



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Mr. Lee Tharrington
Unicorn Laboratories
12385 Automobile Blvd.
Clearwater, FL 33762

SEP 27 2001

Dear Mr. Tharrington:

Subject: Amendment - Comply with 2000 Diazinon MOA,
Delete almonds,
Update First Aid per PR Notice 2001-1,
And Update CSF/replacement diazinon source
Unicorn 25EC Diazinon
EPA Registration Number 28293-230
Your submission dated May 29, 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. In the Environmental Hazards, revise "stop irrigation before puddling occurs" to read "stop watering before puddling occurs". Also, replace the sentence "Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark." with "Do not apply directly to water."
 - b. Under the heading General Information, replace the sentence "Do not apply to food crops grown in green houses." with "Do not apply this product in greenhouses."
 - c. Align the columns in the Measurement Conversions chart.
 - d. Under the heading Lawn Pest Control, revise "Where irrigation (watering)is..." to read "Where watering is..."

- e. In the Lawn Pest Control table correct the pest name Fruit Flies to Frit Flies in both the Pests and Remarks columns.
 - f. Revise the heading "Insects Control on Ornamental Trees, Shrubs, and Flowers" to read "Insect Control on Ornamental Trees, Shrubs, and Flowers". After this heading, add "Spray when listed pests first appear. Repeat as necessary."
 - g. In the listing of Insects under the heading "Insect Control on Ornamental Trees, Shrubs, and Flowers" and in all other listings of insect on this label, be sure to add a comma after each pest name or after the closing parenthesis mark of a group of pest names (except, of course, after the last name in a list). Also, in this first pest listing, add a closing parenthesis mark after the scale crawlers names "San Jose, Soft".
 - h. Under the PHI table for Fruits and Nuts, delete the double asterisk footnote "** Dormant spray only", since there is no longer any crop Almonds to which this note referred.
 - i. In the Timing/Special Directions for Fruits and Nuts, add "home" before "orchard" wherever it appears and also before "vinyard". Also, revise "field" for Caneberries to "caneberry patch" and "field" for strawberries to "strawberry patch".
 - j. For all foliar applications to vegetables (i.e., for listings generally starting with Aphids, etc., and for the entry for Onion Thrips) revise the Rate to reflect Syngenta's current Residue Chemistry data. Replace "2 tablespoons in 3 gals of water to cover 1,000 sq. ft. of garden, or 2 tsp. in 1 gallon of water to cover 334 sq. ft. of garden" with "1 teaspoon in 1 gallon of water to cover 500 sq. ft. of garden".
 - k. For all vegetables with directions for control of Mole Crickets, the 2 teaspoon Rate (variously given as for 85 or 111 sq. ft.) should be for 170 sq. ft. of garden.
 - l. For all soil applications for vegetables, in the Timing/Special Directions column replace the term "Broadcast to the soil" with "Spray the soil evenly".
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.
5. Do not package this product in container sizes larger than 1 quart.

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 May 29, 2001 and identifying your 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)

4 8 24

**ACCEPTED
with COMMENTS
In EPA Letter Dated:
SEP 27 2001**

UNICORN

25EC DIAZINON

Lawn & Garden Insect Control

*Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, and the Federal
Registration Act, 1906, 1907, and
28293-230*

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

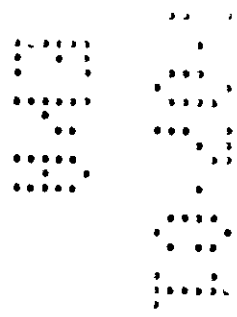
For outdoor use on the home lawn and the home garden only.
{optional for Single Shot packaging}

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

EPA EST. NO. 62478-FL-1A
44616-MO-1B
Subscript used is first letter
of run code on container.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

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

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious or convulsing person.
IF 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 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
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.

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.

Reformulation or repackaging this product is prohibited.

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

General Information

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 1,000 sq. ft. Or 2 teaspoons per 167 sq. ft.	3 gals. 24 gals. 1 gal.	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. 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 1,000 sq. ft. or 2 teaspoons per 167 sq. ft.	3 gals. 24 gals. 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 files, mow grass and water thoroughly before treatment but delay application until grass is dry.

PESTS	RATE		REMARKS
	Product	Water	
Brown dog Ticks, Chiggers, Fleas	1 ½ tablespoons Per 125 sq. ft. or 6 Fl. Oz. per 1,000 sq. ft. or 2 teaspoons per 167 sq. ft.	3 gals. 24 gals. 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 1,000 sq. ft. or 2 teaspoons per 167 sq. ft.	3 gals. 24 gals. 1 gal.	Treat problem areas in mid-April and again in mid-May. Water grass thoroughly after application.
Millipedes	1 ½ tablespoons Per 125 sq. ft. Or 6 Fl. Oz. per 1,000 sq. ft. Or 2 teaspoons per 167 sq. ft.	3 gals. 24 gals. 1 gal.	Thoroughly wet grass a few hours before applying.
Rhodesgrass Scales	1 ½ tablespoons per 125 sq. ft. Or 6 Fl. Oz. per 1,000 sq. ft. Or 2 teaspoons per 167 sq. ft.	3 gals. 24 gals. 1 gal.	Apply when crawlers first emerge.
White grubs of Japanese Beetle, European Chafer Southern Chafer	1 ½ tablespoons per 125 sq. ft. Or 6 Fl. Oz. per 1,000 sq. ft. Or 2 teaspoons per 167 sq. ft.	3 gals. 24 gals. 1 gal.	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>
<p>Fire Ants</p>	<p>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.</p>

Insects Control on Ornamental Trees, Shrubs and Flowers

Trees & Shrubs	Insects	Rate per 3 Gals. Of Water	Timing/Special Directions
<p>Arborvitae, Azaleas, Birch, Boxwood, Camellias, Douglas Fir, Elm, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Spruce, Willow</p>	<p>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 Leafhoppers, Scale Crawlers (Cottoncushion, Euonymus, Lecanum, Pine Needle, Pit, San Jose Soft)</p>	<p>2 tablespoons or 2 tsp per 1 Gal. of water</p>	<p>Apply as thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage with spray.</p>

EPA EST. NO. 62478-FL-1A
 44616-MO-1B
 Subscript used is first letter of run code on container.

11724

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	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 Camations, 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 *
Apricots	21
Blackberries	7
Boysenberries	7

EPA EST. NO. 62478-FL-1A
 44616-MO-1B
 Subscript used is first letter
 of run code on container.

12724

Crop	PHI *
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
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

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

Subscript used is first letter of run code on container.

Crop	Pest	Rate	Timing/Special Directions
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.

Crop	Pest	Rate	Timing/Special Directions
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.

<u>Pre-Harvest Interval (PHI *) for Foliar Applications</u> 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

EPA EST. NO. 62478-FL-1A
44616-MO-1B
Subscript used is first letter
of run code on container.

Pre-Harvest Interval (PHI *) for Foliar Applications	
Crop	PHI * (DAYS)
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.

Crop	Pest	Rate	Timing/Special Directions
Beans Lima, Pole and Snap (succulent varieties only)	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.

Crop	Pest	Rate	Timing/Special Directions
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.

18724

Crop	Pest	Rate	Timing/Special Directions
Carrots	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.

19 7 24

Crop	Pest	Rate	Timing/Special Directions
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.

EPA EST. NO. 62478-FL-1A
44616-MO-1B
Subscript used is first letter
of run code on container.

Crop	Pest	Rate	Timing/Special Directions
Lettuce	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.

Crop	Pest	Rate	Timing/Special Directions
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 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.

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.

Crop	Pest	Rate	Timing/Special Directions
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.

Crop	Pest	Rate	Timing/Special Directions
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.
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.

EPA EST. NO. 62478-FL-1A
44616-MO-1B
Subscript used is first letter
of run code on container.

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, 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 (<i>Drosophila</i> 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.

Tomatoes	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.