

7401-441

3/21/2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Voluntary Purchasing Groups, Inc.
c/o Ms. Mary Beth Endres
Brazos Associates, Inc.
2001 Diamond Ridge Drive
Carrollton, TX 75010-4509

MAR 21 2002

Dear Ms. Endres:

Subject: Amendment - Comply with 2000 Diazinon MOA;
Delete Almonds;
Update First Aid per PR Notice 2001-1; and
Update CSF/replacement diazinon source
ferti-lome Diazinon Water Base Concentrate
EPA Registration Number 7401-441
Your submission dated September 11, 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. Slightly revise the limitation appearing under the heading Directions For Use so that it reads "Reformulation or repackaging of this product is prohibited."
 - b. Under the heading GENERAL INFORMATION, revise item 4 of the NOTES to read "Do not apply in greenhouses."
 - c. Under the heading VEGETABLES, revise the last sentence of the introductory paragraph to read "Do not apply in greenhouses."
 - d. In the Hazards to Humans and Domestic Animals text, revise "Do not use inside the home." to read "Do not use inside the home or in greenhouses."
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 September 11, 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)

[FRONT LABEL PANEL]

This product must not be used on golf courses and sod farms

ferti•lome® DIAZINON WATER BASE CONCENTRATE

Lawn & Garden Insect Control Containing
Water Based Diazinon

- Protects: Lawns, Vegetables, Fruits & Nuts, Roses, Flowers, Trees & Shrubs
- For Outdoor Use on the Home Lawn and Home Garden Only
- Controls: Ants, Aphids, Chinch Bugs, Cutworms, Deer Ticks (which may carry Lyme Disease), Fire Ants¹, Flea Beetles, Grubs, Mites, Sod Webworms and Many Others as Listed
- Diazinon Water Based
- Low Odor Diazinon

¹Aids in control

Active Ingredient:

Diazinon: 0,0-Diethyl 0-2-Isopropyl-6-methyl-4-pyrimidinyl phosphorothioate	22.4%
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Inert Ingredients:	<u>77.6%</u>
Total:	100.0%

ACCEPTED
with COMMENTS
In EPA Letter Dated:
MAR 21 2002
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, this pesticide
is registered under Reg. No.
7401-441

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Back Panel For Additional Precautionary Statements

Net Contents _____ [One Quart Maximum]

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[BACK LABEL PANEL]

Voluntary Purchasing Groups, Inc.
Bonham, Texas 75418
EPA Reg. No. 7401-441
EPA Est. No. 7401-TX-1

[Space Reserved for UPC Code]

DIRECTIONS FOR USE

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

Reformulation or repackaging this product is prohibited.

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 VOLUNTARY PURCHASING GROUPS or the Seller. All such risks shall be assumed by the buyer. VOLUNTARY PURCHASING GROUPS 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. **VOLUNTARY PURCHASING GROUPS** makes no other express or implied warranty to Fitness or Merchantability or any other express or implied warranty. In no case shall VOLUNTARY PURCHASING GROUPS or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. VOLUNTARY PURCHASING GROUPS and the Seller offer this product, and the Buyer and use accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signing by a duly authorized representative of VOLUNTARY PURCHASING GROUPS.

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

[BACK LABEL PANEL]

GENERAL INFORMATION

ferti-lome® Diazinon Water Base Concentrate is a water-based concentrate product which must be diluted with water before application. To avoid having spray mixture left over; mix only the amount needed. 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. ferti-lome® Diazinon Water Base Concentrate works fast and application should be repeated only as directed to maintain control.

Notes: (1) Do not use inside the home, (2) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia, or orchids since injury may occur. (3) Use this product on succulent peas and beans only. Do not use on dried pea or bean varieties. (4) 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. Application should be repeated only as directed to maintain control.

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

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

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

Measurement Conversions

1 tablespoon = 3 teaspoons

1 fl. oz. = 6 teaspoons or 2 tablespoons

6 fl. oz. = ¾ cup

1½ tablespoons in 3 gals. of water = 1½ teaspoons in 1 gal. of water

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

BACK LABEL PANEL]

LAWN PEST CONTROL

PRECAUTIONS

1. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label.
2. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York, between November 1 and May 20.
3. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds and waterfowl.
4. Avoid overlapping of sprays.
5. Where 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 ¼ inch of water immediately after spraying this product, however, stop watering before puddling occurs.

Use on Bent, Bermuda, Bluegrass, Dichondra, Fescue, Merion, and St. Augustine grasses. To control pests listed apply recommended rates.

Pests	Rate		Remarks
	Diazinon Water Base Concentrate	Water	
Deer Ticks (which may carry Lyme Disease)	1½ teaspoons per 125 sq. ft. or 2.25 fl. oz. per 1,000 sq. ft.	3 gals. 24 gals.	Spray grass and under shrubbery particularly near house. Make the first application in spring when ticks are first noticed. Contact your local Cooperative Extension Service or Health Department for additional information about controlling ticks. <u>Note:</u> Do not apply this product to animals.
Lone Star Ticks	1 teaspoon per 125 sq. ft. or 1.5 fl. oz. per 1,000 sq. ft.	3 gals. 24 gals	

Lawn Chinch Bugs	1½ 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.
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Springtails (Collembola), Crickets Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs)	1½ 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	1½ tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq.ft.	3 gals. 24 gals.	<u>Note:</u> Do not apply this product to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.

Hyperodes Weevil	1½ 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	1½ 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.

Pests	Rate		Remarks
	Diazinon Water Base Concentrate	Water	
Rhodesgrass Scales	1½ tablespoons per 125 sq. ft. or 6 fl. oz. 1,000 sq.ft.	3 gals. 24 gals.	Apply when crawlers first emerge.
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			

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<p>Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs, (Pillbugs), Spiders Springtails (Collembola)</p>	<p>6 fl. oz. or 12 tablespoons</p>	<p>3 gals.</p>	<p>Thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceway, walks, garbage cans, tree trunks and into cracks and other places where insects can hide.</p> <p>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 2-3 feet. Repeat application as necessary.</p> <p>Do not treat animals with this product. Do not treat plants (other than tree trunks) at this nuisance pest rate.</p>
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Fire Ants	3 fl. oz. or 6 tablespoons	3 gals.	<p>To aid in the control of fire ants in home lawns and other outdoor home recreation areas, apply 2 tbsp. 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.</p> <p>Note: For best results, apply in cool weather 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear.</p>
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INSECT CONTROL ON 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), Oak Loopers, Oblique-banded Leafrollers Obscure Root Weevils, Omnivorous Leaf-tiers, Pear Slugs, Scale Crawlers (Cottony-cushion, 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 2 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), Thrips, Whiteflies	2 teaspoons	Apply as a thorough foliar spray. Try to spray underside of leaves and penetrate dense foliage.
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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*	CROP	PHI*
Apples	21	Nectarines	21
Apricots	21	Peaches	21
Blackberries	7	Pears	21
Blueberries	7	Plums	21
Boysenberries	7	Prunes	21
Cherries	21	Raspberries	7
Dewberries	7	Strawberries	5
Grapes	28	Walnuts	45
Loganberries	7		

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

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

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[BACK LABEL PANEL]

CROP	Pests	Rate	Timing/Special Directions
Apples	Aphids, Apple Maggots, Codling Moths, Eyespotted Budmoths, Fruit Tree Leafrollers, Leafhoppers, Mealy bugs, Scale Crawlers, (San Jose, Forbes), Spider Mites	2 teaspoons in 1 gal. 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. <u>NOTE:</u> Resistant apple maggots may not be controlled by diazinon or similar type insecticides.
Apricots	Aphids, Apricot Mealybugs, Mites (Brown, Two-Spotted Spider), Scale	2 teaspoons in 1 gal. 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

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[BACK LABEL PANEL]

CROP	Pests	Rate	Timing/Special Directions
Apricots continued	Crawlers (Olive, San Jose)		days apart. Do not apply within 21 days of harvest.
Blueberries	Aphids, Blueberry Maggots, Cherry Fruitworms, Cranberry Fruitworms, Thrips, Two-Spotted Spider Mites	2 teaspoons in 1 gal. 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 5 applications per season, a minimum of 14 days apart. Allow a minimum of 7 days between the last application and harvest.
Caneberries (CA, OR, WA only): Blackberries, Boysenberries, Dewberries Loganberries, Raspberries	Aphids, leafhoppers Raspberry Fruitworms, Two-Spotted Spider Mites, Thrips	2 teaspoons in 1 gal. of water.	Apply as a full cover spray. Do not apply more than 5 gals. per 500 sq. ft. of caneberry patch. 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 CA, OR, and WA. Do not use this product on caneberries grown in other states.

Cherries	Black Cherry Aphids Cherry Fruitflies, Cherry Fruitworms, (Maggots, Fruit Tree Leafrollers, Mites (Cherry Rust), Scale Crawlers (San Jose)	2 teaspoons in 1 gal. 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 within 21 days of harvest.
Grapes	Aphids, Leafhoppers Grape Berry Moths, Grape Leafrollers	1½ teaspoons in 1 gal. 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), Scale Crawlers (Olive, San Jose)	2 teaspoons in 1 gal. 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.

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[BACK LABEL PANEL]

CROP	Pests	Rate	Timing/Special Directions
Peaches	Aphids, Mites (Brown, Two-Spotted Spider), Scale Crawlers (Olive, San Jose)	2 teaspoons in 1 gal. 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.
Pears	Aphids, Apple Maggots, Codling Moths, Mealybugs, Scale Crawlers San Jose Forbes, Spider Mites, Tentiform Leafminers	2 teaspoons in 1 gal. 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. <u>Note:</u> Resistant apple maggots will not be controlled by diazinon or similar type insecticides.
	Pear Psylla	1-2 teaspoons in 1 gal. 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.

Plums and Prunes	Aphids,(Leafcurl Plum, Mealy Plum, Thistle), Mites (Brown, European Red)	2 teaspoons in 1 gal. 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 within 21 days of harvest.
Strawberries	Aphids, Two-Spotted Spider Mites, Strawberry Leafrollers	2 teaspoons in 1 gal. 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.
Walnuts (CA only)	Aphids, Scale Crawlers (Walnut, Italian Pear, Frosted), Spider Mites, Twig Borers	2 teaspoons in 1 gal. of water.	Apply as a full cover spray. Do not apply more than 6 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 after husks open or split. Do not apply within 45 days of harvest. This product may be used on walnuts only in CA. Do not use this product on walnuts grown in other states.

[BACK LABEL PANEL]**VEGETABLES**

For foliar or soil applications, Diazinon Water Base 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* (Days)	Crop	PHI* (Days)	Crop	PHI* (Days)
Beans ¹ <small>(succulent varieties Only)</small>	7	Crenshaw Melons	3	Persian melons	3
Lima, Pole, and Snap)		Cucumbers	7	Potatoes	35
Broccoli	7	Endive (escarole)	14	Radishes	14
Cabbage	21	Honeydew Melons	3	Rutabagas	14
Cantaloupes	3	Kale	10	Spinach	14
Carrots	14	Lettuce	14	Squash, Summer	7
Casabas Melons	3	Muskmelons	3	Squash, Winter	3
Cauliflower	7	Onions (Bulb&Green)	14	Sweet Corn	7
Chinese Broccoli	10	Parsnips	14	Tomatoes	1
Chinese Cabbage	10	Peas ¹	7	Turnips (Roots&Tops)	14
Collards	10	Peppers	5	Watermelons	3

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

¹ Succulent varieties only. Do not use this product on dried pea or bean varieties such as pinto beans, dried limas, split peas, 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.

BACK LABEL PANEL

Crop	Pests	Rate	Timing/Special Directions
Beans, Lima, Pole, and Snap (succulent varieties 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. Do not apply within 7 days of harvest.
	Cutworms (Surface, Subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 gal. 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 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water.	Spray the soil evenly 1-2 days before planting. Immediately work into soil 1-2 inches.

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	Wireworms (Snap Bean only)	6 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water.	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.
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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.

Crop	Pests	Rate	Timing/Special Directions
Beets, Red (Table)	Cutworms, (Surface, Subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 gal. 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 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water.	Spray the soil evenly 1-2 days before plantings. 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. <u>Note:</u> 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. <u>Note:</u> 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 gal. 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.
	Root Maggots	6 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water.	Spray the soil evenly just before planting. Immediately work into soil 2-3 inches.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water.	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.

Carrots	Aphids, Flea Beetles, Leafhoppers Dipterous Leaf Miners, 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. <u>Note:</u> 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 gal. 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 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water	Spray the soil evenly 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water.	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.

<p>Cauliflower</p>	<p>Aphids, Diamondback Moths, Flea Beetles Imported Cabbageworms, Dipterous Leafminers</p>	<p>1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden.</p>	<p>Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 7 days of harvest. <u>Note:</u> Resistant Leafminers will not be controlled by diazinon or similar type insecticides.</p>
<p>Chinese Broccoli</p>	<p>Aphids, Diamondback Moths, Flea Beetles Imported Cabbageworms, Dipterous Leafminers</p>	<p>1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden.</p>	<p>Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 10 days of harvest. <u>Note:</u> Resistant Leafminers will not be controlled by diazinon or similar type insecticides.</p>
<p>Chinese Cabbage (Bok Choy and Napa) Imported</p>	<p>Aphids, Diamondback Moths, Flea Beetles Imported Cabbageworms, Dipterous Leafminers</p>	<p>1 teaspoon in 1 gal. of water to cover 500 sq. ft. of garden.</p>	<p>Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. Do not apply within 10 days of harvest. <u>Note:</u> Resistant Leafminers will not be controlled by diazinon or similar type insecticides.</p>

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[BACK LABEL PANEL]

Crop	Pests	Rate	Timing/Special Directions
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. <u>Note:</u> 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. <u>Note:</u> Resistant Leafminers will not be controlled by diazinon or similar type insecticides.

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[BACK LABEL PANEL]

Crop	Pests	Rate	Timing/Special Directions
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. <u>Note:</u> 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. <u>Note:</u> 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 gal. 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 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water	Spray the soil evenly just before planting. Immediately work into soil 4-8 inches.

[BACK LABEL PANEL]

Crop	Pests	Rate	Timing/Special Directions
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, 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. <u>Note:</u> Resistant Leafminers will not be controlled by diazinon or similar type insecticides.

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[BACK LABEL PANEL]

Crop	Pests	Rate	Timing/Special Directions
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 tablespoons per 500 sq. ft. in a minimum of 1 gal. 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 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water.	Spray the soil evenly 1-2 days before planting. Immediately work into soil 1-2 inches
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 gal. 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 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.

[BACK LABEL PANEL]

Crop	Pests	Rate	Timing/Special Directions
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. <u>Note:</u> 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 of harvest. <u>Note:</u> 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 gal. 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.

[BACK LABEL PANEL]

Crop	Pests	Rate	Timing/Special Directions
Rutabagas	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. <u>Note:</u> 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 gal. 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. <u>Note:</u> Resistant Leafminers will not be controlled by diazinon or similar type insecticides.

[BACK LABEL PANEL]

Crop	Pests	Rate	Timing/Special Directions
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 7 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 3 days of harvest.

[BACK LABEL PANEL]

Crop	Pests	Rate	Timing/Special Directions
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.
	Cutworms (Surface, Subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 gal. 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 tablespoons per 500 sq. ft. in a minimum of 1 gal. of water.	Spray the soil evenly 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 gal. 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. 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 areas, 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 ORGANOPHOSPHATE PESTICIDE	
If swallowed	<ul style="list-style-type: none"> • Call 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 the poison control center or doctor. • Do not give anything by mouth to an unconscious or convulsing person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • 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 in eyes	<ul style="list-style-type: none"> • 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for help. You may also want to contact 911 for emergency medical treatment information.</p>	
<p>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.</p>	

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 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 one fourth 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.

STORAGE AND DISPOSAL

Storage: Store in original container in an area inaccessible to children and pets. If product freezes, place container in a warm room (68°F or above) inaccessible to children and pets and allow to thaw. Shake well before using.

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 and sinks) or storm sewers (for example, street drains). Triple rinse the empty container, pour the rinse water into the sprayer and spray the treated area. 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. Do not reuse empty container; securely wrap it in several layers of newspaper and discard in trash. 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.