

PM 22 16-159

File 1899



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

FEB 10 1994

Dragon Corporation
P.O. Box 7311
Roanoke, VA 24019

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 7/29/93 in Response to PR Notice 93-7
EPA Reg. No. 16-159
Dragon ALL Purpose Fungicide

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is **accepted**. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed. The comments follow.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Gamora ink on paper that
contains at least 50% recycled fiber

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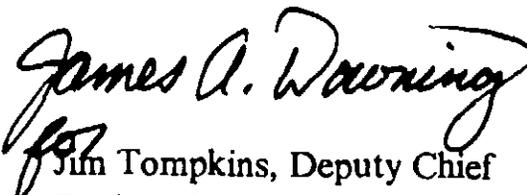
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,


for Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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[FRONT PANEL]

**DRAGON®
All-Purpose Fungicide**

CONTAINS DACTONIL 2787®

NET CONTENTS 1 QT (32 OZ)/1 PT (16 OZ)/8 OZ

For control of diseases on Lawns, Shrubs, Trees, Fruits, Vegetables, Roses and flowers.

[Note to EPA: Label front panel may feature graphics representing diseases controlled, e.g., black spot, powdery mildew, rust.]

ACTIVE INGREDIENT:	BY WT.
Chlorothalonil (tetrachloroisophthalonitrile)*	12.9%
INERT INGREDIENTS:	87.1%
TOTAL	100.0%

*Contains 1.14 lbs. Chlorothalonil per gallon.

**Keep Out of Reach of Children
CAUTION**

See back/side/other panel(s) for additional precautions.

ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB 10 1994
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
16-159

[BACK/SIDE/OTHER PANELS]

DIRECTIONS FOR USE

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

FOR HOMEOWNER USE ONLY. SHAKE WELL BEFORE USING! Read entire label and use as directed. Apply only to plants specified on this label. Do not apply to plants not listed on this label. Do not combine this product with pesticides, surfactants or fertilizers unless prior use has shown the combination physically compatible and non-injurious under conditions of use.

NOTE TO USER: Do not feed clippings to domestic animals nor allow them to feed in treated areas. This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reaction should contact a physician. Wear long-sleeve shirt, long pants and gloves when using this product.

DRAGON® All-Purpose Fungicide is highly effective in preventing a wide variety of commonly occurring diseases of flowering and foliage plants, shrubs, trees, bulbs, vegetables, lawns and ornamental turf. When disease is present **DRAGON® All-Purpose Fungicide** provides effective control when applied according to label directions.

GRASS & ORNAMENTAL LAWNS

To prevent or control the following listed diseases of grass and ornamental lawns, mix the recommended amount of **DRAGON® All-Purpose Fungicide** in one gallon of water. Apply as a thorough foliage spray to 200 sq. ft. (20'x10') of lawn area (see following chart). Make application when conditions favor disease development, such as wet or humid weather. Use the lowest application rate and longest interval for prevention or when disease conditions are light to moderate. When disease is severe, use the highest rate and shortest

interval. Do not mow or water after treatment until lawn is thoroughly dry. Do not feed clippings to domestic animals nor allow them to feed in treated areas. May cause slight burning or temporary discoloration to grass lawns if used when the temperature is above 90° F.

Disease	Spray Interval	Tbs./Gal. of Water to cover 200 sq. ft.	
		To Prevent Disease	To Control Existing Disease
Copper Spot (Ramulispora)	7-10 days	4-6 Tbs. per gal.	6-7 Tbs. per gal.
Curvularia (including blight, fading out, going out, leaf spot)	7-10 days	2-4 Tbs. per gal.	4-7 Tbs. per gal.
Dollar Spot (Sclerotinia)	7-14 days	2-4 Tbs. per gal.	4-7 Tbs. per gal.
Gray leaf spot (Piricularia)	7-10 days	2-4 Tbs. per gal.	4-7 Tbs. per gal.
Helminthosporium (including leaf spot, melting out)	7-10 days	2-4 Tbs. per gal.	4-7 Tbs. per gal.
Large Brown Patch (Rhizoctonia)	7-10 days	2-4 Tbs. per gal.	4-7 Tbs. per gal.
Red Thread (Corticium)	7-10 days	2-6 Tbs. per gal.	6-7 Tbs. per gal.
Stem Rust of Bluegrass (Puccinia)	7-14 days	4-6 Tbs. per gal.	6-7 Tbs. per gal.
DICHONDRA Alternaria Leaf Spot (California only)	7-14 days	4-6 Tbs. per gal.	6-7 Tbs. per gal.
Anthracnose	7-14 days	4-6 Tbs. per gal.	6-7 Tbs. per gal.

To control Gray Snow Mold (Typhula) in ornamental lawns: Mix 5-10 fl. oz. in 1 gallon of water, to cover 200 sq. ft. Apply as a thorough foliage spray in autumn before winter snows. In areas of little snow cover, repeat at monthly intervals as needed for control.

ROSES, FLOWERS, BULBS ORNAMENTAL PLANTS, WOODY SHRUBS, TREES & VINES

To prevent or control the specified diseases of plants listed below: Mix 4 Tbs. in 1 gallon of water (for Roses use 3 Tbs. in 1 gallon of water). Apply as a thorough foliage spray, taking care to completely wet upper and lower leaf surfaces. Coverage may vary depending on amount of foliage sprayed. Make first application as recommended for each plant and disease. Repeat at 7-14 day intervals as needed to maintain control. Use the longest interval for prevention or when disease conditions are light to moderate. When disease is severe, use the highest rate. **USE PRECAUTION:** Do not apply to tender foliage during hot, sunny weather. Do not apply to wilted plants.

ASH: Leaf spot (Cercospora), Leaf spot (Cercosporidium, Cylindrosporium) — Apply at spring bud break.

AZALEA*, RHODODENDRON*: Ovulinia petal blight — Apply at early bloom. Phytophthora dieback — Apply when new leaves emerge.

BUCKEYE, HORSECHESTNUT: Anthracnose (Glomerella), Leaf blotch (Guidnardia) — Apply at spring bud break.

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CARNATION: *Alternaria* leaf spot and stem rot — Apply when transplanting cuttings. *Botrytis* blossom blight — Apply when weather is cool and moist or when transplanting cuttings.

CHERRY-LAUREL: *Cercospora* leaf spot — Apply at petal fall.

CHRYSANTHEMUM, DAISIES: Gray mold blight (*Botrytis*) — Apply before bloom. Leaf spot (*Septoria*), Ray blight (*Mycosphaerella*) — Apply when transplanting cuttings or before bloom.

DRACAENA: Leaf spot (*Fusarium*) — Apply prior to transplanting.

EUONYMUS: Anthracnose (*Colletotrichum*) — Apply at spring bud break.

FIRETHORN: Scab (*Fusicladium*) — Apply at spring bud break.

FLOWERING ALMOND, FLOWERING QUINCE, PURPLELEAF SAND CHERRY: Brown rot blossom and twig blight (*Monilinia*) — Apply at early bloom.

FLOWERING CRABAPPLE: Cedar-apple rust (*Gymnosporangium*), Leaf spot (*Sphaeropsis*), Scab (*Venturia*) — Apply at spring bud break.

FLOWERING DOGWOOD: Leaf spot (*Septoria*) — Apply at early bloom.

GERANIUM: Gray mold blight (*Botrytis*), Rust — Apply when weather is cool and moist.

GLADIOLUS: *Botrytis* leaf and flower spot, *Curvularia* leaf and flower spot — Apply when leaves first emerge.

HAWTHORN: Leaf blight (*Fabraea*), Rust (*Gymnosporangium*) — Apply before bloom.

HOLLY: *Rhizoctonia* web blight — Apply during warm, moist conditions.

HOLLYHOCK: Rust — Apply to young seedlings.

HYDRANGEA*: Leaf spot (*Cercospora*, *Septoria*), Rust (*Pucciniastrum*) — Apply to foliage only of young plants.

IRIS: *Botrytis* blossom blight, Leaf spot (*Didymellina*) — Apply during cool, moist conditions or before bloom.

LEATHERLEAF FERN: *Ascochyta* blight, Leaf spot (*Cercospora*), Leaf spot (*Cylindrocladium*), *Rhizoctonia* blight — Apply at spring bud break.

LIGUSTRUM (PRIVET): Leaf spot (*Cercospora*) — Apply during prolonged wet conditions.

LILIES: Gray mold blight (*Botrytis*) — Apply before bloom.

MOUNTAIN-LAUREL: Leaf spot (*Cercospora*) — Apply at spring bud break.

OAK (RED GROUP ONLY): *Taphrina* blister, Leaf spot (*Actinopelte*), Anthracnose — Apply at dormant budswell.

OREGON GRAPE (MAHONIA): Rust — Apply at spring bud break.

OYSTER FLANT (RHOEO) also known as MOSES-IN-THE-CRADLE: Tan leaf spot (*Curvularia*) — Apply to young plants.

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PARLOR PALM (CHAMAEDOREA): Bipolaris leaf spot (Helminthosporium) — Apply during cool, moist conditions.

PETUNIA*: Crown rot (Phytophthora), Gray mold and blight (Botrytis) — Apply before bloom.

PHILODENDRON: Leaf spot (Dactylaria), Phytophthora blight — Apply during moist conditions.

PIERIS (ANDROMEDA): Phytophthora die-back — Apply when new leaves emerge.

PHOTINIA: Fabraea (Entomosporium) leaf spot — Apply at spring bud break.

POPLAR: Marssonina leaf spot — Apply at spring bud break.

PRAYER PLANT (MARANTA): Helminthosporium leaf spot — Apply to young plants.

ROSES (Use 3 Tbs. in 1 Gal. of water): Black spot (Diplocarpon), Botrytis blossom blight, Suppression of Powdery mildew (Sphaerotheca) — Apply at spring bud break.

STATICE: Anthracnose, Leaf spots (Cercospora, Alternaria), Leaf blight (Botrytis) — Apply at spring bud break.

SYCAMORE, PLANETREE: Anthracnose — Apply at spring bud break.

SYNGONIUM: Cephalosporium leaf spot — Apply during warm, moist conditions.

VIBURNUM: Powdery mildew (Microsphaera) — Apply mid-summer.

ZINNIA: Powdery mildew (Erysiphe) — Apply at first sign of disease.

*Discoloration has been noticed on certain varieties when application is made during bloom.

ORNAMENTAL CONIFERS: To control Rhabdocline needle cast and Swiss needle cast of Douglas Fir, Sirococcus tip blight, and Scleroderris canker of Pine: Mix 3 Tbs. in 1 Gal. of water. To control Rhizosphaera needle cast of spruce and Scirrhia brown spot of Pine: Mix 6 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray in spring when new shoot growth is 1/2 to 2 inches long. Repeat at 3 to 4 week intervals until conditions no longer favor disease development (wet or humid weather).

FRUITS & VEGETABLES

To prevent or control listed diseases in the home garden, apply DRAGON® All-Purpose Fungicide when conditions favor disease development, such as wet or humid weather. Use the lowest rate and longest interval of application when disease conditions are light to moderate. For severe disease conditions, apply the highest rate at the shortest interval. Numbers in parentheses () next to each crop indicate days required between last application and harvest. Apply at the rate of one gallon mixed spray to 200 sq. ft. of garden area. USE PRECAUTION: Do not apply to any crop not listed on this label. Do not feed treated plants to domestic animals nor allow them to feed in treated areas.

APRICOT, NECTARINE, PEACH: Brown rot blossom and twig blight (Monilinia), Coryneum blight (shothole), Leaf curl—nectarine and peach—(Taphrina), Scab (Cladosporium) — Mix 1 Tbs. in 1 Gal. of water. For leaf curl, make first application in late autumn or early winter before first freeze. Where shothole occurs, apply once at petal fall or at shuck split. For brown rot blossom and twig blight, spray at popcorn stage and again at full bloom. If conditions favor disease development, make an additional application at petal fall. For scab, apply at popcorn stage, full bloom and shuck split.

BEANS, DRY (blackeye, kidney, lima, navy, pinto) (42): Anthracnose (Colletotrichum), Cercospora leaf

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spot—blackeye only, Downy mildew (*Peronospora*), and Rust (*Uromyces*) — Mix 2-3 Tbs. in 1 Gal. of water and apply as a thorough foliage spray at early bloom. Repeat at 7-10 day intervals as needed for adequate control.

BEANS, SNAP (7): Rust (*Uromyces*) — Mix 2-3 Tbs. in 1 Gal. of water. Gray mold blight (*Botrytis*) — Mix 4 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray during early bloom or when disease first threatens. Repeat at weekly intervals or as needed to maintain control.

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER (all 0): Downy mildew (*Peronospora*), Gray leaf spot (*Alternaria*), Ringspot of Brussels sprouts—California only (*Mycosphaerella*) — Apply as a thorough foliage spray after transplant or when seedlings emerge and when conditions favor disease development. Mix 2-3 Tbs. in 1 Gal. of water. Repeat at 7-10 day intervals or as needed to maintain control.

CARROTS (0): Early blight (*Cercospora*), Late blight (*Alternaria*). Mix 2-3 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray when disease threatens. Repeat at 7-10 day intervals or as needed to maintain control.

CELERY (7): Basal stalk rot (*Rhizoctonia*), Early blight (*Cercospora*), Late blight (*Septoria*), Pine rot suppression (*Sclerotinia*). Mix 3-4 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray at transplant. Repeat at 7 day intervals or as needed to maintain control.

CHERRY (Sweet and Sour): Brown rot blossom and twig blight (*Monilinia*), Cherry leaf spot (*Coccomyces*) — Mix 1 Tbs. in 1 Gal. of water. Make first application at delayed dormant - the period just before blossom buds break open - and a second at full bloom. If conditions favor disease development, make an additional application at petal fall. Do not apply after petal fall.

CORN, SWEET (14): Helminthosporium leaf blight, Rust — Mix 1½ to 3 Tbs. in 1 Gal. of water. Apply at first sign of disease. Repeat at 4-7 day intervals or as needed to maintain control.

CUCUMBER (0): Anthracnose (*Colletotrichum*), Downy mildew (*Pseudoperonospora*), Gummy stem blight (*Mycosphaerella*), Leaf blight (*Alternaria*), Powdery mildew—except Southwestern states—(*Erysiphe*), Scab (*Cladosporium*), Target leaf spot (*Corynespora*) — Mix 2½ to 4 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray when first leaves develop or when disease threatens. Repeat at 7 day intervals. Shorter intervals may be used when disease is severe.

GARLIC (7); LEAK (14); SHALLOT (14): Botrytis leaf blast, Downy mildew suppression (*peronospora*), Purple blotch (*alternaria*) — Mix 2 to 4 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray at first sign of disease or during rainy periods. Repeat at 7-10 day intervals as needed to maintain control. Do not apply more than 3 times per season.

PUMPKIN, SQUASH (Summer and Winter), WATERMELONS, MELONS (Cantaloupe, Honeydew, Muskmelon) (all 0): Anthracnose (*Colletotrichum*), *Cercospora* leaf spot, Downy mildew (*Pseudoperonospora*), Gummy stem blight (*Mycosphaerella*), Leaf blight (*Alternaria*), Powdery mildew—except Southwestern states—(*Erysiphe*), Scab (*Cladosporium*) — Mix 3 to 4 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray when conditions favor disease development, such as wet or humid weather. Repeat at 7 day intervals. Shorter intervals may be used during severe disease conditions.

ONION, DRY (7): Botrytis leaf blast, Purple blotch (*Alternaria*) — Mix 2 to 3 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray at first sign of disease or during rainy periods. Repeat at 7-10 day intervals for as long as conditions favor disease development. Use the shorter interval during persistent rainy periods.

ONION, GREEN (14): Botrytis leaf blast, Downy mildew suppression (*Peronospora*), Purple blotch (*Alternaria*) — Mix 2 to 4 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray at first sign of disease or during rainy periods. Repeat at 7-10 day intervals for as long as conditions favor disease development. Use the shorter interval during persistent rainy periods.

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PAPAYA (0): Anthracnose (*Colletotrichum*), Fruit spot (*Alternaria*), Stem-end rot (*Phytophthora*) — Mix 3 to 5 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray when conditions favor disease development, such as wet or humid weather. Repeat at 14 day intervals to maintain control.

PARSNIP (10): *Alternaria* leaf spot, Anthracnose (*Cylindrosporium*), Botrytis blight (gray mold), Bottom rot (*Rhizoctonia*), Downy mildew (*Plasmopara*) — Mix 2 to 3 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray at first sign of disease or when conditions favor disease development, such as wet or humid weather. Repeat at 7-10 day intervals. Do not apply more than 4 times per season.

PASSION FRUIT—Hawaii only (0): *Alternaria* fruit spot. Mix 3 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray when fruit spots appear (April to July). Full coverage of fruit and leaves is important to maintain control. Repeat at 14 day intervals until weather conditions no longer favor disease development.

PLUM, PRUNE: Brown rot blossom blight (*Monilinia*) — Mix 1 Tbs. in 1 Gal. of water. Make first application at delayed dormant—the period just before blossom buds break open—and a second at full bloom. If conditions favor disease development, make an additional application at petal fall. Do not apply after petal fall.

POTATO (0): Botrytis vine rot, Early blight (*Alternaria*), Late blight (*Phytophthora*) — Mix 1½ to 2 Tbs. in 1 Gal. of water. Apply when plants are 6-8 inches high or when disease threatens. Repeat at 7-10 day intervals or as needed to maintain control.

TOMATOES (0): Anthracnose (*Colletotrichum*), Black mold rot (*Alternaria*), Early blight (*Alternaria*), Fruit rot (*Rhizoctonia*), Gray leaf spot (*Stemphylium*), Gray mold blight (*Botrytis*), Late blight (*Phytophthora*), Leaf mold (*Cladosporium*), Septoria leaf spot — Mix 2-4 Tbs. in 1 Gal. of water. Apply as a thorough foliage spray when disease threatens. Repeat at 7-10 day intervals. During conditions of severe disease pressure, use the shortest interval.

STORAGE & DISPOSAL

STORAGE: Store only in original container, in a cool dry place, inaccessible to children and pets, and away from foodstuffs.

PESTICIDE DISPOSAL: Securely wrap original container in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: Do not reuse empty container. Rinse thoroughly and discard in trash.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Skin sensitizer. Harmful if absorbed through skin or inhaled. Avoid contact with eye, skin or clothing. Avoid inhaling vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with plenty of water, call physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED: Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until fluid is clear. Call a physician immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Affected persons respond to treatment with antihistamines or steroid creams and/or systemic steroids.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. Runoff from treated areas

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may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from treated areas.

NOTICE: Buyer assumes all risks of use, storage or handling of this material not in strict accordance with label directions and cautions.

Daconil 2787 is a registered trademark of ISK Biotech.

Distributed by
DRAGON CORPORATION
Roanoke, VA 24019

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