

16-157

12/12/2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Mr. Thomas McEntee
Dragon Chemical Corporation
71 Carolyn Blvd.
Farmingdale, NY 11735

DEC 12 2002

Dear Mr. McEntee:

Subject: Amendment - Comply with 2000 Diazinon MOA;
Delete Almonds;
Update First Aid per PR Notice 2001-1; and
Update CSF/replacement diazinon source
Dragon 25% Diazinon Spray
EPA Registration Number 16-157
Your submissions dated October 25 and December 10, 2002

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

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. On the front panel claims, revise "and many others" to read "and many others as listed in Directions For Use".
 - b. In the Hazards to Humans and Domestic Animals, revise the sentence "Do not use inside the home" to read "Do not use inside the home or in greenhouses."
 - c. In the FIRST AID section add a fourth item to the If swallowed advice to read " Do not induce vomiting or give anything by mouth if person is unconscious or convulsing."
 - d. In the ENVIRONMENTAL HAZARDS section, revise the beginning of the seventh sentence so that it reads, "For lawns, where watering is recommended in the directions, ..."
 - e. Delete "Reformulating or repackaging is prohibited" from beneath the GENERAL INFORMATION Notes. Instead, under the heading Directions For Use, after the sentence beginning "It is a violation of Federal law..." add "Reformulation or repackaging of this product is prohibited."

- f. Under the heading GENERAL INFORMATION, revise item 5 of the NOTES to read "Do not apply in greenhouses."
 - g. For each of the Fruit and Nut crops except Grapes, revise the Rate entry to read "2 tsp. per 1 gal. of water". For Grapes, revise the rate to read "1 1/2 tsp. Per 1 gal. of water".
 - h. Under the heading VEGETABLES, revise the last sentence of the introductory paragraph to read "Do not apply in greenhouses."
 - i. For every vegetable crop with foliar application (i.e., usually including the pest Aphids plus others), revise (lower) the Rate to "1 tsp. in 1 gal. of water to cover 500 sq. ft. of garden".
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 November 5, 2002 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)

DRAFT

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**DRAGON®
25% DIAZINON SPRAY**

Nothing Beats The Dragon!

Protects lawns, vegetables, fruits, nuts, roses, flowers, ornamentals, trees and shrubs

Controls ants, aphids, chinch bugs, cutworms, flea beetles, grubs, mites, sod webworms and many others.

Aids in control of fire ants.

Spray concentrate.

Controls many "hard-to-kill" sucking and chewing insects.

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

[Note to EPA: Label front panel may feature graphics representing insects controlled, e.g., grubs, mites, ants..]

ACTIVE INGREDIENT:

Diazinon [O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl)phosphorothioate] 25%

INERT INGREDIENTS*: 75%

TOTAL 100%

*Contains aromatic petroleum distillates.

**Keep Out of Reach of Children
CAUTION**

See back/side/other panel(s) for additional precautions.
NET CONTENTS 1 QT (32 FL OZ)/1 PT (16 FL OZ)/8 FL OZ

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 victim 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.

REFER TO APPENDIX A

ACCEPTED
with COMMENTS
In EPA Letter Dated:

DEC 1 2 2002

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 16-157

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

ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, Between November 1 and May 20. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowls. Avoid overlapping of sprays. For lawns, where irrigation (watering) is recommended in the directions, or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water. 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 washwaters.

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

PHYSICAL OR CHEMICAL HAZARDS: Do not use, pour, spill or store near heat or open flame.

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.

[SEE ADDITIONAL USE PRECAUTIONS AND DIRECTIONS IN ATTACHED BOOKLET]

GENERAL INFORMATION: DRAGON 25% Diazinon 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. Dragon 25% Diazinon works fast and applications should be repeated only as directed to maintain control.

- NOTE:**
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 greenhouses.

★ REFORMULATING OR REPACKAGING THIS PRODUCT IS PROHIBITED

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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 Dragon 25% Diazinon 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 (Tbs) = 3 teaspoons (Tsp)
- 1 fl. oz. = 6 Tsp or 2 Tbs
- 6 fl. oz. = 3/4 cup
- 1 1/2 Tbs in 3 gals of water = 1 1/2 Tsp in 1 gal of water
- 2 Tbs in 3 gals of water = 2 Tsp in 1 gal of water

After spraying, wait the following number of days before harvesting fruits, nuts or vegetables:

- 1 day Tomatoes
- 3 days Melons, Winter squash
- 5 days Peppers, Strawberries
- 7 days Beans, Broccoli, Blackberries, Boysenberries, Cauliflower, Cucumbers, Dewberries, Loganberries, Peas, Raspberries, Summer Squash, Sweet Corn
- 10 days Chinese broccoli, Chinese cabbage, Collards, Kale
- 14 days Carrots, Endive (Escarole), Lettuce, Onions (bulb and green), Parsnips, Radishes, Spinach, Turnips
- 21 days Apricots, Cabbage, Cherries, Nectarines, Peaches, Plums, Prunes
- 28 days Grapes
- 35 days Potatoes (Irish)
- 45 days Walnuts
- ** Almonds (one dormant spray only)

+The following Problem Area/Pest table is only a partial listing of the pests controlled by this product. See (additional tables that follow/attached booklet) for complete directions for use and pests controlled.

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Problem Area	Pests+
Nuisance Pests in Outside Areas	Ants, Brown dog ticks, Chiggers, Cockroaches, Crickets, Fleas, Fire ants, Spiders and others+
Lawns	Chinch bugs, Ants, Sod webworms, Brown dog ticks, Fleas, White grubs, Lawn billbugs and others+
Vegetables: Foliar Application	Beans, Peas (except dried variety)
Broccoli, Chinese broccoli, Cabbage, Chinese cabbage, Cauliflower, Collards, Kale	Aphids, Cucumber beetles, Grasshoppers, Leafhoppers, Mexican bean beetles, Spider mites
Endive (Escarole), Lettuce, Spinach	Aphids, Flea beetles, Dipterous leafminers, Diamondback moths, Imported cabbageworms
Peppers, Tomatoes	Aphids, Flea beetles, Leafhoppers, Dipterous leafminers, Spider mites
Onions (bulb and green)	Aphids, Colorado potato beetles, Fall armyworms (tomatoes), Flea beetles, Leafhoppers, Southern armyworms (tomatoes), Vinegar flies - <i>Drasophila spp.</i> (tomatoes)
Radishes, Turnips, Carrots, Parsnips, Potatoes	Onion thrips
Sweet corn	Aphids, Flea beetles, Leafhoppers, Dipterous leafminers, Colorado potato beetles (potatoes), Southern armyworms (potatoes)
Melons, Squash (summer, winter)	Aphids, Flea beetles, Grasshoppers, Spider mites
Vegetables: Preplant Soil Application	Beans, Peas (except dried varieties)
Beets, Red (table)	Cutworms, Mole crickets, Wireworms (snap beans)
Cabbage	Cutworms, Mole crickets
Carrots, Sweet Corn	Cutworms, Root maggots, Wireworms
Lettuce, Tomatoes	Cutworms, Mole crickets, Wireworms
Radishes, Turnips	Cutworms, Wireworms
Fruits & Nuts	Almonds (California only)
	Scale crawlers



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Problem Area		Pests+
	Walnuts (California only)	Aphids, Scale crawlers, Spider mites and others+
	Apricots, Peaches, Nectarines	Aphids, Apricot mealybugs (apricots), Spider mites, Scale crawlers
	Cherries	Black cherry aphids, Cherry fruitflies, Cherry rust mites, Scale crawlers and others+
	Plums, Prunes	Aphids, Spider mites
Fruits & Nuts (cont'd.)	Caneberries (CA, OR, WA only): Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries	Aphids, Leafhoppers, Two-spotted spider mites, Thrips, Raspberry fruitworms
	Strawberries	Aphids, Two-spotted spider mites, Strawberry leafrollers
	Grapes	Aphids, Grape berry moths, Grape leafrollers, Leafhoppers
Roses & Flowers	Azaleas, Camellias, Chrysanthemums, Carnations, Gladioli, Lilac, Rhododendron, Roses	Aphids, Flea beetles, Dipterous leafminers, Leafhoppers, Mealybugs, Two-spotted spider mites, Thrips, Whiteflies and others+
Ornamental Trees & Shrubs	Arborvitae, Azaleas, Birch, Boxwood, Camellias, Douglas fir, Elm, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Ornamental plum, Poplar, Rhododendron, Spruce, Willow	Aphids, Mites, Scale crawlers, Whiteflies, Tent caterpillars and others+

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 21. 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 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 grass.

To control pests listed below, apply *recommended* rates.

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LAWN PEST CONTROL			
Pests	Rate		Remarks
	Dragon 25% Diazinon	Water	
Lawn Chinch Bugs	1½ Tbs per 125 sq ft or 6 fl. oz. per 1,000 sq ft	3 gal 24 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 Tsp 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 (<i>Collembola</i>), Crickets, Cutworms, Digger wasps, Earwigs, Frit flies, Lawn billbugs, Leafhoppers, Sod webworms (Lawn moths), Sowbugs (Pillbugs)	1½ Tbs per 125 sq ft or 6 fl. oz. per 1,000 sq ft	3 gal 24 gal	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 Tbs per 125 sq ft or 6 fl. oz. per 1,000 sq ft	3 gals 24 gals	NOTE: DO NOT APPLY THIS PRODUCT TO ANIMALS. For brown dog ticks spray grass and under shrubbery, particularly near house.
Hyperodes Weevil	1½ Tbs 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 Tbs per 125 sq ft or 6 fl. oz. per 1,000 sq ft	3 gals 24 gals	Thoroughly wet grass a few hours before applying.
Rhodesgrass scale	1½ Tbs per 125 sq ft or 6 fl. oz. per 1,000 sq ft	3 gals 24 gals	Apply when crawlers first emerge.

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LAWN PEST CONTROL			
Pests	Rate		Remarks
	Dragon 25% Diazinon	Water	
White grubs of Japanese beetle, European chafer, Southern chafer	1 1/2 Tbs per 125 sq ft	3 gals	Apply any time between late July and early October. Water grass thoroughly after application.
	or 6 fl. oz. per 1,000 sq ft	24 gals	

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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 (<i>Collembola</i>)</p>	<p>Mix 6 fl. oz. in 3 gals of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks and into cracks and other places where insects 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 Tbs 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>

INSECT CONTROL ON ORNAMENTAL TREES, SHRUBS, ROSES AND FLOWERS			
Plants	Insects	Rate per 3 Gal of Water	Timing/ Special Directions
<p>Trees and Shrubs 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 (Cottony cushion, Euonymus, Lecanium, Pine needle, Pit, San Jose, Soft)</p>	2 Tbs	Apply as a thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage with spray.
	<p>Webworms (Juniper, Mimosa), Whiteflies</p>	2 Tbs	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.

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INSECT CONTROL ON ORNAMENTAL TREES, SHRUBS, ROSES AND FLOWERS			
Plants	Insects	Rate per 3 Gal of Water	Timing/ Special Directions
Trees and Shrubs-cont'd. Arborvitae, Azaleas, Birch, Boxwood, Camellias, Douglas fir, Elm, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Ornamental plum, Poplar, Rhododendron, Spruce, Willow	Apple-and-Thorn skeletonizers, Hemlock chermes, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars, Webworms, (Cotoneaster, Fall)	2 Tbs	Apply as a thorough foliar spray.
Roses and Flowers Azaleas, Camellias, Chrysanthemums, Carnations, Gladioli, Lilac, Rhododendron, Roses	Aphids, Eonymus scale crawlers, Flea beetles, Dipterous leafminers, Leafhoppers, Mealybugs, Mites (Carnation bud, Carnation shoot, Cyclamen, European red, Two-spotted spider), Thrips, Whiteflies	2 Tbs	Apply as a thorough foliar spray. Try to spray underside of leaves and penetrate dense foliage.

FRUITS AND NUTS

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

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

Crop	PHI*	Crop	PHI*
Almonds	**	Nectarines	21
Apricots	21	Peaches	21
Blackberries	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 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.

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FRUITS AND NUTS			
Crop	Pest	Rate	Timing/Special Directions
Almonds (CA only)	San Jose scale, Parlatoria scale	2 Tbs. per 3 gals. 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 Tsp. per 2 gals. 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 Tbs. per 3 gals. 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), Fruitree leafrollers, Mites (Cherry rust), Scale crawlers (San Jose)	4 Tsp. per 2 gals. 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	4½ Tsp. per 3 gals. 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 Tsp. per 2 gals. 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.

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FRUITS AND NUTS			
Crop	Pest	Rate	Timing/Special Directions
Peaches	Aphids, Mites (Brown, Two-spotted spider), Scale crawlers (Olive, San Jose)	4 Tsp. per 2 gals. 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 plum, Mealy plum, Thistle), Mites (Brown, European red)	4 Tsp. per 2 gals. 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 Tbs. per 3 gals. 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 Tbs. per 3 gals. 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 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. DRAGON® 25% Diazinon 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.

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Pre-Harvest Interval (PHI*) for Foliar Applications

Crop	PHI* (Days)	Crop	PHI* (Days)	Crop	PHI* (Days)	Crop	PHI* (Days)
Beans ¹	7	Cauliflower	7	Kale	10	Radishes	14
(succulent varieties only: Lima, Pole & Snap)		Chinese Broccoli	10	Lettuce	14	Spinach	14
Broccoli	7	Chinese Cabbage	10	Muskmelons	3	Squash, Summer	7
Cabbage	21	Collards	10	Onions-bulb & green	14	Squash, Winter	3
Cantaloupes	3	Crenshaws	3	Parsnips	14	Sweet Corn	7
Carrots	14	Cucumbers	7	Peas ¹	7	Tomatoes	1
Casabas	3	Endive (Escarole)	14	Peppers	5	Turnips-roots & tops	14
		Honeydew Melons	3	Potatoes (Irish)	35	Watermelons	3

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

¹DO 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 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 5 days up to 3 applications per season. DO NOT apply within 7 days of harvest.
NOTE: (1) DO NOT apply this product to dried bean varieties such as pinto beans or dried limas. (2) To protect	Cutworms (surface, subterranean)	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Moie Crickets	2 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms (snap beans only)	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Beets, Red (table)	Cutworms (surface, subterranean)	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

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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
Beets, Red (table) - cont'd.	Mole Crickets	2 Tbs. per 500 sq. ft. in a minimum of 1½ gals. 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 ¹	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 7 days of harvest.
Cabbage	Aphids, Diamondback moths, Flea beetles, Imported cabbageworms, Dipterous leafminers ¹	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 21 days of harvest.
	Curworms (surface, subterranean)	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. 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 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches.
	Wireworms	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Carrots	Aphids, Flea beetles, Leafhoppers, Dipterous leafminers ¹ , Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 14 days of harvest.
	Curworms (surface, subterranean)	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. 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 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.

17/22

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
	Wireworms	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. 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 ¹	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 7 days of harvest.
Chinese Broccoli	Aphids, Diamondback moths, Flea beetles, Imported cabbageworms, Dipterous Leafminers ¹	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 10 days of harvest.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback moths, Flea beetles, Imported cabbageworms, Dipterous leafminers ¹	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 10 days of harvest.
Collards	Aphids, Diamondback moths, Flea beetles, Imported cabbageworms, Dipterous leafminers ¹	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 10 days of harvest.
Corn - see Sweet Corn			
Cucumbers	Aphids, Thrips, Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	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 ¹ , Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 14 days of harvest.
Kale	Aphids, Diamondback moths, Flea beetles, Imported cabbageworms, Dipterous leafminers ¹	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 10 days of harvest.

18/22

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
Lettuce	Aphids, Flea beetles, Leafhoppers, Dipterous leafminers ¹ , Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 14 days of harvest.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
Lettuce cont'd.	Wireworms	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and hybrids of these) and Watermelons	Aphids, Thrips, Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	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	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	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 ¹ , Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat applications every 7 days up to 5 applications per season. DO NOT apply within 14 days of harvest.
Peas (succulent only)	Aphids, Cucumber beetles, Grasshoppers, Leafhoppers, Mexican bean beetles, Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	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.
NOTE: (1) DO NOT apply this product to dried pea varieties such as split peas or	Cutworms (surface, subterranean)	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

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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
dried black-eyed peas. (2) To protect bees, DO NOT apply foliage treatments if peas or weeds in the treatment area are in bloom.	Mole crickets	2 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Peppers	Aphids, Colorado potato beetles, Flea beetles, Leafhoppers	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	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	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 35 days of harvest.
Radishes	Aphids, Flea beetles, Leafhoppers, Imported cabbageworms, Dipterous leafminers ¹	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 3 applications per season. DO NOT apply within 14 days of harvest.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. 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 ¹ , Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 14 days of harvest.
Squash, summer	Aphids, Thrips, Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	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 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 3 days of harvest.

20/22

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
Sweet corn NOTE: To protect bees, do not apply to corn foliage during the pollen shed period.	Aphids, Thrips, Flea beetles, Grasshoppers, Spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	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 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
Sweet corn cont'd. NOTE: To protect bees, do not apply to corn foliage during the pollen shed period.	Mole crickets	2 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Tomatoes	Aphids, Colorado potato beetles, Fall armyworms, Flea beetles, Leafhoppers, Southern armyworms, Vinegar flies (<i>Drosophila spp.</i>)	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	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 Tbs. per 500 sq. ft. in a minimum of 1½ gals. 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 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Turnips and Turnip tops	Aphids, Flea beetles, Leafhoppers, Imported cabbageworms, Dipterous leafminers ¹	2 Tbs. in 3 gals. of water to cover 1,000 sq. ft.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. DO NOT apply within 14 days of harvest.

21/22

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
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq. ft. in a minimum of 1½ gals. water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

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

STORAGE & DISPOSAL

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

DISPOSAL: To avoid harming aquatic organisms in rivers and other surface waters, do not pour the concentrate, spray mixture, or rinse water into sanitary drains (e.g., toilets and sinks) or storm water sewers (e.g., 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.

NOTICE: Buyer assumes all risks of storage, use and handling of this material not in strict accordance with directions and cautions stated on this label (and in the accompanying booklet).

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DRAGON CORPORATION
Roanoke, VA 24019

APPENDIX A

22/22

FIRST AID	
Have label with you when obtaining treatment advice.	
If swallowed	<ul style="list-style-type: none">•Call a poison control center, doctor, or 1-800-xxx-xxxx¹ 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.²
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, doctor, or 1-800-xxx-xxxx immediately for treatment advice.
If inhaled	<ul style="list-style-type: none">•Move person to fresh air.•If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.•Call a poison control center, doctor, or 1-800-xxx-xxxx immediately 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, doctor, or 1-800-xxx-xxxx immediately for treatment advice.

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¹Toll free telephone number is optional throughout.

²Use all statements for each route of exposure if Toxicity Category is 1, 2, or 3. Statements are optional if Toxicity Category is 4.

