

Reg # 602-245  
PMA 15  
1/13

SEP 29 1986

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

Dear Mr. Broyles:

Subject: Amendment - Label Revisions - Change Signal Word  
from Caution to Danger  
Purina Diazinon Spray 12 1/2%  
EPA Registration No. 602-205  
Your Letter Dated September 5, 1986

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. Please add the EPA Establishment Number either preceding or following the EPA Registration Number.
2. Following the wording ". . . - Vegetables - Fruits - Nuts . . ." add the word "against" or "from" followed by "Nuisance Pests In Outside Areas."
3. We suggest that you move both "Xylene" and "Petroleum distillate" so that they become part of the "Inert Ingredients" column. Following the Inert Ingredients, on the next line, add an asterisk, followed by the wording, "Contains petroleum distillate."
4. Add the Spanish word "PELIGRO" next to the word "DANGER" on the front label.
5. Change the Spanish word "Precaucion" to "PELIGRO." In addition, the word "PRECAUCION" should immediately precede the words "AL USARIO." The wording following this subheading should be revised to read, "la etiqueta" not "le eqtiqueta," and the word "explicada" should end with an "o."

86222:Shell:LR-6:KENCO:9/30/86:10/10/86:NeeCee:lf

CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

2/13

6. Under the English translation, the word "CAUTION" should be changed to "DANGER."
7. Comments under numbers 1 and 2 also pertain to the front copy of the insert.

Submit five (5) copies of your final printed labeling before you release the product for shipment.

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)

Enclosure

Reason For Issue:  
EPA Approval: Submit 5 copies of final  
Label to EPA.

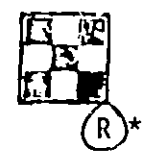
Date Issued: 9/5/86 (Yellow)

Prev. Date Issued: 2/21/86

Front Copy of Insert

EPA Reg. No. 602-245

PURINA <sup>(R)</sup> \*  
BRAND  
DIAZINON\*\*SPRAY-12-1/2%



PROTECTS  
ROSES-FLOWERS-TREES-SHRUBS-  
LAWNS-VEGETABLES-FRUITS-NUTS-  
NUISANCE PESTS IN OUTSIDE AREAS

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

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

\*Trademark of Ralston Purina Company  
\*\*Diazinon a registered trademark of Ciba-Geigy Corporation

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 29 1986

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
602-245

SEP 12 1986

Inside Copy of InsertDirections for Mixing and Applying PURINA Diazinon Spray 12-1/2%

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

2 fl. oz. (4 tablespoons) per 3 gals. of water.

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

Problem Areas	Pests - Rates and Directions
<u>TREES AND SHRUBS</u> 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 (Cottony-cushion, Euonymus, Lacanium, Pine Needle, Pit Scale, San Jose, Soft), Webworms (Juniper, Mimosa*), Whiteflies.  2 fl. oz. (4 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. <hr/> Apple-and-Thorn Skeletonizers, Hemlock Chermes, Oak Loopers, Oblique-handed Leaf Rollers, Pear Slugs, Tent Caterpillars, Webworms (Cotoneaster, Fall)  6 fl. oz. in 3 gals. of water. Apply as a thorough foliar spray.

<u>LAWNS</u> Bent, Bermuda, Bluegrass, Dichondra, Fescue, Merion, St. Augustine	<u>Fire Ants</u>  To aid in the control of fire ants in lawns and other recreational areas, apply 2 fl. oz. (4 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)  2 fl. oz. in 3 gals. of water covers 125 sq. ft.  16 fl. oz. in 24 gals. of water covers 1,000 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 fl. oz. in 3 gals. of water covers 125 sq. ft.
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Problem Areas

Pests - Rates and Directions

Millipedes: 4 fl. oz. in 3 gals. of water covers 125 sq. ft.

Thoroughly wet grass a few hours before applying.

Rhodesgrass Scales  
2 fl. oz. in 3 gals. of water covers 100 sq. ft. -  
Apply when Scale Crawlers first emerge.

Ants, Digger Wasps\*  
2 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.

Billbugs\*, White Grubs\*\* of: Japanese Beetle, European Chafer, Southern Chafer  
2 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.

Hyperodes Weevil (New York only)  
1-1/2 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.

Vegetables\* Foliar Application:

Thoroughly spray all plant parts. Generally, applications at 7 to 10-day intervals may be required. Do not feed treated vines to livestock.

Beans, Peas

Aphids, Cucumber Beetles, Grasshoppers, Leafhoppers, Mexican Bean Beetles, Mites  
2 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.

Cabbage  
Cauliflower,  
Collards,  
Broccoli,  
Kale, Radishes,  
Turnips

Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage Worms, Dipterous Leaf Miners  
2 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.

Carrots, Celery,  
Endive, Lettuce,  
Parsnip, Spinach

Aphids, Flea Beetles, Leafhoppers, Dipterous Leaf Miners, Mites  
2 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.

Problem Areas	Pests - Rates and Directions
Cantaloupes, Cucumbers, Muskmelon, Squash (summer, winter), Watermelon	Aphids, Thrips, Mites 2 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]) 2 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.
Onions	Onion Thrips 2 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.
Sweet Corn	Aphids, Flea Beetles, Grasshoppers, Mites 2 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)  
12 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)  
15 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 Only  
3 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 Only  
9 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>12 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>1/2 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>2 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>2 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>2 fl. oz. in 3 gals. of water. Apply as a full cover</p>

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Problem Areas	Pests - Rates and Directions
Figs	Dried Fruit Beetles, Vinegar Flies ( <i>Drosophila</i> spp) 2 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) 2 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. 2 fl. oz. in 3 gals. of water. Apply as a full cover spray.
Blueberries	Aphids, Blueberry Maggots, Cranberry Fruitworms, Cherry Fruitworms (Maggots), Two-spotted Mites, Thrips 2 fl. oz. in 3 gals. of water, Apply as a full cover spray.
Strawberries	Aphids, Two-spotted Mites. Strawberry Leaf Rollers 2 fl. oz. in 3 gals. of water. Apply as a full cover spray.
Grapes	Aphids, Grape Berry Moths, Grape Leafrollers, Leaf- hoppers, Scale Crawlers 2 fl. oz. in 3 gals. of water. Apply as a full cover spray.
Grapefruit, Lemons, Oranges	Citrus Thrips, Scale Crawlers (Citrus Snow**, Cottony- cushion) 2 fl. oz. in 3 gals. of water. Apply as a full cover spray.  **4 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.
<p>*After spraying do not pick fruit within;</p> <p>5 days - Strawberries, Figs</p> <p>7 days - Blueberries, Caneberries</p> <p>10 days - Apricots, Cherries, Grapes, Nectarines, Plums, Prunes</p> <p>14 days - Apples, Pears</p> <p>21 days - Grapefruit, Lemons, Oranges, Peaches</p>	
Nuisance Pests in Outside Areas	Ants*, Boxelder Bugs, Brown Dog Ticks*, Chiggers*, Clover Mites*, Cockroaches, Crickets*, Earwigs*, Fleas*, Flies*, Millipedes*, Sowbugs (Pillbugs)*, Spiders, Springtails (Collembola)*

SEP 12 1965

Problem Areas

Pests - Rates and Directions

16 fl. oz. in 3 gal's. 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 hide.

Do not treat plants or animals.

\*Spray a 5 ft. band of soil around the house near 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.

QUALITY CONTROLLED BY PURINA RESEARCH



8609 K

Printed in U.S.A.

SEP 12

11/13

Reason For Issue: Revising signal word and precautionary statements.

Date Issued: 9/5/86 (Green)

Prev. Date Issued: 2/21/86



PURINA®\*  
BRAND

DIAZINON\*\*SPRAY 12-1/2%

EPA Reg. No. 602-245

(3-Row Checkerband®\*)

PROTECTS  
ROSES-FLOWERS-TREES-SHRUBS-  
LAWNS-VEGETABLES-FRUITS-NUTS  
NUISANCE PESTS IN OUTSIDE AREAS

ACTIVE INGREDIENTS:

Diazinon [Diethyl] 0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate . . . . .	12.50%
Xylene . . . . .	40.20%
Petroleum distillate . . . . .	40.15%
INERT INGREDIENTS . . . . .	7.15%

100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

PRECAUCION

AL USUARIO: Si usted no lee ingles, no use este producto hasta que le 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.)

NET 16 FL OZ (1 PT)

G-2687

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

ACCEPTED  
with COMMENTS  
to EPA Letter Docket

NET 16 FL OZ

PURINA®\* DIAZINON\*\*  
BRAND  
SPRAY 12-1/2%

SEP 29 1986

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the purpose of registration under FIFRA . . . . .  
602-245

\* Trademark of Ralston Purina Company  
\*\*Diazinon a registered trademark of CIBA-GEIGY Corporation.

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Back Panel

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER

# Corrosive, causes eye damage. Do not get in eyes. Wear goggles or face shield when handling. Keep out of reach of children. Harmful if swallowed. May be absorbed through skin. Do not breathe spray mist. Avoid contact with skin and clothing. Wash thoroughly after handling. Avoid contamination of feed and foodstuffs. 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.

STATEMENTS 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 or convulsing 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 with plenty of water. Get medical treatment immediately.

Note to Physician - If symptoms of cholinesterase inhibition are present, atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, shrimp, crab, birds and other wildlife. Birds and other wildlife in treated areas may be killed. Keep out of any body of water. Do not apply where runoff is likely to occur. 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. Application 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 Spray 12-1/2% in original container only, 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 discarding in trash.

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Hose-End Spayer Use

This product readily dispenses in water to form a spray that can be applied with garden hose applicators (hose-end sprayers). To ensure adequate coverage, use moderate to high water pressures when applying through hose-end sprayers. Follow directions on hose-end sprayer to deliver 1 fl. oz. per gallon of Purina Diazinon Spray 12-1/2% per gallon of water.

NOTE: See Directions For Use on Insert

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EPA Est. 602-MO-1

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# 8609 M

