



028293-00230-021999

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Systems Integration Group, Inc.

PM 03

28293-230

2/19/99

P5 1/21

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

Registration
Amendment
 Other NOTIFICATION

OPP Identifier Number
246731

Application for Pesticide - Section I

1. Company/Product Number 28293-230	2. EPA Product Manager ARNOLD LAYNE	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Unicorn 25EC Diazinon Lawn & Garden, Insect Control	PM# 03	
5. Name and Address of Applicant (Include ZIP Code) Unicorn Laboratories 12385 Automobile Blvd. Clearwater, FL 33762 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION FEB 19 1999
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below. Per PR Notice 98-10 Clarifying single dose labeling and show metric content for same. Front page of label.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
 This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PRN 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 & 14 of FIFRA. Section - III Two labels attached, one highlighted.

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	If "Yes" Unit Packaging wgt. No. per container		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Package wgt. No. per container			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Barry J. Santerre	Title President/Product Manager	Telephone No. (Include Area Code) (727) 578-4545
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Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title President/ Product Manager	
4. Typed Name Barry J. Santerre	5. Date 2/8/99	

26 21

UNICORN

25EC DIAZINON

Lawn & Garden Insect Control

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

For outdoor use on the home lawn and the home garden only.
{optional for Single Shot packaging}

PROTECTS

Lawns, Vegetables, Fruits and Nuts
Roses, Flowers, Trees, Shrubs

CONTROLS

Ants, Aphids, Chinch Bugs, Cutworms,
Fire Ants*, Flea Beetles, Grubs, Mites,
Sod Webworms and many others

*Aids in control

ACTIVE INGREDIENT:

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

INERT INGREDIENTS:* 75.0%

Total: 100.0%

* Contains aromatic petroleum distillates

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Side/Back Panel for Additional Precautionary Statements

NET CONTENTS:

{Single Shot: 0.334 fl. oz. (9.87 mL). Makes One (1) Gallon. No Measuring. No Mess}

MANUFACTURED BY:

Unicorn Laboratories
12385 Automobile Blvd.
Clearwater, FL 33762

NOTIFICATION

FEB 19 1999

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 toxic to birds, fish and other wildlife. 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 Atlantic Coast waterfowl, do not apply the product to lawns in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, if waterfowl, i.e., ducks and 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 irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab and other aquatic life are important resources.

Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

EPA EST. NO. 62478-FL-1A
44616-MO-1B

Subscript used is first letter
of run code on container.

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

Physical and Chemical Hazards

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

STORAGE AND DISPOSAL

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

DISPOSAL: Do not reuse empty container. Thoroughly rinse container, securely wrap 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.

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

This product 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. This product 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 in 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 green houses.

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 this product 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 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
- 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
- Single Dose 0.334 ounce = 2 teaspoons (Single Dose of 0.334 ounce)

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, 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 after spraying this product, however, stop watering before puddling occurs.

Use on Bent, Bermuda, Bluegrass, Dichondra, Fescue, Merion and St. Augustine grass. To control pest listed below, apply recommended rates.

PESTS	RATE		REMARKS
	Product	Water	
Lawn Chinch Bugs	1 ½ tablespoons per 125 sq. ft. or 6 Fl. Oz. per gals. 1,000 sq. ft. Or 2 teaspoons per 167 sq. ft.	3 gals. 24 1 gal.	Thoroughly wet down grass a few hours before applying In the North, if Cinch 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. or 2 teaspoons in 2 gallons of water covers 85 sq. ft.
Ants, Amyworms, Bermudagrass Mites, Clover Mites, Springtails (Collembola) Crickets, Cutworms, Digger Wasps, Earwigs, Fruit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs)	1 ½ tablespoons Per 125 sq. ft. or 6 Fl. Oz. per gals. 1,000 sq. ft. or 2 teaspoons per 167 sq. ft.	3 gals. 24 1 gal.	Thoroughly wet down grass a few hours before applying. For ants and digger wasps, spot spray ant hills and wasp ground next to 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 fruit flies, mow grass and water thoroughly before treatment but delay application until grass is dry.
Brown dog Ticks, Chiggers, Fleas	1 ½ tablespoons Per 125 sq. ft. or 6 Fl. Oz. per gals. 1,000 sq. ft. or 2 teaspoons per 167 sq. ft.	3 gals. 24 1 gal.	NOTE: Do not apply this product to animals. For brown dog ticks spray grass and under shrubbery particularly near house.
Hyperodes Weevil	1 ½ tablespoons Per 125 sq. ft. or 6 Fl. Oz. per gals. 1,000 sq. ft. or 2 teaspoons per 167 sq. ft.	3 gals. 24 1 gal.	Treat problem areas in mid-April and again in mid-May. Water grass thoroughly after application.

Millipedes	<p>1 ½ tablespoons 3 gals. Per 125 sq. ft.</p> <p>Or</p> <p>6 Fl. Oz. per 24 gals. 1,000 sq. ft.</p> <p>Or</p> <p>2 teaspoons per 1 gal. 167 sq. ft.</p>	Thoroughly wet grass a few hours before applying.
Rhodesgrass Scales	<p>1 ½ tablespoons 3 gals. per 125 sq. ft.</p> <p>Or</p> <p>6 Fl. Oz. per 24 gals. 1,000 sq. ft.</p> <p>Or</p> <p>2 teaspoons per 1 gal. 167 sq. ft.</p>	Apply when crawlers first emerge.
White grubs of Japanese Beetle, European Chafer, Southern Chafer	<p>1 ½ tablespoons 3 gals. per 125 sq. ft.</p> <p>Or</p> <p>6 Fl. Oz. per 24 gals. 1,000 sq. ft.</p> <p>Or</p> <p>2 teaspoons per 1 gal. 167 sq. ft.</p>	Apply any time between late July and early October. Water grass thoroughly after application.

Nuisance Pests Outside the Home	
<p>Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails (Collembola)</p>	<p>Mix 6 fl. oz. in 3 gals of water and thoroughly spray window and door screens, sills, foundation, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where the insect can hide.</p> <p>To prevent entry into houses, spray a five-foot 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>

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. 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.
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Insects Control on Ornamental Trees, Shrubs and Flowers

Trees & Shrubs	Insects	Rate per 3 Gals. Of Water	Timing/Special Directions
Arborvitae, Azaleas, Birch, Boxwood, Camellias, 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, Dipterous Leafminers (Arborvitae, Azalea, Birch, Boxwood, Holly, Oak) Leafhoppers, Mealybugs, Mites (Clover, Cyclamen, European Red, Privet, Two-spotted Spider), Obscure Root Weevils, Omnivorous Leaf-tiers, Scale Crawlers (Cottoncushion, Euonymus, Lecanum, Pine Needle, Pit, San Jose Soft	2 tablespoons or 2 tsp per 1 Gal. of water	Apply as thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage with spray.
	Webworms (Juniper, Mimosa), Whiteflies	2 tablespoons Or 2 tsp. in 1 gal. of water	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.
	Apple-and-Thorn Skeletonizers, Hemlock chermes, Oak Loopers, Obliquebanded Leafrollers Pear Slugs, Tent Caterpillars, Webworms (Cottoneaster, Fall)	2 tablespoons or 2 tsp. In 1 gal. of water.	Apply as a thorough foliar spray.

Roses & Flowers	Insects	Rate per 3 Gals. Of Water	Timing/Special Directions
Azaleas, Camellias, Chrysanthemums, Carnations, Gladioli, Lilac, Rhododendron, Roses	Aphids, Euonymus Scale Crawlers, Flea Beetles, Dipterous, Leafminers, Leafhoppers, Mealybugs, Mites (Carnation Bud, Carnation Shoot, Cyclamen, European Red, Two Spotted Spider), Thrips, Whiteflies	2 tablespoons or 2 tsp. in 1 gal. of water.	Apply as 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 *
Almonds	**
Apricots	21
Blackberries	7
Boysenberries	7
Cherries	21
Dewberries	7
Grapes	28
Loganberries	7
Nectarines	21
Peaches	21
Plums	21
Prunes	21

Raspberries	7
Strawberries	5
Walnuts	45

* 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
Almonds (CA only)	San Jose scale, Pariatoria scale	2 tablespoons in 3 gals of water OR 2 tsp. in 1 gal. of water	Apply only as a dormant spray. Do not apply more than 6 gallons per 500 sq.ft. of orchard. This product may be used on almonds only in CA. Do not use this product on almonds grown in other states.
Apricots	Aphids, Apricot Mealybugs, Mites (Brown Two-spotted Spider), Scale Crawlers (Olive, San Jose)	4 teaspoons in 2 gals of water OR 2 tsp. in 1 gal. 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.
Caneberries (CA, OR, WA only); Blackberries, Boysenberries Dewberries, Loganberries, Raspberries	Aphids Leafhoppers, Raspberry Fruitworms, Two-spotted Spider Mites, Thrips	2 tablespoons in 3 gals of water OR 2 tsp. in 1 gal. 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 CA, OR, and WA. Do not use this product on caneberries grown in other states
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 OR 2 tsp. In 1 gal. 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.

Grapes	Aphids, Leafhoppers Grape Berry Moths, Grape Leafrollers	4 ½ 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 28 days of harvest.
Nectarines	Aphids, Mites (Brown Two Spotted Spider), Scale Crawlers (Olive San Jose)	4 teaspoons in 2 gals of water OR 2 tsp. in 1 gal. 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.
Peaches	Aphids, Mites (Brown Two Spotted Spider), Scale Crawlers (Olive San Jose)	4 teaspoons in 2 gals of water OR 2 tsp. in 1 gal. 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 (Leafcurl Plu, Mealy Plum, Thistle), Mites (Brown, European Red)	4 teaspoons in 2 gals of water OR 2 tsp. in 1 gal. 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, Two spotted Spider Mites, Strawberry Leafrollers	2 tablespoons in 3 gals of water OR 2 tsp. in 1 gal. 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.
Walnuts (CA only)	Aphids, Scale Crawlers (Walnut Italian Pear, Frosted), Spider Mites, Twig Borers	2 tablespoons in 3 gals of water OR 2 tsp. in 1 gal. of water.	Apply as a full cover spray. Do not apply more than 6 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 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.

Vegetables

For foliar or soil applications, this product 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 Interval (PHI *) for Foliar Applications	
Crop	PHI * (DAYS)
Beans ¹ (Succulent varieties only: Lima, Pole, and Snap)	7
Broccoli	7
Cabbage	21
Cantaloupes	3
Carrots	14
Casabas	3
Cauliflower	7
Chinese Broccoli, Chinese Cabbage, Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	14
Honeydew Melons	3
Kale	10
Lettuce	14
Muskmelons	3
Onions (Bulb and Green), Parsnips	14
Peas ¹	7
Peppers	5
Potatoes (Irish)	35
Radishes, 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.

¹ 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, Spider Mites	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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 ½ gals of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. of water	Broadcast to the soil just before planting. Immediately work in 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 ½ gals of water, or 2 tsps.per 85 sq.ft.in a minimum of 1 gal. 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 1 ½ gals of water, or 2 tsps.per 85 sq.ft.in a minimum of 1 gal. of water.	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.

NOTE: (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 treatment if the beans or weeds in the treatment area are in bloom.

Crop	Pest	Rate	Timing/Special Directions
Beets, Red (Table)	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 ½ gallons of water, or 2 tsps. per 85 sq. ft. in a minimum of 1 gal. 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 ½ gallons of water, or 2 tsps. per 111 sq. ft. in a minimum of 1 gal. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms Dipterous Leafminers	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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: Resistent Leafminers will not be controlled by diazinon or similar type insecticides.
Cabbage	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms Dipterous Leafminers	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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 1 ½ gallons of water, or 2 tsps per 85 sq. ft. in a minimum of 1 gal. 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 1 ½ gallons of water, or 2 tsps per 85 sq. ft. in a minimum of 1 gal. of water.	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches.

	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 ½ gallons of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. of water.	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Carrots	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites	2 tablespoons in 3 gallons of water to cover 1,000 sq.ft. of garden, or 2 tsps in 1 gal.of water to cover 334 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 ½ gallons of water or 2 tsps per 85 sq.ft. in a minimum of 1 gal. 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 gallons of water, or 2 tsps per 111 sq.ft.in a minimum of 1 gal. 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 ½ gallons of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. of water.	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Cauliflower	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms Dipterous Leafminers	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal.of water to cover 334 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 Cabbageworms Dipterous Leafminers	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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.
Chinese Cabbage (Bok Choy and Nappa)	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms Dipterous Leafminers	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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.
Collards	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms Dipterous Leafminers	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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, or 2 tsps in 1 gal. of water to cover 334 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.
Endive (Escarole)	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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 Cabbageworms Dipterous Leafminers	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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, Dipterous Leafminers, Spider Mites	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps. in 1 gal. of water to cover 334 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 ½ gallons of water, or 2 tsps per 85 sq. ft. in a minimum of 1 gal. 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 1 ½ gallons of water, or 2 tsps per 85 sq. ft. in a minimum of 1 gal. of water.	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Melons (Cantaloupes, Cassabas, Crenshaws, Honeydews, Muskmelons, Persians & Hybrids of these) & Watermelons	Aphids, Thrips, Spider Mites	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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 & Green)	Onion Thrips	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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.

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, or 2 tsps in 1 gal. of water to cover 334 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 gallons of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. 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 gallons of water, or 2 tsps per 111 sq.ft.in a minimum of 1 gal. 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 gallons of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. 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 pea varieties such as split peas or dried black-eyed peas. (2) To protect bees, do not apply foliage treatment if peas 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, or 2 tsps in 1 gal. of water to cover 334 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	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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. NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.

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Radishes	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Imported Cabbageworms	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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. 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 ½ gallons of water, or 2 tsps per 85 sq. ft. in a minimum of 1 gal. 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.
Spinach	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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, or 2 tsps in 1 gal. of water to cover 334 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, or 2 tsps in 1 gal. of water to cover 334 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.
Sweet Corm	Aphids, Thrips, Flea Beetles, Grasshoppers, Spider Mites	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal. of water to cover 334 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 ½ gallons of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. 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 ½ gallons of water, or 2 tsps per 111 sq.ft.in a minimum of 1 gal. 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 ½ gallons of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. 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.

Crop	Pest	Rate	Timing/Special Directions
Tomatoes	Aphids, Colorado Potato Beetles, Fall Armyworms, Flea Beetles, Leafhoppers, Southern Armyworms, Vinegar Flies (Drosophila spp.)	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal.of water to cover 334 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.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 ½ gallons of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. 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 1 ½ gallons of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. of water.	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Turnips & Turnip Tops	Aphids, Flea Beetles, Leafhoppers, Imported Cabbageworms Dipterous Leafminers	2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsps in 1 gal.of water to cover 334 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 ½ gallons of water, or 2 tsps per 85 sq.ft.in a minimum of 1 gal. 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.