs or annoy pets and people. Contains Diazinon Insecticide which provides positive control of many hard to kill, sucking and chewing insects.

**FOR OUTDOOR USE ON THE HOME LAWN AND THE HOME GARDEN ONLY. THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS.**

**ACTIVE INGREDIENT**

Diazinon: 0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl)phosphorothioate ..... 25.0%

**INERT INGREDIENTS:** ..... 75.0%

\*Contains Aromatic Petroleum Distillates      **TOTAL:** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

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.

**Southern Agricultural Insecticides, Inc.**

Palmetto, Fla. 34220      Hendersonville, N.C. 28793      Boone, N.C. 28607  
EPA Est. No. 829-FL-1      J5      EPA Reg. No. 829-249

**Net Contents Liquid: 8 Ounce, Pint or Quart**

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Reformulation or repackaging of this product is prohibited.

**NOTE:** Do not apply this product through any type of irrigation system

For the directions for use to specific crops and areas, see attached booklet.

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

Notes: (1) USE CONTENTS WITHIN 6 MONTHS AFTER OPENING. SEE STORAGE AND DISPOSAL DIRECTIONS. (2) Do not use in the home. (3) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia or orchids since plant injury may occur. (4) Use this product on succulent peas and beans only. Do not use on dried pea or bean varieties. (5) Do not apply to food crops grown in greenhouses.

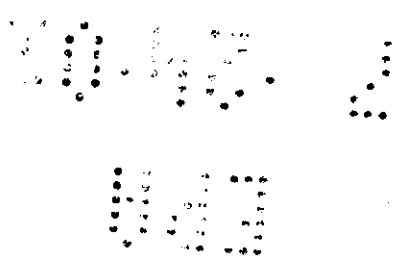
**STORAGE AND DISPOSAL**

**STORAGE:** Do not store near heat or open flame. Store in original container in an area inaccessible to children and pets.  
**USE CONTENTS WITHIN 6 MONTHS AFTER OPENING.**  
**DISPOSAL:** Do not reuse empty container. Thoroughly rinse container, securely wrap it in several layers of newspaper and discard in trash. If disposal of a partially full container is necessary, make sure cap is tightly closed, securely wrap the container in several layers of newspaper and discard in trash.



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LABEL COPY GLUED ON CONTAINER



Handwritten mark or signature.

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REVISED BOOKLET

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

OCT 19 2001

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
829-249

# Diazinon Insecticide 25% Spray Concentrate

This product must not be used on golf courses and sod farms.  
For outdoor use on the home lawn and the home garden only.

Protects: Lawns, Vegetables, Fruits and Nuts, Roses, Flowers, Trees, and Shrubs  
Controls: Ants, Aphids, Chinch Bugs, Cutworms, Fire Ants<sup>1</sup>, Flea Beetles, Grubs, Mites, Sod Webworms and  
many others. <sup>1</sup>Aids in control.

**Active Ingredient:**

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	25.0%
Inert Ingredients*	75.0%
Total:	100.0%

\*Contains aromatic petroleum distillates.

Contains diazinon insecticide.

**KEEP OUT OF REACH OF CHILDREN.**

## CAUTION

See inside of booklet for additional precautionary statements.

EPA Reg. No. 829-249

Net Contents Liquid, 8 Ounce, Pint or Quart

**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. If terms are not acceptable, return the unopened product container at once.

**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.

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Manufacturer makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Manufacturer or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Manufacturer 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. Reformulation or repackaging of this product is prohibited.

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

**GENERAL INFORMATION**

Diazinon Insecticide is an emulsifiable concentrate product which must be diluted with water before application. Refer to the section **How to Mix and Apply**. This product kills many outdoor insects which damage lawns, roses, flowers, trees, shrubs, vegetables, fruits and nuts, and insects which annoy pets and people. Contains diazinon insecticide which provides positive control of many "hard-to-kill" sucking and chewing insects. Diazinon Insecticide works fast and applications should be repeated only as directed to maintain control.

**Notes:** (1) **USE CONTENTS WITHIN 6 MONTHS AFTER OPENING, SEE STORAGE AND DISPOSAL DIRECTIONS.** (2) Do not use inside the home. (3) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia, or orchids since injury may occur. (4) Use this product on succulent peas and beans only. Do not use on dried pea or bean varieties. (5) Do not apply to food crops grown in greenhouses.

**Precautions:** (1) *Wear a long-sleeved shirt and long-legged pants when spraying.* (2) *Spray with the wind to your back.* (3) *Do not spray on windy days.* (4) *If clothing becomes wet from spray during use, remove clothing after spraying, wash affected body areas thoroughly with soap and water, and launder clothing before wearing again.*

**How to Mix and Apply**

**Step #1: Determine size of spraying job.** For lawns and vegetables, measure the area to be sprayed. For all other applications, apply as a thorough cover spray. Make applications when insects first appear. Applications should be repeated only as directed to maintain control.

**Step #2:** Use clean sprayer. Carefully measure and mix the amount of Diazinon Insecticide and water as indicated in the rate chart.

**Step #3: Spray as directed in rate chart.** Thorough coverage is important.

**Step #4: Flush sprayer with clean water after each use.**

**See chart for complete list of use sites, crops, and insects controlled.** Use the rate given in the chart for the type of insect you want to control on the site or crop you are spraying.

### Measurement Conversions

1 tablespoon = 3 teaspoons

1 fl. oz. = 6 teaspoons or 2 tablespoons

6 fl. oz. = 3/4 cup

1 1/2 tablespoons in 3 gals. of water = 1 1/2 teaspoons in 1 gal. of water

2 tablespoons in 3 gals. of water = 2 teaspoons in 1 gal. of water

### LAWN PEST CONTROL

*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 and waterfowl. Avoid overlapping of sprays. Where irrigation (watering) is recommended in the directions, or if waterfowl (ducks or geese) can be expected in the treated area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying this product; however, stop watering before puddling occurs.*

Use on Bent, Bermuda, Bluegrass, Dichondra, Fescue, Merion, and St. Augustinegrass.

To control pests listed below, apply recommended rates. Repeat as necessary.

Pests	Rate		Remarks
	Diazinon	Water	
Lawn Chinch Bugs	1 1/2 tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet down grass a few hours before applying.  In the North, if Chinch Bugs are the only problem, a lower rate of application can be used: 3 teaspoons in 3 gals. of water covers 125 sq. ft. or 4 fl. oz. in 24 gals. of water per 1,000 sq. ft.

Pests	Rate		Remarks
	Diazinon	Water	
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Springtails ( <i>Collembola</i> ), Crickets, Cutworms, Earwigs, Frit Flies, Lawn Billbugs, Leathoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs)	1 1/2 tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet down grass a few hours before applying.  For ants and digger wasps: spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk, when wasps are not active. Billbug control: Apply when activity is first observed or when chewed or brown grass is present indicating damage from the insect. For Frit flies: mow grass and water thoroughly before treatment, but delay application until grass is dry.
Brown Dog Ticks, Chiggers, Fleas	1 1/2 tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	<b>Note:</b> Do not apply this product to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.
Hyperodes Weevil	1 1/2 tablespoons per 125 sq. ft. or 6 fl. oz. Per 1,000 sq. ft.	3 gals.  24 gals.	Treat problem areas in mid-April and again in mid-May. Water grass thoroughly after application.
Millipedes	1 1/2 tablespoons per 125 sq. ft. or 6 fl. oz. Per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet grass a few hours before applying.
Rhodesgrass Scales	1 1/2 tablespoons per 125 sq. ft. or	3 gals.	Apply when crawlers first emerge.

	6 fl. oz. Per 1,000 sq. ft.	24 gals.	
White Grubs of Japanese Beetle, European Chafer, Southern Chafer	1½ tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals. 24 gals.	Apply any time between late July and early October. Water grass thoroughly after application.

### Nuisance Pests Outside the Home

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails ( <i>Collembola</i> )	Mix 2 fl. oz. in 1 gal. 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-ft. band of soil around the house next to the foundation and spray the foundation of the house to a height of 2 feet. Repeat application as necessary. <b>Do not treat animals with this product. Do not treat plants (other than tree trunks) at this nuisance pest rate.</b>
Fire Ants	To aid in the control of fire ants in home lawns and other outdoor home recreation areas, apply 2 tablespoons in a minimum of 1 gal. of water as a drench. Apply over and 6 inches around each mound. Apply gently to avoid disturbing ants. Reapply as necessary. Larger quantities of solution can be prepared for multiple mound treatments. Use equipment capable of delivering the diluted product as a gentle rain at the rate of 1 gal. per mound. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness. <b>Note:</b> For best results, apply in cool weather 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear.

### INSECT CONTROL ON OUTDOOR ORNAMENTAL TREES, SHRUBS AND FLOWERS

Spray when listed pests first appear. Repeat as necessary.

Trees and Shrubs	Insects	Rate Per 1 Gal. of Water	Timing/Special Directions
Arborvitae, Azalea, Birch, Boxwood, Camellia, Crab Apple, Dogwood, Douglas Fir, Elm, Euonymus, Hawthorn, Holly, Honey Locust, Honeysuckle, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Scotch Pine, Spirea, Spruce, Sycamore, Wax Plant (Hoya), Willow, Yellowwood, Yew	Aphids, Apple and Thorn Skeletonizers, Bagworms, European Pine Sawfly, European Pine Shoot Moths, Holly Bud Moths, Dipterous Leafminers (Arborvitae, Azalea, Birch, Boxwood, Holly, Oak), Hemlock Chermes, Leafhoppers, Mealybugs, Mites (Clover, Cyclamen, European Red, Privet, Two-spotted Spider Mites, Oak Loopers, Obliquebanded Leafrollers, Obscure Root Weevils, Omnivorous Leaf-tiers, Pear Slugs, Scale Crawlers (Coltonycushion, Euonymus, Lecanium, Pine Needle, Pit, San Jose, Soft), Tent Caterpillars, Webworms (Cotoneaster, Fall, Juniper, Mimosa), Whiteflies	2 teaspoons	Apply as a thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage with spray.  Mimosa Webworms: Apply when adults first appear. Make two additional applications at 4 to 5-week intervals.
Roses and Flowers	Insects	Rate Per 1 Gal. of Water	Timing/Special Directions
Azaleas, Camellias, Chrysanthemums, Carnations, Gladioli, Lilac, Lilies, Marigolds, Pansies, Petunias, Rhododendron, Roses	Aphids, Dipterous Leafminers, Euonymus Scale Crawlers, Flea Beetles, Leafhoppers, Mealybugs, Mites (Carnation Bud, Carnation Shoot, Cyclamen, European Red, Two-spotted Spider Mites), Thrips, Whiteflies	2 teaspoons	Apply as a thorough foliar spray. Try to spray underside of leaves and penetrate dense foliage.

### FRUITS AND NUTS

Start spraying after blooming. Applications should be made according to infestation or when aphids, mites, and crawler stages of scale insects are first noted.

Observe stated time intervals between last application and harvest of the crop, as well as intervals between applications and total number of applications that can be made per season.

Crop	PHI*
Apricots	21
Blueberries	7
Cherries	21
Grapes	28
Nectarines	21
Peaches	21
Plums	21
Prunes	21
Strawberries	5

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

\*\*Dormant spray only.

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

Crop	Pest	Rate	Timing/Special Directions
Apricots	Aphids, Apricot Mealy-bugs, Mites (Brown, Two-spotted Spider Mites), Scale Crawlers (Olive, San Jose)	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gals. per 500 sq. ft. of home orchard. Do not make more than 3 applications per season, a minimum of 14 days apart. Do not apply within 21 days of harvest.
Blueberries	Aphids, Blueberry Maggots, Cherry Fruitworms, Cranberry Fruitworms, Thrips, Two-spotted Spider Mites	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Allow a minimum of 14 days between applications. Do not apply more than 4 gals. per 500 sq. ft. of blueberry patch. Do not make more than 2 applications per season. Allow a minimum of 7 days between the last application and harvest.
Cherries	Black Cherry Aphids, Cherry Fruitflies, Cherry Fruitworms (Maggots), Fruittree Leafrollers, Mites (Cherry Rust), Scale Crawlers (San Jose)	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gals. per 500 sq. ft. of home orchard. Do not make more than 3 applications per season, a minimum of 7 days apart. Do not apply harvest.
Grapes	Aphids, Leafhoppers, Grape Berry Moths, Grape Leafrollers	4½ tea-spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gals. per 500 sq. ft. of home vineyard. Do not make more than 5 applications per season, a minimum of 7 days apart. Do not apply within 28 days of harvest.
Nectarines	Aphids, Mites (Brown, Two-spotted Spider Mites), Scale Crawlers (Olive, San Jose)	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gals. per 500 sq. ft. of home orchard. Do not make more than 3 applications per season, a minimum of 14 days apart. Do not apply within 21 days of harvest.
Peaches	Aphids, Mites (Brown, Two-spotted Spider Mites), Scale Crawlers (Olive, San Jose)	4 teaspoons in 2 gals. of water	Apply as a full cover cover spray. Do not apply more than 4 gals. Per 500 sq. ft. of home orchard. Do not make more than 3 applications per season, a minimum of 14 days apart. Do not apply within 21 days of harvest.
Plums and	Aphids (Leafcure Plum, Mealy Plum, Thistle), Mites (Brown,	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gals. per



Prunes	European Red)		500 sq. ft. of home orchard. Do not make more than 3 applications per season, a minimum of 7 days apart. Do not apply within 21 days of harvest.
Strawberries	Aphids, Two-spotted Spider Mites, Strawberry Leafrollers	2 tablespoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gals. per 500 sq. ft. of strawberry patch. Do not make more than 3 applications per season, a minimum of 7 days apart. Do not apply within 5 days of harvest.

## VEGETABLES

For foliar or soil applications, Diazinon Insecticide should be applied in the volume of water recommended in the table below to assure thorough coverage of the foliage or soil.

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

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

Crop	PHI* (Days)
Beans <sup>1</sup> (succulent varieties only: Lima, Pole, and Snap)	7
Broccoli	7
Cabbage	21
Cantaloupes	3
Carrots	14
Casabas	3
Cauliflower	7
Chinese Broccoli	10
Chinese Cabbage	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	14
Honeydew Melons	3
Kale	10
Lettuce	14
Muskmelons	3
Onions (Bulb and Green)	14
Parsnips	14
Peas <sup>1</sup>	7
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radishes	14
Rutabagas	14
Spinach	14
Squash, Summer	7
Squash, Winter	3
Sweet Corn	7
Tomatoes	1
Turnips (Roots and Tops)	14
Watermelons	3

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

<sup>1</sup>Do not use this product on dried pea or bean varieties such as pinto beans, dried limas, split peas, or dried black-eyed peas.

## VEGETABLES

For application to the foliage, thoroughly spray all plant parts. Application to the soil should be mixed into the soil immediately after application.

Crop	Pest	Rate	Timing/Special Directions
Beans, Lima, Pole, and Snap (succulent varieties only)	Aphids, Cucumber beetles, Grasshoppers, Leafhoppers, Mexican Bean Beetles,	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 5 days, up to 3 applications per

	Spider Mites		season. Do not apply within 7 days of harvest.
	Cutworms (surface, subterranean)	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms (snap beans only)	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.

**Notes:** (1) Do not apply this product to dried bean varieties such as pinto beans or dried limas. (2) To protect bees, do not apply bean foliage treatments if the beans or weeds in the treatment area are in bloom.

Beets, Red (Table)	Cutworms (surface, subterranean)	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly 1-2 days before planting. Immediately work into soil 1-2 inches.
Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 7 days of harvest.  <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Cabbage	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 21 days of harvest.
	Cutworms (surface, subterranean)	6 table spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
Cabbage	Root Maggots	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches.
	Wireworms	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.
Carrots	Aphids, Flea Beetles, Leaf-hoppers, Dipterous Leafminers, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly 1-2 days before planting. Immediately work into soil 1-2 inches.
Carrots	Wireworms	6 table- spoons per	Spray the soil evenly just before

		500 sq. ft. in a minimum of 1½ gals. of water	planting. Immediately work into soil 4-8 inches.
Cauliflower	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 7 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Chinese Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 10 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 10 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Collards	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 10 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Corn (see sweet corn)			
Cucumbers	Aphids, Thrips, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 7 days of harvest.
Endive (Escarole)	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Kale	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 10 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Lettuce	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Wireworms	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals.	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.

Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) and Watermelons	Aphids, Thrips, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 3 days of harvest.
Onions (Bulb and Green)	Onion Thrips	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest.
Parsnips	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Peas (succulent only)	Aphids, Cucumber Beetles, Grasshoppers, Leafhoppers, Mexican Bean Beetles, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 5 days, up to 3 applications per season. Allow at least 7 days between the last application and harvest.
	Cutworms (surface, subterranean)	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cut- worms, 3-6 inches for subterranean cutworms.
Peas (succulent only)	Mole Crickets	2 table-spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	6 table-spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.
<b>Notes:</b> (1) Do not apply this product to dried pea varieties such as split peas or dried black-eyed peas. (2) To protect bees, do not apply foliage treatments if peas or weeds in the treatment area are in bloom.			
Peppers	Aphids, Colorado Potato Beetles, Flea Beetles,  Leafhoppers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 5 days of harvest.
Potatoes	Aphids, Flea Beetles, Leafhoppers, Colorado Potato Beetles, Southern Armyworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 35 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Radishes	Aphids, Flea Beetles, Leafhoppers, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 3 applications per season. Do not apply within 14 days days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 table- spoons per 500 sq. ft in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
Rutabagas	Aphids, Flea Beetles, Leaf- hoppers, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Resistant leafminers will

			not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 table-spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
Spinach	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Squash, Summer	Aphids, Thrips, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest.
Squash, Winter	Aphids, Thrips, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest.
Sweet Corn	Aphids, Thrips, Flea Beetles, Grasshoppers, Spider Mites	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Corn may be picked 7 days following last application.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn (Continued)	Cutworms (surface, subterranean)	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.

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

Tomatoes	Aphids, Colorado Potato Beetles, Fall Armyworms, Flea Beetles, Leafhoppers, Southern Armyworms, Vinegar Flies ( <i>Drosophila</i> spp.)	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 1 day of harvest.
Tomatoes	Cutworms (surface, subterranean)	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Wireworms	6 table- spoons per 500 sq. ft. in a minimum of 1½ gals. of water	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.
Turnips and Turnip Tops	Aphids, Flea Beetles, Leafhoppers, Imported Cabbageworms, Dipterous Leafminers	1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 14 days of harvest. <b>Note:</b> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface,	6 table- spoons per	Spray the soil evenly just before

subterranean)	500 sq. ft. in a minimum of 1½ gals. of water	planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
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### STORAGE AND DISPOSAL

**Storage:** Do not store near heat or open flame. Store in original container in an area inaccessible to children and pets. USE CONTENTS WITHIN 6 MONTHS AFTER OPENING.

**Disposal:** To avoid harming aquatic organisms in rivers and other surface waters, do not pour the concentrate, spray mixture, or rinse water into sanitary drains (for example, toilets, floor drains, and sinks) or into storm water sewers (for example, street drains). Do not reuse empty container. Triple rinse the empty container, pour the rinse water into the sprayer and spray the treated area. Securely wrap the empty container in several layers of newspaper and discard in trash. If disposal of a partially full container is necessary, take the container to your local household waste disposal facility, or make sure cap is tightly closed, securely wrap the container in several layers of newspaper and discard in trash.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

##### CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye injury. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not use inside the home. Avoid contamination of feed and foodstuffs. Do not use on household pets or humans. Do not allow children or pets to go onto a treated area until the treated area, such as grass or soil, has dried. Do not contaminate ornamental fish ponds. Food utensils, such as spoons and measuring cups, must not be used for food purposes after use in measuring pesticides.

##### FIRST AID

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person. **If on Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. **If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Note to Physician:** This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains aromatic petroleum distillates - vomiting may cause aspiration pneumonia. Gastric lavage may be indicated if product was taken internally.

Have product container or label with you when calling a poison control center or doctor or going for treatment.

For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.

##### 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 certain 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. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, where irrigation (watering) is recommended in the directions, or if waterfowl (ducks or geese) can be expected in the treated area after treatment (except spot treatment), water lawn with 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. 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.