

437387

Ms. Christina Lawes  
Ford's Chemical & Service, Inc.  
3741 Red Bluff Road, Suite 200  
Pasadena, TX 77503

MAR 22 1993

Dear Ms. Lawes:

Subject: Amendment - Change to "Caution" Formula  
Diazinon Emulsifiable Lawn and Garden Insecticide  
EPA Reg. No. 10370-38  
Your submission dated July 22, 1992

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

- 1) On the front of the container label, under the signal word CAUTION, there is a note to "See end of booklet for additional precautionary statements". Since the full text of the precautionary statements is present on the container label itself, a better note would be "See back of container for additional precautionary statements" (or side of container if that is where the precautionary text ends up in actual production). If the precautionary text will actually appear on the front panel, as is implied on the draft labeling, then no referral to this text would be necessary.

A stamped copy of the label is enclosed for your records. The replacement Confidential Formula (CSF) dated July 22, 1992 is acceptable and has been added to this product's registration file,

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

Sincerely,

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

**ford's**

2 of 13  
ACCEPTED  
with COMMENTS  
in EPA Letter Dated

## DIAZINON 25%

MAR 22 1993

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

10370-38

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

For outdoor use on  
the home lawn and  
the home garden  
only.

Spray concentrate.  
Contains diazinon  
insecticide.

Active Ingredient:  
Diazinon: O, O-Dimethyl  
O-(2-isopropyl-6-  
methyl-4-pyrimidinyl)  
phosphoro-  
thioate . . . . . 25.0%

Inert  
Ingredients\*: 75.0%

Total: 100.0%

\* Contains aromatic  
petroleum distillates.

KEEP OUT OF REACH  
OF CHILDREN.

### CAUTION

See end of booklet for  
additional precautionary  
statements

EPA Reg. No. 10370-38

**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**

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### Net Contents

See full label in booklet for complete directions for mixing and applying this  
product and a complete list of pests controlled.

#### Statement of Practical Treatment

If swallowed: Call a physician immediately. DO NOT INDUCE VOMITING UNLESS  
OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneu-  
monia. 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.

### Precautionary Statements

#### Hazards to Humans and Domestic Animals

##### CAUTION

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

#### Environmental Hazards

This product is highly toxic to birds, fish, and other wildlife. Birds, especially water-  
fowl, feeding or drinking on treated areas may be killed. Because of the migratory  
habits of certain Atlantic Coast waterfowl, do not apply this product in Nassau County,  
New York, between November 1 and May 20. Do not exceed maximum permitted label rates.  
Application rates above those recommended significantly increase potential hazards to birds  
and waterfowl. Avoid overlapping of  
sprays. For lawns, where irrigation (watering) is recommended in the directions or if  
waterfowl, i.e., duck or geese, can be expected in the treated area after treatment  
(except spot treatment), water lawn with at least 1/4 inch of water immediately after  
spraying this product, however, stop watering before puddling occurs. Keep out of  
lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to  
a place where surface water is present, or to intertidal areas below the mean high  
water mark. Runoff may be hazardous to aquatic organisms in neighboring areas.  
Shrimp and crab may be killed at application rates recommended on this label. Do  
not apply where fish, shrimp, crab, and other aquatic life are important resources. Do  
not contaminate water by cleaning of equipment or disposal of equipment wash  
waters.

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

#### Physical or 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 and pets. USE CONTENTS WITHIN 6 MONTHS AFTER OPENING.

#### Disposal

Do not reuse empty container. Thoroughly rinse container, securely wrap it in several  
layers of newspaper and discard in trash. If disposal of a partially full container is  
necessary, make sure cap is tightly closed, securely wrap the container in several layers  
of newspaper and discard in trash.

## 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

Diazinon 25% is an emulsifiable concentrate product which must be diluted with water before application. This product kills many outdoor pests which damage lawns, roses, flowers, trees, shrubs, vegetables and fruits and insects which annoy pets and people.

SEE THE BOOKLET UNDER CAP FOR COMPLETE DIRECTIONS FOR USE AND PESTS CONTROLLED.

**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 plant 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.

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)

**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.

\*This table is only a partial listing of the pests controlled by this product. See booklet under cap for complete directions for use and pests controlled.

### 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 varieties)

Aphids, Cucumber Beetles, Grasshoppers, Leafhoppers, Mexican Bean Beetles, Spider Mites

##### Broccoli, Chinese Broccoli, Cabbage, Chinese Cabbage, Cauliflower, Collards, Kale

Aphids, Flea Beetles, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworms

##### Endive (Escarole), Lettuce, Spinach

Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites

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Peppers. Tomatoes	Aphids, Colorado Potato Beetles, Fall Armyworms (Tomatoes), Flea Beetles, Leafhoppers, Southern Armyworms (Tomatoes), Vinegar Flies - <i>Drosophila</i> spp. (Tomatoes)
Onions (Bulb and Green)	Onion Thrips
Radishes, Turnips, Carrots, Parsnips, Potatoes	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Colorado Potato Beetles (Potatoes), Southern Armyworms (Potatoes)
Sweet Corn	Aphids, Flea Beetles, Grasshoppers, Spider Mites
Melons, Squash (Summer, Winter)	Aphids, Thrips, Spider Mites
<b>Vegetables: Preplant Soil Application</b>	
Beans, Peas (except dried varieties)	Cutworms, Mole Crickets, Wireworms (Snap Beans)
Beets, Red (Table)	Cutworms, Mole Crickets
Cabbage	Cutworms, Root Maggots, Wireworms
Carrots, Sweet Corn	Cutworms, Mole Crickets, Wireworms
Lettuce, Tomatoes	Cutworms, Wireworms
Radishes, Turnips	Cutworms
<b>Fruits &amp; Nuts</b>	
Almonds (California only)	Scale Crawlers
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
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 Leafhoppers, Leafhoppers
<b>Roses &amp; Flowers</b>	
Azaleas, Camellias, Chrysanthemums, Carnations, Gladioli, Lilac, Rhododendron, Roses	Aphids, Flea Beetles, Dipterous Leafminers, Leafhoppers, Mealybugs, Two-spotted Spider Mites, Thrips, Whiteflies and others*

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**Ornamental Trees & Shrubs**

Arborvitae.

Aphids, Mites, Scale Crawlers, Whiteflies, Tent Caterpillars and others\*

Azaleas, Birch,

Boxwood, Camellias,

Douglas Fir, Elm,

Hawthorn Holly,

Juniper, Lilac,

Locust, Maple,

Mimosa, Oak, Pine,

Ornamental Plum,

Poplar,

Rhododendron.

Spruce, Willow

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Ford's Chemical & Service, Inc.  
3741 Red Bluff Road, Suite 200  
Pasadena, TX 77503

**ford's**

6 7 13  
ACCEPTED  
with COMMENTS  
in EPA Letter Dated

# DIAZINON 25%

MAR 22 1993  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
10370-38

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

For outdoor use on  
the home lawn and  
the home garden  
only.

Spray concentrate.  
Contains diazinon  
insecticide.

Active Ingredient:  
Diazinon: O, O-Diethyl  
O-(2-isopropyl-6-  
methyl-4-pyrimidinyl)  
phosphoro-  
thioate . . . . . 25.0%

Inert  
Ingredients\*: 75.0%

Total: 100.0%

\* Contains aromatic  
petroleum distillates.

KEEP OUT OF REACH  
OF CHILDREN.

## CAUTION

See end of booklet for  
additional precautionary  
statements

EPA Reg. No. 10370-38

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

**Controls**  
Ants, Aphids  
Chinch Bugs  
Cutworms  
Fire Ants<sup>1</sup>  
Flea Beetles  
Grubs, Mites  
Sod Webworms  
...and many others

<sup>1</sup>Aids in control

## Net Contents

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### 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.

## Precautionary Statements

### Hazards to Humans and Domestic Animals

#### CAUTION

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

### Environmental Hazards

This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 27. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, where irrigation (watering) is recommended, in the direction of waterfowl, i.e., duck 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. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to wet areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

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

### Physical or Chemical Hazards

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

## Storage and Disposal

### Storage

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

### Disposal

Do not reuse empty container. Thoroughly rinse container, securely wrap it in several layers of newspaper and discard in trash. If disposal of a partially full container is necessary, make sure cap is tightly closed, securely wrap the container in several layers of newspaper and discard in trash.

**DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY**

**IMPORTANT:** Read the Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

**WARRANTY STATEMENT**

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

**DIRECTIONS FOR USE**

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

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

**General Information**

Diazinor 25% 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 diazinor insecticide which provides positive control of many "hard-to-kill" sucking and chewing insects. Works fast and applications should be repeated only as directed to maintain control. **Diazinor 25%**

**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 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 Diazinor 25% 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. = ¾ cup

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

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

**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 over-

lapping 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. Augustinegrass.

To control pests listed below, apply recommended rates.

Pests	Rate		Remarks
	D+zin	Water	
Lawn Chinch Bugs	1½ tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet down grass a few hours before applying.  In the North, if Chinch Bugs are the only problem, a lower rate of application can be used: 3 teaspoons in 3 gals. of water covers 125 sq. ft. or 4 fl. oz. in 24 gals. of water per 1,000 sq. ft.
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs)	1½ tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet down grass a few hours before applying.  For ants and digger wasps, spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk, when wasps are not active.  Billbug control: Apply when activity is first observed or when chewed or brown grass is present indicating damage from the insect.  For frit flies, mow grass and water thoroughly before treatment, but delay application until grass is dry.
Brown Dog Ticks, Chiggers, Fleas	1½ tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	<b>NOTE:</b> Do not apply this product to animals.  For brown dog ticks, spray grass and under shrubbery, particularly near house.
Hyperodes Weevil	1½ tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	Treat problem areas in mid-April and again in mid-May. Water grass thoroughly after application.
Millipedes	1½ tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet grass a few hours before applying.
Rhodesgrass Scales	1½ tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	Apply when crawlers first emerge.
White Grubs of Japanese Beetle, European Chafer, Southern Chafer	1½ tablespoons per 125 sq. ft. or 6 fl. oz. per 1,000 sq. ft.	3 gals.  24 gals.	Apply any time between late July and early October. Water grass thoroughly after application.

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### Nuisance Pests Outside the Home

Ants, Boulder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails (Collembola)	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 can hide.  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.  Do not treat animals with this product. Do not treat plants (other than tree trunks) at this nuisance pest rate.
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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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### Insect Control on Ornamental Trees, Shrubs and Flowers

Trees and Shrubs	Insects	Rate per 3 Gals. of Water	Timing/Special Directions
Arbovitae, 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, Arbovitae, 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, Lecanium, Pine Needle, Pil, San Jose, Soft)	2 table-spoons	Apply as a thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage with spray.
	Webworms (Juniper, Mimosa), Whiteflies	2 table-spoons	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 Cherries, Oak Looper, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars, Webworms (Cotoneaster, Fall)	2 table-spoons	Apply as a thorough foliar spray.

Roses and 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 table-spoons	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*
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 number of weeds around the trees are in bloom.

Crop	Pest	Rate	Timing/Special Directions
Almonds (CA only)	San Jose scale, Parlatoria scale	2 tablespoons in 3 gals. 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.

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Apricots	Aphids. Apricot Mealybugs, Mites (Brown, Two-spotted Spider), Scale Crawlers (Olive, San Jose)	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq. ft. of orchard. Do not make more than 3 applica- tions per season a minimum of 14 days apart. Do not apply within 21 days of harvest.
Cane- berries (CA, OR, WA only): Black- berries, Boysen- berries, Dew- berries, Logan- berries, Rasp- berries	Aphids, Leafhoppers, Raspberry Fruitworms, Two-spotted Spider Mites, Thrips	2 tablespoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 5 gallons per 500 sq. ft. of field. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 7 days of harvest.  This product may be used on caneberries only in CA, OR and WA. Do not use this product on caneber- ries grown in other states.
Cherries	Black Cherry Aphids, Cherry Fruitflies, Cherry Fruitworms (Maggots), Fruitree Leafrollers, Mites (Cherry Rust), Scale Crawlers (San Jose)	4 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq. ft. of orchard. Do not make more than 3 applica- tions per season a minimum of 7 days apart. Do not apply within 21 days of harvest.
Grapes	Aphids, Leafhoppers, Grape Berry Moths, Grape Leafhoppers	4 1/2 teaspoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gallons per 500 sq. ft. of vineyard. Do not make more than 5 applica- tions 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	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 applica- tions 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	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 applica- tions 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 teaspoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq. ft. of orchard. Do not make more than 3 applica- tions per season a minimum of 7 days apart. Do not apply within 21 days of harvest.
Straw- berries	Aphids, Two-spotted Spider Mites, Strawberry Leafrollers	2 tablespoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gallons per 500 sq. ft. of field. Do not make more than 3 applications per season a minimum of 7 days apart. Do not apply within 5 days of harvest.
Walnuts (CA only)	Aphids, Scale Crawlers (Walnut, Italian Pear, Frosted), Spider Mites, Twig Borers	2 tablespoons in 3 gals. 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 applica- tions 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.

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## Vegetables

For foliar or soil applications, Diazinon 25% 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 <sup>1</sup> (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
	10
Lettuce	14
Muskmelons	3
Onions (Bulb and Green), Parsnips	14
Peas <sup>1</sup>	7
Peppers	3
Potatoes (Irish)	35
Radishes, Spinach	14
Squash, Summer	7
Squash, Winter	3
Sweet Corn	7
Tomatoes	1
Turnips (Roots and Tops)	14
Watermelons	3

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

<sup>1</sup> Do not use this product on dried pea or bean varieties such as pinto beans, dried limas, split peas or dried black-eyed peas.

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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
Beans, Lima, Pole and Snap (succulent varieties only)	Aphids, Cucumber beetles, Grasshoppers, Leafhoppers, Mexican Bean Beetles, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 5 days up to 3 applications per season. Do not apply within 7 days of harvest.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms (snap beans only)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.

NOTES: (1) Do not apply this product to dried bean varieties such as pinto beans or dried limas. (2) To protect bees, do not apply bean foliage treatments if the beans or weeds in the treatment area are in bloom.

Beets, Red (Table)	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
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	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 7 days of harvest.  NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Cabbage	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 21 days of harvest.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Root Maggots	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.

Carrots	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 14 days of harvest.  NOTE: Resistant leaf- miners will not be con- trolled by diazinon or similar type insecti- cides.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for sur- face cutworms, 3-6 inches for subterra- nean cutworms.
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before plant- ing. Immediately work into soil 1-2 inches.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Alfalfa	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 7 days of harvest.  NOTE: Resistant leaf- miners will not be con- trolled by diazinon or similar type insecti- cides.
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	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 10 days of harvest.  NOTE: Resistant leaf- miners will not be con- trolled by diazinon or similar type insecti- cides.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms, Dipterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 10 days of harvest.  NOTE: Resistant leaf- miners will not be con- trolled by diazinon or similar type insecti- cides.
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	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 10 days of harvest.  NOTE: Resistant leaf- miners will not be con- trolled by diazinon or similar type insecti- cides.

Corn (see sweet corn)			
Cucumbers	Aphids, Thrips, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 7 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	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 14 days of harvest.  NOTE: Resistant leaf- miners will not be con- trolled by diazinon or similar type insecti- cides.
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	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 10 days of harvest.  NOTE: Resistant leaf- miners will not be con- trolled by diazinon or similar type insecti- cides.
Lettuce	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 14 days of harvest.  NOTE: Resistant leaf- miners will not be con- trolled by diazinon or similar type insecti- cides.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for sur- face cutworms, 3-6 inches for subterra- nean cutworms.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Melons (Cantaloupes, Casabas, Crenshaw, Honeydews, Musk- melons, Persians, and Hybrids of these) and Water- melons	Aphids, Thrips, Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 3 days of harvest.

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Onions (Bulb and Green)	Onion Thrips	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 14 days of harvest.
Farsnips	Aphids. Flea Beetles. Leafhoppers. Dipterous Leafminers. Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat applications every 7 days up to 5 applications per season. Do not apply within 14 days of harvest.  NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Peas (succulent only)	Aphids. Cucumber Beetles. Grasshoppers. Leafhoppers. Mexican Bean Beetles. Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 5 days up to 3 applications per season. Allow at least 7 days between the last application and harvest.
	Curworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
	NOTES: (1) Do not apply this product to dried pea varieties such as split peas or dried black-eyed peas. (2) To protect bees, do not apply foliage treatments if peas or weeds in the treatment area are in bloom.		
Peppers	Aphids. Colorado Potato Beetles. Flea Beetles. Leafhoppers	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 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	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. Imported Cabbageworms. Dipterous Leafminers	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 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.
	Curworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
Spinach	Aphids. Flea Beetles. Leafhoppers. Dipterous Leafminers. Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 14 days of harvest.  NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Squash, Summer	Aphids. Thrips. Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 7 days of harvest.
Squash, Winter	Aphids. Thrips. Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 3 days of harvest.
Sweet Corn	Aphids, Thrips. Flea Beetles. Grasshoppers. Spider Mites	2 tablespoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Corn may be picked 7 days following last application.
	Curworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
NOTE: To protect bees, do not apply to corn foliage during the pollen shed period			

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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	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 1 day of harvest.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for sur- face cutworms, 3-6 inches for subterra- nean cutworms.
	Wireworms	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Turnips and 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	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applica- tions per season. Do not apply within 14 days of harvest.  NOTE: Resistant leaf- miners will not be con- trolled by diazinon or similar type insecti- cides.
	Cutworms (surface, subterranean)	6 tablespoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for sur- face cutworms, 3-6 inches for subterra- nean cutworms.

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