



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (E7500C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number
62719-249

Date of Issuance
JUL 13 1994

Term of Issuance: Conditional

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Name of Pesticide Product:
Rubigan 50W Turf and
Ornamental Fungicide
in Water Soluble
Packets

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

DowElanco
Quad IV Building
9002 Purdue Road
Indianapolis, IN 46268-1189

Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his notice, 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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) 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; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Fulfill the data requirements for Series 61-2 - Description of the Beginning Material and Manufacturing Process. The data are not acceptable for this series and must be upgraded. You are required to provide more details of the manufacturing process which should include additional information on items, such as blending time, particle size, the size of the package, etc.
3. Submit five copies of the final printed label for the record.

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

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

Signature of Approving Official

Date

JUL 13 1994

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(Container Label)

(logo) DowElanco

Rubigan* 50W

Turf and Ornamental Fungicide in Water Soluble Packets

A locally systemic fungicide for the control of specified diseases on turfgrasses and ornamentals

Active Ingredient:

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION

Harmful If Swallowed, Inhaled, Or Absorbed Through The Skin

Avoid breathing spray mist and contact with skin, eyes, or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

First Aid

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: Immediately wash with plenty of soap and water. Get medical attention if irritation develops.

If in eyes: Flush with plenty of water. Get medical attention if irritation develops.

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

ACCEPTED
with COMMENTS
In EPA Letter Dated

JUL 13 1994

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

62719-249

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Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal area below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply when weather conditions favor runoff or drift from the target area. Do not contaminate water when disposing of equipment washwaters or rinsate.

Refer to label booklet for precautionary information and Directions for Use including STORAGE AND DISPOSAL and Agricultural Use Requirements.

Notice: Read the entire label before using. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400

Agricultural Chemical: Keep away from food, feedstuffs and water supplies. Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-XXX

EPA Est. _____

*Trademark of DowElanco

DowElanco • Indianapolis, IN 46268, U.S.A.

Specialty Fungicide

Net Contents - 2.72 pounds (4 X 0.68 lb)

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(Label Booklet)

(logo) DowElanco

Rubigan* 50W

Turf and Ornamental Fungicide In Water Soluble Packets

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Active Ingredient:

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

Inert Ingredients 50%

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Refer to Inside of label booklet for precautionary information and Directions for Use including STORAGE AND DISPOSAL and Agricultural Use Requirements.

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Specialty Fungicide

Net Contents - 2.72 pounds (4 X 0.68 lb)

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Precautionary Statements

Hazards to Humans and Domestic Animals**Keep Out of Reach of Children****CAUTION****Harmful If Swallowed, Inhaled, Or Absorbed Through The Skin****Avoid breathing spray mist and contact with skin, eyes, or clothing.****Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

First Aid**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:** Immediately wash with plenty of soap and water. Get medical attention if irritation develops.**If in eyes:** Flush with plenty of water. Get medical attention if irritation develops.**If inhaled:** If discomfort occurs, move individual to fresh air. Get medical attention if breathing difficulty occurs.**Environmental Hazards**

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal area below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply when weather conditions favor runoff or drift from the target area. Do not contaminate water when disposing of equipment washwaters or rinsate.

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Directions for use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exemptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Reentry: Keep unprotected persons out of treated areas until sprays have dried.

STORAGE AND DISPOSAL

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

Storage: Do not store near heat or open flame. Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose of as waste.

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: Dispose of overpack in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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General Information

Rubigan 50W fungicide 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 selected turf and ornamental diseases.

Chemigation: Do not apply Rubigan 50W through any type of irrigation system.

This package contains pre-measured 0.68-lb water soluble polyvinyl alcohol (PVA) packets of Rubigan 50W fungicide. These pre-measured packages are designed for use in power spray equipment. Do not allow the inner water soluble packets to become wet before adding to the spray tank. Do not handle the inner water soluble packets of Rubigan 50W fungicide with wet hands or gloves. Rough handling may cause breakage. Do not store at temperatures below 32°F. Allow packages to warm above 50°F before use. Cooler water temperatures increase the time needed for the water soluble packet to dissolve completely. Reseal outer package to protect remaining water soluble packets.

Mixing Instructions:

For paddle, sparger and bypass agitation systems

Note: For paddle agitation systems, paddles should be covered with water.

1. Fill the spray tank 1/3 full of water.
2. Activate agitation system.
3. Add required number of water soluble packets to obtain desired dilution.
4. Complete tank filling while the water soluble packet dissolves and Rubigan 50W disperses.
5. Before beginning to spray, make sure Rubigan 50W has dispersed and water soluble packets have dissolved.

Approved Uses

TURF

For use on: golf courses, parks, athletic fields, commercial and residential areas.

Note: When used on sod farms or turf grown for seed, follow instructions in the "Agricultural Use Requirements" section of this label. For other approved uses follow instructions in the "Non-agricultural Use Requirements" section".

Application Directions

Agitate thoroughly during the filling and spraying operation to ensure a uniform spray mixture. Apply using a properly calibrated fungicide sprayer with nozzle screens and in-line strainers no finer than 50 mesh. Calibrate spray equipment to deliver sufficient water volume for uniform coverage.

Tank Mixtures

When disease pressure from Rhizoctonia blight increases to moderate levels, control will be enhanced by tank mixing Rubigan 50W with a contact fungicide such as Daconil 2787. 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 treated for additional diseases, Rubigan 50W 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 1991 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.

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Rubigan 50W Fungicide Rate Recommendations - Greens And Tees

Disease Organism	Recommended Rates of Rubigan 50W (lb/acre)	Spray Interval (Days)	Disease Pressure	Comments (See Below)
Dollar Spot (<i>Sclerotinia homoeocarpa</i>) (<i>Moellerodiscus spp.</i>)	0.68 pounds (1 packet)	10-21	Low to Moderate	12
	1.36 pounds (2 packets)	14-28	Moderate to Heavy	13
Copper Spot (<i>Gloeocercospora sorghi</i>)	0.68 pounds (1 packet)	10-21	Low to Moderate	12
	1.36 pounds (2 packets)	14-28	Moderate to Heavy	13
Rhizoctonia Blight/ Large Brown Patch (<i>Rhizoctonia solani</i>)	0.68 pounds (1 packet)	7-14	Low to Moderate	12
	1.36 pounds (2 packets)	7-14	Moderate to Heavy	(Use tank mixes as discussed above)
Necrotic Ring Spot (<i>Leptosphaeria korrae</i>)	1.36 pounds (2 packets)	30	All	9, 11
Summer Patch (<i>Magnaporthe poae</i>)	1.36 pounds (2 packets)	30	All	9, 11
Fusarium Blight (<i>Fusarium culmorum</i>) (<i>Fusarium poae</i>)	1.36 pounds (2 packets)	30	All	9, 11
Take-All-Patch (<i>Gaeumannomyces graminis var. avenae</i>)	2.72 pounds (4 packets)	30	All	9, 14
Spring Dead Spot (<i>Leptosphaeria korrae</i>) (<i>Ophiosphaerella herpotricha</i>) (<i>Gaeumannomyces graminis var. graminis</i>)	2.72 - 4.08 pounds (4 - 6 packets)	single application	All	4, 9
Fusarium Patch/Pink Snow Mold (<i>Microdochium nivale</i>)	5.44 pounds (8 packets)	1 or 2 applications	All	2, 3, 8
Typhula Blight/Gray Snow Mold (<i>Typhula incarnata</i>) (<i>Typhula ishikariensis</i>)	5.44 pounds (8 packets)	1 or 2 applications	All	2, 8

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Rubigan 50W Fungicide Rate Recommendations - Other Turf Areas

Disease Organism	Recommended Rates of Rubigan 50W (lb/acre)	Spray Interval (Days)	Disease Pressure	Comments (See Below)
Dollar Spot (<i>Sclerotinia homoeocarpa</i>) (<i>Moellerodiscus spp.</i>)	0.68 pounds (1 packet)	30	All	12
Anthrachnose (<i>Colletotrichum graminicola</i>)	1.36 - 2.72 pounds (2 - 4 packets)	30	All	1
Copper Spot (<i>Gloeocercospora sorghi</i>)	0.68 pounds (1 packet) 1.36 pounds (2 packets)	10-21 14-28	Low to Moderate Moderate to Heavy	12 13
Rhizoctonia Blight/ Large Brown Patch (<i>Rhizoctonia solani</i>)	1.36 pounds (2 packets) 1.36 pounds (2 packets)	7-14 7-14	Low to Moderate Moderate to Heavy	12 (Use tank mixes as discussed above)
Powdery Mildew (<i>Erysiphe graminis</i>)	1.36 - 2.72 pounds (2 - 4 packets)	Single application	All	4, 9
Spring Dead Spot (<i>Leptosphaena korrae</i>)	2.72 - 4.08 pounds (4 - 6 packets)	single application	All	4, 9
Necrotic Ring Spot (<i>Leptosphaena korrae</i>)	2.72 - 5.44 pounds (4 - 8 packets)	1 or 2 applications	All	5, 9
Summer Patch (<i>Magnaporthe poae</i>)	2.72 - 5.44 pounds (4 - 8 packets)	1 or 2 applications	All	5, 9
Fusarium Blight (<i>Fusarium culmorum</i>) (<i>Fusarium poae</i>)	2.72 - 5.44 pounds (4 - 8 packets)	1 or 2 applications	All	5, 9
Take-All-Patch (<i>Gaeumannomyces graminis var. avenae</i>)	2.72 - 5.44 pounds (4 - 8 packets)	1 or 2 applications	All	6, 9
Fusarium Patch/Pink Snow Mold (<i>Microdochium nivale</i>)	5.44 pounds (8 packets)	1 or 2 applications	All	2, 3, 8
Typhula Blight/Gray Snow Mold (<i>Typhula incarnata</i>) (<i>Typhula ishikariensis</i>)	5.44 pounds (8 packets)	1 or 2 applications	All	2, 8
Cortisium Red Thread (<i>Laetisaria fuciformis</i>)	5.44 pounds (8 packets)	30	All	2, 7
Stripe Smut (<i>Ustilago striiformis</i>)	10.2 pounds (15 packets)	Single application	all	2, 9, 10

Comments - Turf

1. Applications for Anthracnose should be applied prior to the anticipated appearance of disease symptoms and continued at 30-day intervals for as long as conditions for disease continue.
2. Single high rate applications required to control these diseases may inhibit germination of creeping bentgrass for up to 30 days following application.
3. This recommendation does not apply to the control of Fusarium Patch (Pink Patch) as it occurs under the conditions of cool, wet weather in the western United States, (CA, OR, and WA). Under these

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- conditions, Rubigan 50W should be applied at 1.36 pounds (2 packets) per acre every 3 to 4 weeks during periods of favorable disease conditions.
4. For Spring Dead Spot, make a single application of 2.72 pounds (4 packets) per acre in September, or 4.08 pounds (12 packets) per acre in October or November.
 5. Rubigan 50W should be applied preventively in a single 2.72 - 5.44 pounds (4 -8 packets) per acre application in April or as a split application with 1.36 - 2.72 pounds (2 -4 packets) per acre applied in April and 1.36 - 2.72 pounds (2 - 4 packets) per acre applied in May. Use the higher rate listed when area to be treated has a previous history of disease infestation.
 6. For Take-All-Patch, Rubigan 50W should be applied preventively in a single 5.44 pounds (8 packets) per acre application or as a split application each at 2.72 pounds (4 packets) per acre applied at 30-day intervals. Applications should be made prior to permanent snow cover or frozen soil.
 7. Applications for Corticum Red Thread should begin 1 to 2 weeks prior to the anticipated appearance or disease symptoms. Applications should be made at 30-day intervals with a maximum of 2 applications during any one season.
 8. The initial application for Fusarium Patch and Typhula Blight should be made as a standard foliar application 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.
 9. Applications for Necrotic Ring Spot, Summer Patch, Fusarium Blight, Stripe Smut, Take-All-Patch and Spring Dead Spot should be applied to the turfgrass and thoroughly irrigated with 0.5 to 1 inch of water.
 10. Application for Stripe Smut should be made as a single application in October or in early spring prior to turfgrass greenup.
 11. For greens and tees, Rubigan 50W should be applied preventively at 1.36 pounds (2 packets) per acre beginning in April with a second application at 1.36 pounds (2 packets) in May. If conditions are favorable in the fall for disease occurrence, applications 14 days prior to the anticipated appearance of disease symptoms may be necessary.
 12. 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 (preventative applications) should be made at the lowest rate and longest interval listed above.
 13. Applications to areas with visible symptoms of Dollar Spot, Copper Spot and Powdery Mildew 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 that time, the lower rate, longer spray interval recommendations can begin.
 14. For greens and tees, Rubigan 50W should be applied preventatively in two applications of 2.72 pounds (4 packets) per acre at 30-day intervals. Applications should be made prior to permanent snow cover or frozen soil. If conditions are favorable in the fall for disease occurrence, applications 14 days prior to the anticipated appearance of disease symptoms may be necessary.

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ORNAMENTALS

For Control of Powdery Mildew of Field, Landscape or Container Grown Ornamentals

Note: When used on field or container grown plants on farms or in nurseries, follow instructions in the "Agricultural Use Requirements" section of this label. For other approved uses, follow instructions in the "Non-agricultural Use Requirements" section.

Rubigan 50W is a locally systemic fungicide for the prevention or therapeutic control of powdery mildew on field, landscape or container grown ornamentals. Once dried on the leaf surface, Rubigan 50W is absorbed into the plant foliage and is not easily washed off by rain or overhead irrigation. Used as directed Rubigan 50W will not harm foliage or floral tissues.

Note to User (Phytotoxicity): Environmental factors significantly affect phytotoxicity. While Rubigan 50W has been tested on numerous ornamental plants without causing serious phytotoxicity, because of the numerous varieties grown, it is recommended that a small group of plants be treated at the recommended rate under anticipated growing conditions and observed for phytotoxic symptoms. Application of Rubigan 50W at recommended rates may cause leaf puckering and other growth effects on the foliage of rose cultivars growing under cool, foggy or overcast conditions. Plants growing under such conditions develop more slowly and are more sensitive to these growth effects. The rose cultivars Royalty and Visa have exhibited growth effects under these conditions while the same cultivars growing under sunny conditions have exhibited no such effects.

Application Directions

Rubigan 50W should be added to the spray tank during the last half of the filling operation. Continuous agitation during completion of filling and spraying will be necessary to ensure a uniform spray mixture. Apply Rubigan 50W with sufficient pressure and spray volume to ensure thorough wetting of all plant surfaces. Special care should be taken to thoroughly wet new terminal growth and plant areas already diseased. Applications of Rubigan 50W should begin at the earliest appearance of signs or symptoms of disease.

Rubigan 50W Fungicide Rate Recommendations - Field, Landscape And Container Grown Ornamentals

Species	Disease	Recommended Rates and Timing For Rubigan 50W†
Ajuga Begonia Calendula Chrysanthemum Dahlia Delphinium, Hydrangea Phlox Sweet Pea Verbena Zinnia	Powdery Mildew	0.68 lb. (1 packet) per 1000 gallons every 10 to 14 days
Crape Myrtle Euonymus Photinia Roses (field and landscape only)	Powdery Mildew	0.68 lb. (1 packet) per 500 gallons every 10 to 14 days
Crabapple Hawthorn	Scab Rust Powdery Mildew	0.68 lb (1 packet) per 350 to 500 gallons every 7 to 14 days beginning at green tip.

† Apply Rubigan 50W at the recommended low rate and maximum spray interval only when using as a preventative or when leaf infection is less than 10 percent. Use the higher concentrate dilution and shorter spray interval when greater than 10 percent leaf infection occurs and environmental conditions encourage disease spread.

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Tank Mixtures

In areas where blackspot of roses occurs, Rubigan 50W should be tank-mixed with an EPA registered, commercially available fungicide. Use the recommended label rate of the selected tank-mix product for blackspot control and the appropriate rate of Rubigan 50W from the table above.

Warranty Disclaimer

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. DOWELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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Prepared: 05/26/93

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Specialty Products Supplemental Labeling



DowElanco

Quad IV, 9002 Purdue Road

P.O. Box 681428

Indianapolis, Indiana 46286-1189 USA

Rubigan* 50W In Water Soluble Packets (EPA Reg. No. 62719-EUO)

Poa annua Management Program For Overseeded Bermudagrass

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for the fungicide, Rubigan 50W In Water Soluble Packets, before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Rubigan 50W In Water Soluble Packets according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Rubigan 50W In Water Soluble Packets.

Directions for Use

Poa annua behaves as a true winter annual weed in southern warm season turfgrass areas. As such, it reduces turf quality in overseeded bermudagrass and is a significant management problem for golf course superintendents. Rubigan 50W can be used as a tool for reducing *Poa annua* populations in overseeded bermudagrass. Methods of reducing *Poa annua* populations can be varied to fit easily into a golf course turf management program. This supplemental labeling describes various options for managing *Poa annua* populations using Rubigan 50W. The program should not be undertaken unless this bulletin is fully understood by the user. In addition, the user should read and follow all use directions, precautions and limitations on the label for Rubigan 50W.

Rubigan 50W Growth Regulating Effect

Rubigan 50W may exert a growth regulating effect in certain plants by reducing the biosynthesis of gibberellic acid. This effect is expressed as a reduction in internode elongation and suppression of overall plant growth. In the presence of sufficiently high rates of Rubigan 50W or prolonged exposure, a species sensitive to this effect may be selectively suppressed. In turf this effect allows the competitive balance to shift in favor of less sensitive cultivars. *Poa annua* has demonstrated a significantly greater sensitivity to Rubigan 50W than perennial turfgrass species and most of their cultivars. Proper use of this activity can assist the golf course superintendent in managing the *Poa annua* composition of turf areas.

Management of *Poa annua* Using Rubigan 50W

Rubigan 50W, a highly effective locally systemic fungicide, is labeled for control of a number of economically important turfgrass diseases. The *Poa annua* management program for Rubigan 50W can be timed to coincide with fall fungicide applications for control of late season diseases in bermudagrass.

For optimum control, Rubigan 50W should be applied prior to germination of *Poa annua*. Treatment alternatives include a program of either 2 or 3 applications to reach the 3.0 ounce/1000 square feet rate of Rubigan 50W.

Timing is the critical issue in achieving control of *Poa annua*. Most consistent results are achieved when Rubigan 50W is applied prior to germination of *Poa annua*. If a later overseeding date is scheduled, the three application strategy is most effective.

In EPA Letter Dated
JUL 13 1994

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

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Overseeding

Fine bladed perennial ryegrass or blends of ryegrass cultivars are recommended for overseeding. To avoid seedling stress the last application of Rubigan 50W should be made at least 2 weeks before overseeding perennial ryegrass and the seeding rate should be a minimum of 30 pounds per 1000 square feet. If either *Poa trivialis* or bentgrass is used for overseeding, follow the 3 application program. To avoid seedling stress when overseeding *Poa trivialis* or bentgrass, the final application of Rubigan 50W should be made at least 30 days before overseeding.

***Poa annua* Control Programs for Rubigan 50W**

Program	Number of Applications	Application Rate Rubigan 50W	Spray Interval	Application Timing	Expected Percent Control
A	2	1.5 oz/1000 sq ft 12 packets/acre	14 days	First application prior to <i>Poa annua</i> germination	75 to 95+
B	3	1.0 oz/1000 sq ft 8 packets/acre	14 days	First application prior to <i>Poa annua</i> germination	75 to 95+%

Note: A single application of 0.5 ounces of Rubigan 50W per 1000 square feet (4 packets/acre) in January or February following overseeding will help enhance the suppression of *Poa annua* and prolong this effect through the spring season.

Anticipated Results

Application of Rubigan 50W for management of *Poa annua* will coincide with the onset of winter dormancy in bermudagrass. Extended periods of low temperatures and heavy rainfall after an application of Rubigan 50W may result in yellowing of bermudagrass. This effect is attributable to developing dormancy of bermudagrass, not to Rubigan 50W application. Normal germination and growth of the overseeded grasses can be expected.

Applications of Rubigan 50W in the programs recommended in this label are expected to result in *Poa annua* control in the range of 75 to 95 percent. Results are most apparent during the following spring season when *Poa annua* seedheads are visible and plant populations can be measured. Concurrent control of turf diseases susceptible to Rubigan 50W at the rates applied can be expected as a part of the *Poa annua* control program.

Precaution

- A single application of Rubigan 50W in excess of 0.125 ounces per 1000 square feet may inhibit the germination of creeping bentgrass for up to 30 days after application. Do not apply this treatment where creeping bentgrass is to be seeded within 30 days after application.
- During periods of environmental stress, a single high rate application of Rubigan 50W may rapidly eliminate *Poa annua* from greens, tees or other close cut turf areas. Do not apply this treatment if rapid elimination of *Poa annua* is a potential problem.

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