

(Revised 08/12/86)

ELANCO ID 5944

Turf Fungicide

RUBIGAN® A.S. Turf Fungicide

Net Contents One-Half Gallon

ACCEPTED

MAR 4 1987

Under the Federal Insecticide, Fungicide, and Plant Growth Regulator Act, this pesticide is accepted, for the pesticide registered under EPA Reg. No. 1471-155

RUBIGAN® A.S. is a locally systemic fungicide for the control of specified diseases on turfgrasses and for the reduction of Poa annua populations in intensively maintained stands of perennial turfgrasses.

For use on: Golf Courses, Parks, Athletic Fields, Commercial and Residential Turf Areas.

Active Ingredient:

fenarimol: α -(2-chlorophenyl)- α -(4-chlorophenyl)-5-pyrimidinemethanol.....11.6%

Inert Ingredients.....88.4%

Contains 1 pound active ingredient per gallon.

RUBIGAN® - the registered trademark for Elanco Products fenarimol.

Keep Out of Reach of Children.

CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wear impermeable gloves (i.e. butyl rubber) when loading, mixing and applying.

Statements of Practical Treatment

If swallowed: Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

If in eyes: Flush with plenty of water. Get medical attention if irritation occurs and persists.

If inhaled: If discomfort occurs, move to fresh air. Get medical attention if breathing difficulty occurs.

Environmental Hazards: This pesticide is toxic to fish. Do not apply directly to water or wetlands. Do not apply when weather conditions favor runoff or drift from the target area. Do not contaminate water by cleaning of equipment or disposal of waste.

STORAGE AND DISPOSAL

Storage: Avoid freezing. Store in original container only. In case of leak or spill use absorbant materials to contain liquids and dispose as waste.

Pesticide Disposal: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Directions for Use

See literature on containers for complete Directions for Use. Read All Directions Carefully Before Applying.

EPA Est. 37429-GA-01
EPA Reg. No. 1471-XXX
Lot () FN 7060

Elanco Products Company
A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

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DIRECTIONS FOR USE
Read All Directions Carefully Before Applying

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

RUBIGAN A.S. is a locally systemic fungicide that provides both protective and curative (eradicant) action. RUBIGAN A.S. is recommended for use as a foliar spray for the control of dollar spot, copper spot, Rhizoctonia blight, necrotic ring spot, summer patch, Fusarium blight, stripe smut, Fusarium patch, Typhula blight, Corticium red thread, take-all patch and spring dead spot. When treating golf greens, always treat aprons and approaches.

For use on: Golf Courses, Parks, Athletic Fields, Commercial and Residential Turf Areas.

Reduction of Poa annua Populations: Applications of RUBIGAN to turfgrass areas containing Poa annua (annual bluegrass) have demonstrated a growth modifying effect on this species. Under certain environmental conditions and cultural practices, RUBIGAN applications may gradually reduce Poa annua populations in treated areas. Users that intend to reduce Poa annua populations must obtain either: (1) RUBIGAN A.S. Product Information Bulletin - Poa annua Management Program for Overseeded Bermudagrass Turf (ES 7004), or (2) RUBIGAN A.S. Product Information Bulletin - Poa annua Management Program for Northern Cool Season Turf (ES 7014). Obtain the RUBIGAN A.S. Product Information Bulletins from Elanco Products Company or their RUBIGAN distributors prior to use. Do not use RUBIGAN on turfgrass areas containing Poa annua until the appropriate Product Information Bulletin is read and understood.

Precautions: Applications of RUBIGAN to turfgrass areas containing Poa annua (annual bluegrass) may result in the gradual reduction of this species from the turfgrass area. Cumulative dosages of 10 quarts of RUBIGAN A.S. per acre or 7.5 ounces per 1000 square feet are usually necessary for this response to occur. If such a reduction or loss of Poa annua is not acceptable to the user, RUBIGAN can be used at the minimum label rate (0.75 ounce A.S./1000 square feet) or in alternating application with contact type fungicides.

APPLICATION DIRECTIONS

RUBIGAN A.S. should be added to the spray tank during the last half of the filling operation. Agitate thoroughly during the filling and spraying operation to insure a uniform spray mixture. Use only a properly calibrated fungicide sprayer with nozzle screens and inline strainers no finer than 50 mesh. Calibrate spray equipment to deliver sufficient water volume for uniform coverage.

RUBIGAN A.S. RATE RECOMMENDATIONS				
Disease Organism	Recommended Rates (Oz.-RUBIGAN A.S.) per 1000 sq. ft.	Spray Interval (Days)	Disease Pressure	Comments (See below)
Dollar spot (<i>Lanzia</i> spp. and <i>Moellerodiscus</i> spp.)	0.75	10 - 21	Low to Moderate	
	1.5	14 - 28	Moderate to Heavy	
Copper Spot (<i>Gloeocercospora</i> <i>sorghii</i>)	0.75	10 - 21	Low to Moderate	
	1.5	14 - 28	Moderate to Heavy	
Rhizoctonia Blight/ Large Brown Patch (<i>Rhizoctonia solani</i>)	1.5	7 - 14	Low to Moderate	
	1.5	7 - 14	Moderate to Heavy	Use Tan Mixes as Discussed Below
Necrotic Ring Spot (<i>Leptosphaeria korrae</i>)	7.5	30	All	
Summer Patch (<i>Phialophora</i> <i>graminicola</i>)	7.5	30	All	

(Continued)

RUBIGAN A.S. RATE RECOMMENDATIONS				
Disease Organism	Recommended Rates (Oz.-RUBIGAN A.S.) per 1000 sq. ft.	Spray Interval (Days)	Disease Pressure	Comments (See below)
Fusarium Blight (<i>Fusarium</i> spp.)	7.5	30	All	1.
Stripe Smut (<i>Ustilago striiformis</i>)	15	Single Application	All	1.
Fusarium Patch/ Pink Snow Mold (<i>Microdochium nivale</i>)	7.5 - 15	30	All	1. & 2.
Typhula Blight/ Gray Snow Mold (<i>Typhula</i> spp.)	7.5 - 15	1 or 2 Applications	All	1.
Corticium Red Thread (<i>Laetisaria fuciformis</i>)	7.5	30	All	1.
Take-All Patch (<i>Gaeumannomyces graminis</i>)	7.5	1 or 2 Applications	All	1.
Spring Dead Spot (<i>Leptosphaeria korrae</i>)	3.75 - 7.5	Single Application	All	1. & 3.

1. Single high rate applications such as required to control these diseases may result in the rapid elimination of *Poa annua* when applied to putting greens or other close cut turfgrass areas during periods of environmental stress. Subsequent reseeding with creeping bentgrass may be inhibited for up to 30 days following such applications.

- 2. This recommendation does not apply to the control of Fusarium patch (pink patch) as it occurs under conditions of cool wet weather in the Western United States (CA, OR, and WA). Under these conditions, RUBIGAN A.S. should be applied at 2 oz./1000 square feet every 3 to 4 weeks during periods of favorable disease conditions.
- 3. Make single application at 3.75 ounces per 1000 square feet in September or 5.5 ounces per 1000 square feet in October or 7.5 ounces per 1000 square feet in November.

All applications for dollar spot, copper spot and Rhizoctonia blight should be made as standard foliar applications. Applications made prior to the appearance of visible disease symptoms (preventive applications) should be made at the lowest rate and longest interval listed above.

Applications to areas with visible symptoms of dollar spot and copper spot should be made at the highest rate listed for that disease and continued at the shortest spray interval for that rate until the disease is brought under control. At this time, the lower rate, longer spray interval recommendations can begin.

Applications for necrotic ring spot, summer patch, Fusarium patch and Corticium red thread should begin one to two weeks prior to the anticipated appearance of disease symptoms and continued at 30-day intervals for as long as conditions for disease continue.

Applications for necrotic ring spot, summer patch, Fusarium blight and stripe smut should be applied to the turfgrass and thoroughly irrigated to a minimum soil depth of 1 inch. Applications for Fusarium patch and Typhula blight should be made as standard foliar applications prior to permanent snow cover or frozen soil. A second application may be necessary in late winter or early spring if conditions are favorable for renewed disease development.

Application for stripe smut can be made as a single application in October or in early spring prior to turfgrass greening.

TANK MIXTURES

When disease pressure from Rhizoctonia blight increases to moderate, control will be enhanced by tank-mixing RUBIGAN with a contact fungicide such as Daconil® 2787 or Acti-dione® thiram. If a tank-mixture is used, apply the minimum label rate recommended for the control of Rhizoctonia blight. Under conditions of heavy Rhizoctonia blight pressure, additional sequential applications of a contact fungicide may be necessary to keep the disease adequately controlled.

Additional Disease Control: If turf is threatened by additional diseases, RUBIGAN A.S. is compatible with most commonly used turf fungicides. Leaf spotting organisms such as Drechslera and Curvularia will require the use of a fungicide such as Daconil 2787 or Tersan® LSR for control. If a tank mixture is used, follow label directions for the use of that product and apply at the minimum rate recommended for control of the target disease organism

RATE CONVERSION CHART
RUBIGAN A.S. FOR TURF

Label Rates A.S./1000 sq. ft.	Quantity A.S. Per Acre
0.75 oz. (3/4)	1 Quart
1.50 oz. (1-1/2)	2 Quarts
3.75 oz. (3-3/4)	5 Quarts
5.5 oz. (5-1/2)	7-1/3 Quarts
7.50 oz. (7-1/2)	10 Quarts
15.00 oz.	20 Quarts

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RUBIGAN® (fenarimol, Elanco Products Company)
Acti-dione® Thiram (cycloheximide/thiram, NOR-AM Chemical Company)
Daconil® 2787 (chlorothalonil, Fermenta Plant Protection)
Tersan® LSK (maneb, E. I. DuPont de Nemours and Company)

DISCLAIMER OF WARRANTIES

The manufacturer makes no warranties concerning this product or its use, which extend beyond the description on the label. All other warranties, express or implied, including but not limited to, any implied warranties of merchantability and fitness for a particular purpose, are disclaimed. All statements concerning this product apply only when used as directed.

LIMITATION OF DAMAGES

Elanco's liability, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the return of the amount of the purchase price of the RUBIGAN and under no circumstances shall Elanco be liable for special, indirect or consequential damages.

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Elanco Products Company
A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

RUBIGAN A.S. Turf Fung. Label
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