



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

310 / 171173  
18 / 8

R. E. Broyles  
Purina Mills, Inc.  
800 Chouteau Avenue  
St. Louis, MO 63164

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

OCT 23 1986

Dear Mr. Broyles:

Subject: Response to EPA's Letter Regarding  
Label Revisions/Additional Uses  
Purina Diazinon Insecticide-25E  
EPA Registration No. 602-240  
Your Letter Dated April 2, 1986

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

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) 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. The phrase "RECOMMENDED FOR AGRICULTURAL/COMMERCIAL USE" should be placed (in bold letters) in between the name of the product and the sites.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767C)

U.S. 2(4) On the top of the front panel add the statement, "This product must not be used on golf courses and sod farms."

Reason for Issue: Adding Use Directions for  
Premise Fly Spray on insert. Updating  
Precautionary Statement per EPA. For submission  
to EPA.

Date Issued: 3/26/86 (Green)

Prev. Date Issued: 11/22/85

PURINA®\*

BRAND

DIAZINON\*\*INSECTICIDE-25E

EPA Reg. No. 602-240

(3 row Checkerband®)

PROTECTS  
ROSES-FLOWERS-TREES-SHRUBS-  
LAWNS-VEGETABLES-FRUITS-NUTS-

CONTROLS

AND AS A PREMISE FLY SPRAY - RECOMMENDED FOR AGRICULTURAL/COMMERCIAL USE

ACTIVE INGREDIENT:

Diazinon [0,0-diethyl 0-(2-isopropyl-6-methyl-4-  
pyrimidinyl) phosphorothioate] . . . . . 25.0%

INERT INGREDIENTS . . . . . 75.0%  
100.0%

\*Trademark of Ralston Purina Company

\*\*Diazinon a registered trademark of CIBA-GEIGY Corporation.

KEEP OUT OF REACH OF CHILDREN  
WARNING  
SEE OTHER WARNINGS ON BACK PANEL

ACCEPTED  
WITH COMMENTS  
BY EPA Letter Docket

OCT 28 1986

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the purpose of  
registration under FIFRA, this  
product is

602-240

NET 16 FL OZ (1 PT)

G-2654



®\*

Manufactured By  
PURINA MILLS, INC.  
800 Chouteau Ave.  
St. Louis, Missouri 63164

NET 16 FL OZ  
PURINA®  
BRAND  
INSECTICIDE-25E

Back Panel

PRECAUTIONARY STATEMENTS  
HAZARD TO HUMANS & DOMESTIC ANIMALS  
WARNING

Keep out of reach of children. May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid contamination of feed and food-stuffs. Do not use on household pets or humans. Do not permit children or pets to go onto the sprayed grass until the spray has completely dried. Keep out of reach of domestic animals. DO NOT USE IN THE HOME. Do not contaminate ornamental fish ponds.

## STATEMENT OF PRACTICAL TREATMENT

If swallowed - Call a physician immediately. Gastric lavage is indicated if material was taken internally. DO NOT INDUCE vomiting unless other treatment is not 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. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled - Remove victim to fresh air. Apply respiration if indicated.

If on skin - Wash immediately with soap and water.

If in eyes - Flush eyes with plenty of water. Call a physician immediately.

Note to Physician - Solvent presents aspiration hazard. Gastric lavage is indicated if material was taken internally. If symptoms of cholinesterase inhibition are present, atropine is antidotal. 2-PAM is also antidotal and may be used in conjunction with atropine.

## ENVIRONMENTAL HAZARD

This product is toxic to fish, shrimp, crab, birds and other wildlife. Birds and other wildlife in treated areas may be killed. Do not apply directly to any body of water. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

## PHYSICAL OR CHEMICAL HAZARDS

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

STORAGE AND DISPOSAL

\* Storage: Store unused PURINA Diazinon Insecticide-25E in original container in cool, dry area out of reach of children and animals.

Pesticide Disposal: Securely wrap original container in several layers of newspaper and discard in trash.

Container Disposal: Do not reuse container. Rinse thoroughly before discard in trash.

NOTE: See Directions For Use on Insert

QUALITY CONTROLLED BY PURINA RESEARCH

EPA Est. No. 602-MO-1

8603 L

Printed in

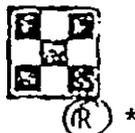
Reason For Issue: Adding Use Directions for  
Premise Fly Spray; Adding statement for  
indoor agricultural use. For submission  
to EPA.

Date Issued: 3/26/86 (Green)

Prev. Date Issued: 11/22/85

Front Copy of Insert for Pt. & Qt.

(R) \*  
PURINA  
BRAND  
DIAZINON\*INSECTICIDE-25E



EPA Reg. No. 602-240

PROTECTS  
ROSES-FLOWERS-TREES-SHRUBS-  
LAWNS-VEGETABLES-FRUITS-NUTS

CONTROLS  
NUISANCE PESTS IN OUTSIDE AREAS

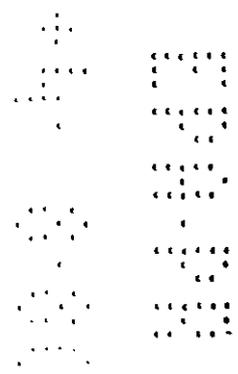
# AND AS A PREMISE FLY SPRAY - RECOMMENDED FOR AGRICULTURAL/COMMERCIAL USE

KEEP OUT OF REACH OF CHILDREN  
WARNING  
SEE LABEL FOR PRECAUTIONARY STATEMENTS

\*Trademark of Ralston Purina Company.

\*\*Diazinon a registered trademark of Ciba-Geigy Corporation

Manufactured By  
PURINA MILLS, INC.  
800 Chouteau Avenue  
St. Louis, Missouri 63164 U.S.A.



Inside Copy of InsertDirections for Mixing and Applying PURINA <sup>®</sup> DIAZINON <sup>\*\*</sup> Insecticide-25E

Mix and spray as directed in rate chart. Use a coarse drenching spray for lawns, soil and other surface applications. Use medium-fine mist sprays for trees and plants. Thorough coverage is important. Repeat application as needed or as noted in the rate chart. Flush sprayer with clean water after each use. Use contents within 6 months after opening.

Problem AreasPests - Rates and Directions

Note: Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia and orchids since injury may occur.

ROSES AND FLOWERS

Azaleas, Camellias,  
Chrysanthemums,  
Carnations, Gladioli,  
Lilacs, Roses,  
Rhododendrons

Aphids, Euonymus Scale Crawlers, Flea Beetles, Leafhoppers, Dipterous Leafminers, Mealybugs, Mites (Carnation Bud; Carnation Shoot, Cyclamen, European Red, Twospotted Spider) Thrips, Whiteflies

1 fl. oz. (2 tablespoons) per 3 gals. of water.

Apply as a thorough foliar spray. Wet the plant to the dripping point. Try to hit underside of leaves and penetrate dense foliage.

Problem Areas	Pests - Rates and Directions
<b>TREES AND SHRUBS</b> Arborvitae, Azalea, Birch, Boxwood, Camellia, Douglas Fir, Elm, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Plum, Poplar, Rhododendron, Spruce, Willow	Aphids, Bagworms, European Pine Shoot Moths, Holly Bud Moths, Dipterous Leafminers (Arborvitae, Azalea, Birch, Boxwood, Holly, Oak) Leafhoppers, Mealybugs, Mites (Clover, Cyclamen, European Red, Privet, Twospotted Spider), Obscure Root Weevils, Omnivorous Leaf-tiers, Scale Crawlers (Cottonycushion, Euonymus, Lacanium, Pine Needle, Pit Scale, San Jose, Soft), Webworms (Juniper, Mimosa*), Whiteflies.

1 fl. oz. (2 tablespoons) per 3 gals. of water.

Apply as a thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage.

\*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, Oblique-handed Leaf Rollers, Pear Slugs, Tent Caterpillars, Webworms (Cotoneaster, Fall)

3 fl. oz. in 3 gals. of water. Apply as a thorough foliar spray.

#### LAWNS

Bent, Bermuda, Bluegrass, Dichondra, Fescue, Merion, St. Augustine

#### Fire Ants

To aid in the control of fire ants in lawns and other recreational areas, apply 1 fl. oz. (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.

Ants, Armyworms, Bermudagrass Thrips, Brown Dog Ticks\*, Chiggers, Crickets, Cutworms, Earwigs, Fleas, Fruit Flies, Lawn Billbugs\*\*, Chinch Bugs\*\*\*, Lawn Moths (Sod Webworms), Leafhoppers, Mites (Bermuda, Clover), Sowbugs (Pillbugs), Springtails (Collembola)

1 fl. oz. in 3 gals. of water covers 125 sq. ft.

8 fl. oz. in 24 gals. of water covers 2,000 sq. ft.

Thoroughly wet down grass a few hours before applying.

\*Brown Dog Ticks: Do not apply to animals. In particular, spray under shrubbery and the grass next to house.

\*\*Lawn Billbugs: Water the lawn thoroughly immediately after treatment.

\*\*\*In the North, if Chinch Bugs are the only lawn insect problem, a lower rate of application can be used: 1/2 fl oz in 3 gals of water covers 125 sq. ft.

Problem Areas	Pests - Rates and Directions
	<p>Millipedes: 2 fl. oz. in 3 gals. of water covers 125 sq. ft.</p> <p>Thoroughly wet grass a few hours before applying.</p>
	<p>Rhodesgrass Scales 1 fl. oz. in 3 gals. of water covers 100 sq. ft. Apply when Scale Crawlers first emerge.</p>
	<p>Ants, Digger Wasps† 1 fl. oz. in 3 gals. of water covers 125 sq. ft. Spot spray ant hills and wasp ground nest openings. †Make the application when the wasps are not active.</p>
	<p>Billbugs††, White Grubs††† of: Japanese Beetle, European Chafer, Southern Chafer 1 fl. oz. in 3 gals. of water covers 125 sq. ft. Water grass thoroughly after application. ††Billbug control: Apply when activity is first observed or when chewed or brown grass is present, indicating damage from the insect. †††Grub control: Make application any time between late July and early October.</p>
	<p>Hyperodes Weevil (New York only) 3/4 fl. oz. in 3 gals. of water covers 125 sq. ft. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.</p>
<b>Vegetables* Foliar Application:</b>	<p>Thoroughly spray all plant parts. Generally, applications at 7 to 10-day intervals may be required. Do not feed treated vines to livestock.</p>
Beans, Peas	<p>Aphids, Cucumber Beetles, Grasshoppers, Leafhoppers, Mexican Bean Beetles, Mites 1 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.</p>
Cabbage Cauliflower, Collards, Broccoli, Kale, Radishes, Turnips	<p>Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage Worms, Dipterous Leaf Miners 1 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.</p>
Carrots, Celery, Endive, Lettuce, Parsnip, Spinach	<p>Aphids, Flea Beetles, Leafhoppers, Dipterous Leaf Miners, Mites 1 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.</p>

Problem Areas	Pests - Rates and Directions
Cantaloupes, Cucumbers, Muskmelon, Squash (summer, winter), Watermelon	Aphids, Thrips, Mites 1 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.
Peppers, Potatoes, Tomatoes	Aphids, Colorado Potato Beetles, Fall Armyworms (tomato), Flea Beetles, Leafhoppers, Southern Armyworms (potato and tomato), Vinegar Flies ( <i>Drosophila</i> spp. [tomato]) 1 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.
Onions	Onion Thrips 1 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.
Sweet Corn	Aphids, Flea Beetles, Grasshoppers, Mites 1 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.

#### Vegetables\* Preplant Soil Application:

Cabbage, Carrots, Corn, Lettuce, Peas, Pole Beans, Radishes, Red Beets, Snap Beans, Tomatoes, Turnips	Cutworms (Surface, Subterranean) 6 fl. oz. per 1,000 sq. ft. in sufficient water to achieve thorough coverage. Apply broadcast just before planting. Immediately work into soil 2-3 inches for Surface Cutworms, 3-6 inches for Subterranean Cutworms.
	Garden Symphylans (Garden Centipedes) 7½ fl. oz. per 500 sq. ft. in sufficient water to achieve thorough coverage. Apply broadcast just before planting. Immediately work into soil 4-8 inches.
	Mole Crickets: Carrots, Corn, Peas, Pole Beans, Red Beets, and Snap Beans <u>Only</u> 1½ fl.oz. per 1,000 sq. ft. in sufficient water to achieve thorough coverage. Apply broadcast just before planting. Apply 1-2 days before sowing or transplanting. Immediately work into soil 1-2 inches.
	Root Maggots: Cabbage <u>Only</u> 4½ fl.oz. per 1,000 sq. ft. in sufficient water to achieve thorough coverage. Apply broadcast just before planting. Immediately work into soil 3-4 inches before seeding, either in seed bed or in field or before transplanting.

Problem Areas	Pests - Rates and Directions
	<p>Wireworms: Cabbage, Carrots; Corn, Lettuce, Peas, Snap Beans, and Tomatoes <u>Only</u></p> <p>6 fl. oz. per 1,000 sq. ft. in sufficient water to achieve thorough coverage.</p> <p>Apply broadcast just before planting. Immediately work into soil 4-8 inches.</p>
	<p>*After spraying, do not pick vegetables within:</p> <p>1 day - Peas, Tomatoes, Sweet Corn</p> <p>3 days - Cantaloupes, Muskmelons, Winter Squash, Watermelons</p> <p>5 days - Broccoli, Cauliflower, Peppers</p> <p>7 days - Beans, Cabbage, Cucumbers, Summer Squash</p> <p>10 days - Carrots, Celery, Collards, Endive, Kale, Lettuce, Onions, Parsnips, Radishes, Spinach, Turnips</p> <p>35 days - Potatoes</p>
Fruits & Nuts	<p>Start spraying after blooming. Applications should be made according to infestation or when aphids, mites, and crawler stages of scale insects are first noted. If infestations warrant, repeat applications at 7 to 10-day intervals.</p>
Almonds, Filberts, Pecans, Walnuts	<p>Aphids, Nut Casemakers (pecans) Scale Crawlers, Spider Mites</p> <p>4 fl. oz. in 3 gals. of water. Apply as a full cover spray.</p> <p>Do not apply after husks open or split.</p>
Apples, Pears	<p>Aphids, Codling Moths, Eye-spotted Bud Moths, Fruit Tree Leaf Rollers, Leafhoppers, Tentiform Leaf Miners (pears), Maggots (apples), Mealybugs, Mites (European Red, Clover [brown], Pacific, Two-spotted Spider), Psylla (pears), Scale Crawlers (Cottony-Cushion, San Jose, Forbes, Soft)</p> <p>1 fl. oz. in 3 gals. of water. Apply as a full cover spray.</p> <p>On apples, slight russeting may occur on some varieties such as Golden Delicious.</p>
Apricots, Peaches, Nectarines	<p>Aphids, Apricot Mealybugs (apricot), Mites (clover [brown], Two-spotted Spider), Scale Crawlers (Olive, San Jose)</p> <p>1 fl. oz. in 3 gals. of water. Apply as a full cover spray.</p>
Cherries	<p>Black Cherry Aphids, Cherry Fruit Flies, Cherry Fruitworms (Maggots), Fruit Tree Leaf Rollers, Mites (Cherry Rust), Scale Crawlers (San Jose)</p> <p>1 fl. oz. in 3 gals. of water. Apply as a full cover spray.</p>

Problem Areas	Pests - Rates and Directions
Figs	Dried Fruit Beetles, Vinegar Flies ( <i>Drosophila</i> spp) 1 fl. oz. in 3 gals. of water. Apply as a full cover spray.
Plums, Prunes	Aphids (Leaf Curl, Plum, Mealy Plum, Thistle), Mites (Clover [brown], European Red) 1 fl. oz. in 3 gals. of water. Apply as a full cover spray.
Caneberries (blackberries, boysenberries, dewberries, loganberries, raspberries)	Aphids, Leafhoppers, Raspberry Sawflies, Raspberry Fruitworms, Two-spotted Mites, Thrips. 1 fl. oz. in 3 gals. of water. Apply as a full cover spray.
Blueberries	Aphids, Blueberry Maggots, Cranberry Fruitworms, Cherry Fruitworms, Two-spotted Mites, Thrips  1 fl. oz. in 3 gals. of water. Apply as a full cover spray.
Strawberries	Aphids, Two-spotted Mites. Strawberry Leaf Rollers 1 fl. oz. in 3 gals. of water. Apply as a full cover spray.
Grapes	Aphids, Grape Berry Moths, Grape Leafrollers, Leaf- hoppers, Scale Crawlers 1 fl. oz. in 3 gals. of water. Apply as a full cover spray.
Grapefruit, Lemons, Oranges	Citrus Thrips, Scale Crawlers (Citrus Snow <sup>††</sup> ), Cottony- cushion) 1 fl. oz. in 3 gals. of water. Apply as a full cover spray. <sup>††</sup> 2 fl. oz. in 3 gals. of water. Apply as a full cover spray after blooming and again in the summer. Thorough spray coverage of tree trunk, limbs and twigs is essential.
<sup>†</sup> After spraying do not pick fruit within: <ul style="list-style-type: none"> <li>5 days - Strawberries, Figs</li> <li>7 days - Blueberries, Caneberries</li> <li>10 days - Apricots, Cherries, Grapes, Nectarines, Plums, Prunes</li> <li>14 days - Apples, Pears</li> <li>21 days - Grapefruit, Lemons, Oranges, Peaches</li> </ul>	
Nuisance Pests in Outside Areas	Ants <sup>*†</sup> , Boxelder Bugs, Brown Dog Ticks <sup>*†</sup> , Chiggers <sup>†</sup> , Clover Mites <sup>*†</sup> , Cockroaches, Crickets <sup>*†</sup> , Earwigs <sup>*†</sup> , Fleas <sup>*†</sup> , Flies <sup>*†</sup> , Millipedes <sup>*†</sup> , Sowbugs (Pillbugs) <sup>*†</sup> , Spiders, Springtails ( <i>Collembola</i> ) <sup>*†</sup>

## Problem Areas

## Pests - Rates and Directions

8 fl. oz. in 3 gals. of water.

Thoroughly spray window and door screens, sills, foundations, porch and patio walls and ceilings, entranceways, walks, garbage cans, tree trunks and into cracks and other places where insects can hide.

Do not treat plants or animals.

\*Spray a 5 ft. band of soil around the house next to the foundation and spray the foundation of the house to a height of 2-3 feet. \*See lawn recommendations for other control measures for these pests.

## Recommended for Agricultural/Commercial Use

Fly control in barns and animal sleeping quarters (except dairy barns, milk rooms, and poultry houses)..

Residual Sprays: Remove animals from buildings prior to treatment and keep animals out for at least 4 hours. Apply as an overall spray to ceilings and walls of livestock sheds, calf barns, hog barns, loafing sheds, and other farm building except poultry houses, dairy barns, and milk rooms. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly. Applications should be made to point of run off. One gallon of the above spray should cover from 350-750 ft. of area, depending upon the surface treated. Repeat applications as fly populations warrent.

Dilution Directions  
For Fly Control

Amount of Purina Diazinon Insecticide-25E	Amount of Water
8 Fluid Ounces	3 gallons
16 Fluid Ounces	6 gallons
32 Fluid Ounces	12 gallons
64 Fluid Ounces	24 gallons
128 Fluid Ounces	48 gallons

Do not contaminate milk, feed, drinking water, or apply to animal or poultry. Do not use in edible product areas of food processing plants or other areas where food is commercially prepared or processed. Do not use in dwellings.

PRECAUCION

Al Usuario: Si Usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(English Translation)

CAUTION

To the User: If you cannot read English, do not use this product until the label has been fully explained to you.

Quality Controlled By Purina Research

# 8503 L

Printed in U.S.A.

