

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	1984
	NAME OF PESTICIDE PRODUCT	

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
 (Under the Federal Insecticide, Fungicide,
 and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

111 126963
 17 1
 Elanco Products Company
 A Division of Lilly
 2400 Eastman Street
 Greenfield, IN 46030

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
---------------------------------	------

20610

6. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

Sincerely,

Henry M. Jacoby
Product Manager 21
Fungicide-Herbicide Branch
Registration Division (TS-767C)

HMJ:hmj:FHB:RD:CM#2:Rm227:557-1900:11/13/84

ACCEPTED
with COMMENTS
in EPA Letter Dated

ELANCO ID 5958

NOV 13 1984

Turf Fungicide

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

RUBIGAN® 50W

1471-134

Net Weight 1 Pound

RUBIGAN® 50W is a locally systemic fungicide for the control of dollar spot, large brown patch, Fusarium blight, stripe smut, and pink or gray snow mold in turfgrasses.

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

Active Ingredient:

fenarimol: α -(2-chlorophenyl)- α -(4-chlorophenyl)-5-
pyrimidinemethanol 50%
Inert Ingredients: 50%

Contains 1/2 pound active ingredient.

RUBIGAN® the trademark for Elanco Products Company fenarimol.

Keep Out of Reach of Children.

CAUTION:

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful if swallowed or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Protective clothing, including a dust mask, should be worn when mixing. Impermeable gloves (i.e. butyl rubber) should be worn when mixing and applying.

First Aid: In case of contact, flush with water. Get medical attention if irritation develops.

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:

See storage and disposal statements under Directions for Use.

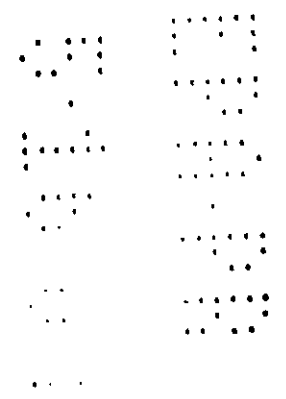
1st 10

Directions for Use

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

**EPA Est. 1471-
EPA Reg. No. 1471-
Lot (_____) FN 0742**

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

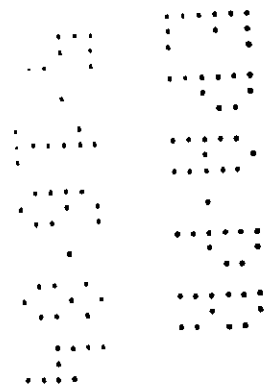


RUBIGAN^e 50W ID 5958

A locally systemic fungicide for the control of dollar spot, large brown patch, Fusarium blight, stripe smut, and pink or gray snow mold in turfgrasses.

TABLE OF CONTENTS

- Directions for Use
- Application Directions
- Usage Rates and Intervals
- Tank Mixtures
- Rate Conversion
- Precautionary Statements
- Storage and Disposal



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.

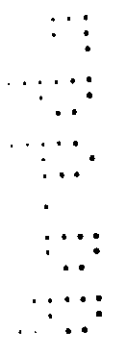
RUBIGAN 50W is a locally systemic fungicide that provides both protective and curative (eradicator) action. RUBIGAN 50W is recommended for use as a foliar spray for the control of dollar spot, large brown patch, Fusarium blight, stripe smut, and pink and gray snow mold. When treating golf greens, always treat aprons and approaches.

Poa annua Growth Regulating Effect: Applications of RUBIGAN to turfgrass areas containing Poa annua (annual bluegrass) have demonstrated a growth regulating effect on this species. Under certain environmental conditions and cultural practices, RUBIGAN applications may gradually reduce Poa annua populations in treated areas. Users desiring more information regarding this aspect of activity from RUBIGAN must obtain the RUBIGAN Product Information Bulletin on Poa annua from Elanco Products Company or their RUBIGAN distributors prior to use. Do not use RUBIGAN on turfgrass areas containing Poa annua until this 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 5 pounds of RUBIGAN 50W per acre or 2 ounces per 1000 sq. ft. 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 (0.2 oz. 50W/1000 sq. ft.) or in alternating application with contact type fungicides.

APPLICATION DIRECTIONS

RUBIGAN 50W 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 2 to 5 gallons per 1000 sq. ft.



RUBIGAN 50W RATE RECOMMENDATIONS

<u>Disease Organism</u>	<u>Recommended Rates (Oz.-RUBIGAN 50W) per 1000 ft²</u>	<u>Spray Interval (Days)</u>	<u>Disease Pressure</u>	<u>Comments (See below)</u>
Dollar spot (<u>Sclerotinia homoeocarpa</u>)	0.2 (2/10)	10-21	Low to Moderate	
	0.4 (4/10)	14-28	Moderate to Heavy	
Large brown patch (<u>Rhizoctonia solani</u>)	0.4 (4/10)	7-14	Low to Moderate	
	0.4 (4/10)	7-14	Moderate to Heavy	Use tank mixes as discussed below.
Fusarium blight (<u>Fusarium roseum</u>)	2	30	All	1.
Stripe smut (<u>Ustilago striiformis</u>)	4	Single Appli.	All	1.
Pink snow mold (<u>Fusarium nivale</u>)	2-4	1 or 2 Appli.	All	1. & 2.
Gray snow mold (<u>Typhula itoana</u>)	2-4	1 or 2 Appli.	All	1.

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 nivale, pink patch as it occurs under conditions of cool wet weather in the Western United States (CA, OR, and WA).

All applications for dollar spot and large brown patch 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 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.

TANK MIXTURES

When disease pressure from large brown patch increases to moderate, control will be enhanced by tank-mixing RUBIGAN with a contact fungicide such as Daconil 2787, Tersan 75, or Acti-dione thiram. If a tank-mixture is used, apply the minimum label rate recommended for the control of large brown patch. Under conditions of heavy large brown patch pressure, additional sequential applications of a contact fungicide may be necessary to keep the disease adequately controlled.

Applications for Fusarium blight should begin 1 to 2 weeks prior to the anticipated appearance of disease symptoms and continued at 30-day intervals for as long as conditions for disease continue.

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

Applications for both Fusarium blight and stripe smut should be applied to the turfgrass and thoroughly irrigated to a minimum soil depth of 1 inch.

Applications for pink and gray snow mold 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.

Additional Disease Control: If turf is threatened by additional diseases, RUBIGAN 50W is compatible with most commonly used turf fungicides. Leaf spotting organisms such as Helminthosporium 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 50W FOR TURF**

<u>Label Rates</u> <u>50W/1000 sq. ft.</u>	<u>Rate</u> <u>lbs. a.i./A</u>	<u>Quantity 50W</u> <u>Per Acre</u>
0.2 oz. (2/10)	0.25	0.5 lb. or 8 oz.
0.4 oz. (4/10)	0.5	1.0 lb. or 16 oz.
1.0 oz.	1.25	2.5 lb. or 40 oz.
2.0 oz.	2.5	5.0 lb. or 80 oz.
4.0 oz.	5.0	10.0 lb. or 160 oz.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or spray mist. Protective clothing, including a dust mask, should be worn when mixing. Impermeable gloves (i.e. butyl rubber) should be worn when mixing and applying.

First Aid: In case of contact, flush with water. Get medical attention if irritation develops.

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

Do not contaminate water, food, or feed by storage or disposal.

Pesticide 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.

- Acti-dione thiram (thiram, Toco, Division of Upjohn Company)
- Daconil 2787 (chlorothalonil, Diamond Shamrock Corporation)
- Tersan LSR (maneb, E. I. DuPont de Nemours and Company)
- Tersan 75 (thiram, E. I. DuPont de Nemours and Company)

The manufacturer makes no warranties, express or implied, concerning this product or its use, which extend beyond the description. All statements made concerning this product apply only when used as directed.

Copyright (c) - Elanco Products Company - 1983
Elanco Products Company
A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

SDC:dm
05/15/84

