

438687

APR - 9 1993

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

Dear Mr. Costa Rica:

Subject: Amendment - Change to "Caution" Formula
SA-50 Home and Garden Diazinon Insecticide
EPA Reg. No. 829-249
Your submission dated July 9, 1992

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

- 1) Delete the incomplete directions summary "FOR USE ON TURF, APPLY 6 FL. OZ. PER 1,000 SQ. FT. FOR TREES, SHRUBS, FLOWERS, FRUITS AND VEGETABLES, USE 2 TBLS. PER 3 GALS. OF WATER." from the front panel. Not only are these directions not in the correct location, they are also incomplete for the sites listed. They could cause a user to disregard the instruction booklet, with its necessary complete precautions, directions, and use limitations.
- 2) Also make the following revisions to the front panel:
 - a) Correct the spelling of "annoy" in the sentence which begins "KILLS CERTAIN ...".
 - b) In the ingredients statement, revise "2pisopropyl" to "2-isopropyl". [Do not include the quotation marks that appear in this letter on your labeling.]
 - c) Delete "Contains 2 lbs. Diazinon per gallon." from this homeowner-use product. Such statements (with the correct lbs./gal. value) are supposed to appear only on agricultural-use labels, where directions can refer to pounds of active ingredient to be applied per acre.

- 4) Replace the last two sentences in the **Precautions** under the heading "**Lawn Pest Control**" with the following:

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

- 5) For consistency with Ciba-Geigy's labeling, revise the pest name "**Twospotted Spider**" or "**Twospotted Spider Mites**" to read "**Two-spotted Spider**" or "**Two-spotted Spider Mites**" throughout the **PEST** listings in the **Directions For Use**.
- 6) In the list of **Insects for Trees and Shrubs**, correct the spelling of "**Euonymus**".
- 7) There a number of apparently incorrect breaks in the text columns (assuming that the page lengths are similar to your current booklet). For example, the third group of pests in the **Trees and Shrubs** section could just be moved up to join the preceding two sections. No repeat of the column headings would be necessary. It would be appropriate to use the column headings "**Insects**", "**Rate per 3 gals. of water**", and "**Timing/Special Directions**" with the **Roses and Flowers** section. Similarly, it would appear appropriate to join all pest groupings (without additional column headings) for the crops **Cabbage, Lettuce, and Radishes**. Presumably, the column heading are repeated for the crop **Sweet Corn** because it will not fit on the same page as **Squash, Winter** (if it will be on the same page there is no reason for repeating the column headings).
- 8) For the crop **Cabbage**, add the following resistance limitation Note in the **Timing/Special Directions** for the first group of pests (the one that includes **Dipterous Leafminers**):

NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.

- 9) For the crop **Peas**, delete the extra portion of the line separating the first two pest groupings that extends into the crop column.

- 10) Also for the crop **Peas**, the **NOTES** at the end of the directions for this crop should be those for peas, not beans. The correct notes are as follows:

NOTES: (1) Do not apply this product to dried pea varieties such as split peas or black-eyed peas. (2) To protect bees, do not apply foliage treatments if peas or weeds in the treatment area are in bloom.

- 11) For the crop **Turnip and Turnip Tops**, delete the extra portion of the line separating the first two pest groupings that extends into the crop column.
- 12) In the seventh sentence of the Environmental Hazards text, it should read "waterfowl, i.e. ducks or geese".

A stamped copy of the label is enclosed for your records. The replacement Confidential Formula (CSF) dated July 9, 1992 is acceptable and has been added to this product's registration file.

NOTE - The label and associated Confidential Statement of Formula accepted at this time supersede all previous labels and formula statements on file for this product.

Sincerely,

George T. LaRocca
Product Manager (13)
Insecticide Rodenticide Branch
Registration Division (H7505C)

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), 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. 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.

L01 NO.

Home and Garden

DIAZINON INSECTICIDE

25% Spray Concentrate

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

FOR OUTDOOR USE ON THE HOME LAWN AND THE HOME GARDEN ONLY.

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 USE ON TURF, APPLY 8 FL. OZ. PER 1,000 SQ. FT. FOR TREES, SHRUBS, FLOWERS, FRUITS AND VEGETABLES, USE 2 TBLS. PER 3 GALS. OF WATER.

ACTIVE INGREDIENT
Diazinon: 0,0-dimethyl 0-(2-pisopropyl-6-methyl-4-pyrimidinyl) phosphorothioate 25.0%

INERT INGREDIENTS* 75.0%

*Contains aromatic petroleum distillates. TOTAL: 100.0%

Contains 2 lbs. Diazinon per gallon.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician immediately. DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

IF INHALED: Remove victim to fresh air and apply artificial respiration if indicated. 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 and call a physician immediately.

NOTE TO PHYSICIAN: This product is an organo-phosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidote. 2-PAM is also antidote and may be administered, but only in conjunction with atropine. This product contains aromatic petroleum distillates which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

Southern Agricultural Insecticides, Inc.

Palmetto, FL 34229 Hendersonville, NC 27530 Beaufort, NC 28507
EPA Reg. No. 829-240 J4 Net Contents Liquid: 1 Quart

DIRE
IT IS A VIOLATION OF FI
IN A MANNER INCONSIS
FAILURE TO FOLLOW
PRECAUTIONS ON THIS
CONTROL, CROP INJUR

NOTE: Do not apply this system.

For the directions for u attached booklet.

Notes: (1) USE CONTENT: SEE STORAGE AND DISP home. (3) Do not use on gardenia or orchids since p on succulent peas and bee varieties. (5) Do not apply

STORA

Do not store near heat o in an area inaccessible WITHIN 6 MONTHS A

Do not reuse empty c securely wrap it in sever trash. If disposal of a pa sure cap is tightly closed layers of newspaper an

EPA EST. NO. 829-FL-1 (3); 82 No. corresponds to first digit



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ACCEPTED
with COMMENT
in EPA Letter D

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Under the Federal I
Fungicide, and Rode
as amended, for the
registered under EPA

829-240

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Home and Garden

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.**

DIRECTIONS FOR APPLICATION

Southern Agricultural Insecticides, Inc.
Palmetto, FL 34220 Hendersonville, NC 28793 Boone, NC 28607
EPA Reg. No. 829-249 J3

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 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.

Southern Agricultural Insecticides, Inc. 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. Southern Agricultural Insecticides, Inc. makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Southern Agricultural Insecticides, Inc. or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Southern Agricultural Insecticides, Inc. and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Southern Agricultural Insecticides, Inc.

DIRECTIONS FOR USE

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

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

SA-50 Diazinon 25% Spray Concentrate 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 insects which annoy pets and people. Contains diazinon insecticide which provides positive control of many "hard-to-kill" sucking and chewing insects. SA-50 Diazinon 25% Spray Concentrate works fast and applications should be repeated only as directed to maintain control.

USE CONTENTS WITHIN 6 MONTHS AFTER OPENING

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, plums, gardenia or orchids since injury may occur. (4) Use this product on succulent peas and beans only. Do not use on dried peas or bean varieties.

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 SA-50 Diazinon 25% Spray Concentrate and water as suggested in the rate chart.

Step #3: Spray as directed in rate chart. Thorough coverage is important. Flush sprayer with clean water after each use.

See chart for complete insect list. Use rates shown unless otherwise indicated.

1 tablespoon = 3 teaspoons

1 fl. oz. = 6 teaspoons or 2 tablespoons

8 fl. oz. = 1 cup

2 tablespoons in 3 gals. of water = 2 teaspoons in 1 gal. of water or 6 oz in 18 gals. of water.

LAWN PEST CONTROL

Use on Bent, Bermuda, Bluegrass, Dichondra, Fescue, Merton and St. Augustine grass.

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

Pests	Rate		Remarks
	SA-50 Diazinon 25% Spray Concentrate	Water	
Lawn Chinch Bug	1 1/2 table- spoons per 125 sq ft	3 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 1/2 spoons in 3 gals. of water covers 125 sq ft or 4 fl. ozs in 24 gals of water per 1,000 sq ft.
	or 6 fl. ozs per 1,000 sq ft	24 gals	
Ants, Army worms, Bermuda Grass Mites, Clover Mites, Springtails (Collembola), Crickets, Cut worms, Digger Wasps, Earwigs, Fire Flies, Lawn Billbugs, Leaf hoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs)	1 1/2 table- spoons per 125 sq ft	3 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 fire flies, mow grass and water well before treatment, but delay application until grass is dry.
	or 6 fl. ozs per 1,000 sq ft	24 gals	
Brown Dog Ticks, Chiggers, Fleas	1 1/2 table- spoons per 125 sq ft	3 gals	Note: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.
	or 6 fl. ozs per 1,000 sq ft	24 gals	
Millipedes	1 1/2 table- spoons per 125 sq ft	3 gals	Thoroughly wet grass a few hours before applying.
	or 6 fl. ozs per 1,000 sq ft	24 gals	
Rhodesgrass Scales	1 1/2 table- spoons per 125 sq ft	3 gals	Apply when crawlers first emerge.
	or 6 fl. ozs per 1,000 sq ft	24 gals	
White Grubs of Japanese Beetle, European Chaffer, Southern Chaffer	1 1/2 table- spoons per 125 sq ft	3 gals	Water grass thoroughly after application. grub control. Apply any time between late July and early October.
	or 6 fl. ozs per 1,000 sq ft	24 gals	
Hyperodes Weevil	1 1/2 table- spoons per 125 sq ft	3 gals	Water grass thoroughly after application. Best problem areas in mid April and again in mid May.
	or 6 fl. ozs per 1,000 sq ft	24 gals	

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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.

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

INSECT CONTROL ON TREES, SHRUBS, AND FLOWERS

Trees & Shrubs	Insects	Rate per 3 gals. of water	Timing/Special Directions
Arborvitae, Azalea, Birch, Boxwood, Camellia, Douglas Fir, Elm, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Spruce, Willow	Aphids, Bagworms, European Pine Shoot Moths, Holly Bud Moths, Dopterous Leafminers (Arborvitae, Azalea, Birch, Boxwood, Holly, Oak), Leafhoppers, Mealybugs, Mites (Clover, Cyclamen, European Red, Privet, Twospotted Spider), Obscure Root Weevils, Omnivorous Leafhoppers, Scale Crawlers, (Cotton-cushion, Eucymnus, Lecanium, Pine Needle, Pin Scale, San Jose, Soft)	2 tablespoons	Apply as a thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage with spray.
	Webworms (Juniper, Mimosa), Whiteflies	2 tablespoons	Apply as a thorough foliar spray. Mimosa Webworms: Apply as a thorough foliar spray when adults first appear. Make two additional applications at 4-5 week intervals.

Trees & Shrubs (cont)	Insects	Rate per 3 gals. of water	Timing/Special Directions
	Apple and Thorn Skeletonizers, Hemlock Cherries, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars, Webworms (Cottoneaster, Fall)	2 tablespoons	Apply as a thorough foliar spray.
Rees and Flowers			
Azaleas, Camellias, Chrysanthemums, Carnations, Gladiol, Lilac, Rhododendron, Roses	Aphids, Eucymnus Scale Crawlers, Flea Beetles, Dopterous Leafminers, Leafhoppers, Mealybugs, Mites (Carnation Bud, Carnation Shoot, Cyclamen, European Red, Twospotted Spider), Thrips, Whiteflies	2 tablespoons	Apply as a thorough foliar spray. Try to spray underside of leaves and penetrate dense foliage.

Crop	Pest	Rate	Timing/Special Directions
Apricots	Aphids, Apricot Mealybugs, Mites (Clover [brown], Twospotted Spider), Scale Crawlers (Olive, San Jose)	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 21 days of harvest.
Caneberries (WA, OR, CA only), Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries	Aphids, Leafhoppers, Raspberry Fruitworms, Twospotted Spider Mites, Thrips	2 tablespoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 5 gallons per 500 sq. ft. of field. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 7 days of harvest. This product may be used on caneberries only in California, Oregon and Washington. Do not use this product on caneberries grown in other states.
Cherries	Black Cherry, Aphids, Cherry Fruit-flies, Cherry Fruitworms (Maggot), Fruit-tree Leaf-rollers, 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 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 7 days apart. Do not apply within 21 days of harvest.
Grapes	Aphids, Leafhoppers, Grape Berry Moths, Grape Leafhoppers	4 1/2 teaspoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gallons per 500 sq. ft. of vineyard. Do not make more than 5 applications per season a minimum of 7 days apart. Do not apply within 21 days of harvest.
Nectarines	Aphids, Mites (Clover [brown], Twospotted Spider), Scale Crawlers (Olive, San Jose)	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 21 days of harvest.
Peaches	Aphids, Mites (Clover [brown], Twospotted Spider), Scale Crawlers (Olive, San Jose)	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq. ft. of 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 Prunes	Aphids (Leaf-curl Plum, Mealy Plum, Thistle), Mites (Clover [brown], European Red)	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq. ft. of 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, Twospotted Mites, Strawberry Leafrollers	2 tablespoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gallons per 500 sq. ft. of field. Do not make more than 3 applications per season a minimum of 7 days apart. Do not apply within 5 days of harvest.

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VEGETABLE CROPS

For foliar or soil applications, SA 50 Diazinon 25% Spray Concentrate 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*
Beans, Lima, Pole & Snap ¹ (Succulent varieties only)	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)	10
Honeydew Melons	3
Kale	10
Lettuce	14
Muskmelons	3
Onions, Bulb & Green	14
Parsnips	14
Peas ¹	7
Peppers	5
Potatoes (Irish)	35
Radishes	14
Spinach	14
Squash, summer	7
Squash, winter	3
Sweet Corn	7
Tomatoes	1
Turnips (Roots & Tops)	14
Watermelons	3

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

¹ Do not use this product on dried pea or black-eyed bean varieties such as pinto beans, dried limas, or dried black-eyed peas

VEGETABLE CROPS

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, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 5 days up to 3 applications per season. Do not apply within 7 days of harvest.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms (snap beans only)	6 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil 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 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.

Crop	Pest	Rate	Timing/Special Directions
Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dipterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Cabbage	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dipterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 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 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Root Maggots	6 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches.

Crop	Pest	Rate	Timing/Special Directions
Cabbage	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Carrots	Aphids, Flea Beetles, Spider Mites, Dipterous Leafminers, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
Cauliflower	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dipterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Chinese Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dipterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.

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Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dpterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides
Collard's	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dpterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides
Corn (see sweet corn)			
Cucumbers	Aphids, Thrips, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 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, Dpterous Leafminers, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides
Kale	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dpterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides
Lettuce	Aphids, Flea Beetles, Leafhoppers, Dpterous Leafminers, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides
	Cutworms (Surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms

Crop	Pest	Rate	Timing/Special Directions
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches
Melons (Cantaloupes, Casabas, muskshaws, peydews, muskmelons, Persians and Hybrids of these) and Watermelons	Aphids, Thrips, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 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, Green & Bulb	Onion Thrips	2 tablespoons in 3 gals. of water to cover 1,000 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, Dpterous Leafminers, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts Repeat applications every 7 days up to 5 applications per season Do not apply within 14 days of harvest. NOTE: 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	2 tablespoons in 3 gals. of water to cover 1,000 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 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 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 beans. (2) To protect bees, do not apply bean foliage treatments if the beans or weeds in the treatment area are in bloom.

Peppers	Aphids, Colorado Potato Beetles, Flea Beetles, Leafhoppers	2 tablespoons in 3 gals. of water to cover 1,000 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.
Potatoes	Aphids, Flea Beetles, Leafhoppers, Colorado Potato Beetles, Southern Armyworms, Dpterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts Repeat applications every 7 days up to 5 applications per season Do not apply within 35 days of harvest. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Radishes	Aphids, Flea Beetles, Leafhoppers, Imported Cabbage-worm, Dpterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts Repeat applications every 7 days up to 3 applications per season Do not apply within 14 days of harvest. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides

Crop	Pest	Rate	Timing/Special Directions
Radishes	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms
Sonch	Aphids, Flea Beetles, Leafhoppers, Dpterous Leafminers, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides
Squash, Summer	Aphids, Thrips, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 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
Squash, Winter	Aphids, Thrips, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 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

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn	Aphids, Thrips, Flea Beetles, Grasshoppers, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts Repeat applications every 7 days up to 5 applications per season Corn may be picked 7 days following last application
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 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

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Crop	Pest	Rate	Timing/Special Directions
Tomatoes	Aphids, Colorado Potato Beetles, Fall Armyworms, Flea Beetles, Leafhoppers, Southern Armyworms, Vinegar Flies (<i>Drosophila</i> spp.)	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days to 5 applications per season. Do not apply within 1 day of harvest.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Turnips and Turnip Tops	Aphids, Flea Beetles, Leafhoppers, Imported Cabbage-worm, Dipterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat applications every 7 days up to 5 applications per season. Do not apply within 14 days of harvest. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

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.

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.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician immediately. DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

IF INHALED: Remove victim to fresh air and apply artificial respiration if indicated. 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 and call a physician immediately.

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 which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

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., duck or geese, can be expected in the treated area after treatment (except spot treatment), water lawn with at least ¼ 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. 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, or snail, 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.

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