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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Julie Butcher Senior Registration Specialist Gowan Company P.O. Box 5569 Yuma, AZ 85366

APR 1 9 2010

Subject: Rubigan A.S. Turf and Ornamental EPA Reg. No. 10163-274 Your amendment dated January 25, 2010 Decision Number 408452

Dear Ms. Butcher:

The label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. One copy of the label stamped "Accepted" is enclosed for your records. Please submit one copy of the final printed label before the product is released for shipment. If you have any further questions, please contact Tracy Keigwin of my team at (703) 305-6605, or via e-mail at keigwin.tracy@epa.gov.

Sincerely,

Mary L. Weller

Mary L. Waller Product Manager (21) Fungicide Branch Registration Division (7505P)

Enclosure: "Accepted" label

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Rubigan® A.S.

# **Turf and Ornamental**

A locally systemic fungicide for the control of specified disease on turf grasses and ornamentals. For use only on tees, greens, and fairways of golf courses, and turf in professional athletic stadia. To be applied only by or under the supervision of commercial applicators responsible for disease and weed control programs.

ACTIVE INGREDIENT	% By Wt.
Fenarimol: a-(2-chlorophenyl)-a-(4-chlorophenyl)-5-pyrimidinemethanol	
OTHER INGREDIENTS	
	<b>TOTAL</b> 100.0%

Contains 1 pound active ingredient per gallon

# KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

	FIRST AID
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes.
	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	Call poison control center or doctor immediately for treatment advice.
	Have person sip a glass of water if able to swallow.
	Do not induce vomiting unless told to do so by the poison control center or doctor.
	Do not give anything by mouth to an unconscious or convulsing person.
If inhaled	Move person to fresh air.
	• If person is not breathing, call 911 or an ambulance, then give artificial respiration,
	preferably by mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice.
If on skin or clothing	Take off contaminated clothing.
	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.
· · · · · · · · · · · · · · · · · · ·	HOT LINE NUMBER
	ainer or label with you when calling a poison control center or doctor, or going for treatment. You 8-478-0798 for emergency medical treatment information.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist and contact with skin, eyes and clothing.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category *C* on an EPA chemical resistance category selections chart.

- Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or Viton
- Shoes plus socks
- Goggles or face shield





Produced For: Gowan Company P. O. Box 5569 Yuma, Arizona 85366-5569 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.

Users should:

### USER SAFETY RECOMMENDATIONS

- 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.

### **ENVIRONMENTAL HAZARDS**

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

This chemical has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

This product may contaminate surface water due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water.

The product is classified as having high potential for runoff for several months or more after application. A level, wellmaintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff of rain water. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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 exceptions 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 require for early entry to treated areas that is permitted under the Worker Protections Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate or butyl rubber
- Shoes plus socks
- Goggles or face shield

### 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 (40CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

Read all Directions for Use carefully before applying.

### **GENERAL INFORMATION**

Rubigan A.S. Turf and Ornamental fungicide is a locally systemic product that provides both protective and curative (eradicant) action. Rubigan A.S. Turf and Ornamental is recommended for use as a foliar spray for the control of selected turf and ornamental diseases. **Turf uses are limited to golf course tees, greens, fairways, and turf in professional** 

athletic stadia. When applying Rubigan to control two or more diseases, the rate, timing and interval must comply with the most restrictive of any of the diseases.

**Chemigation:** Do not apply Rubigan A.S. Turf and Ornamental through any type of irrigation system. **Aerial Applications:** Do not apply Rubigan A.S. Turf and Ornamental by aerial application.

### **Application Directions**

Add Rubigan A.S. Turf and Ornamental to the spray tank during the last half of the filling operation. Agitate thoroughly during the filling and spraying operation to ensure a uniform 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.

For use on: Turf grasses and ornamentals. Turf uses are limited to tees, greens and fairways of golf courses, and turf in professional athletic stadia.

**Maximum Application and Use Rate:** No single application to exceed 8 fl oz per 1000 sq ft. (2.7 lb a.i. per acre). For tees, greens, and turf in professional athletic stadia, do not make more than 12 applications per year or exceed the cumulative rate of 32 fl oz per 1000 sq ft per year (10.8 lb a.i. per acre per year). For golf course fairways, do not exceed the cumulative rate of 24 fl oz/1000 sq ft per year (8.1 lb a.i. per acre per year).

#### Disease Organism Rate of Sprav Disease Pressure Comments Rubigan A.S. Interval (fl oz/1000 sq ft) (days) Dollar spot 0.75 Low to Moderate Make all applications for dollar 10-21 (Sclerotinia spot as standard foliar applications. For preventative homoeocarpa) (Moellerodiscus spp.) applications, apply product prior to the appearance of visible disease symptoms at the lowest application rate and at the longest interval. 1.5 14-28 Moderate to Heavy For curative applications to areas with visible symptoms of dollar spot, apply product at the highest rate for that disease and continue at the shortest sprav interval for that rate until the disease is brought under control. At this time, the lower rate, longer spray interval recommendations can begin. Copper spot 0.75 10-21 Low to Moderate Make all applications for copper spot as standard foliar (Gloeocercospora applications. For preventative sorghi) applications, apply product prior to the appearance of visible disease symptoms at the lowest application rate and at the longest interval. 1.5 14-28 For curative applications to Moderate to Heavy areas with visible symptoms of copper spot, apply product at the highest rate for that disease and continue 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.

#### APPLICATION RATES FOR RUBIGAN A.S. TURF AND ORNAMENTAL FOR GOLF COURSE GREENS AND TEES

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Rhizoctonia blight/brown patch (Rhizoctonia solani)	1.5	7-14	Low to Moderate	Make all applications for rhizoctonia as standard foliar applications. For preventative applications, apply product prior to the appearance of visible disease symptoms at the lowest application rate and at the longest interval.
	1.5	7-14	Moderate to Heavy	Use tank mixes as discussed below.

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## APPLICATION RATES FOR RUBIGAN A.S. TURF AND ORNAMENTAL FOR GOLF COURSE GREENS AND TEES

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Disease Organism	Rate of	Spray	Disease Pressure	Comments
	Rubigan A.S. (fl oz/1000 sq ft)	Interval (days)		
Necrotic ring spot (Leptosphaeria korrae)	2.0	30	All	For control of necrotic ring spot, apply product to the turfgrass and thoroughly irrigate with 0.25 to 0.5 inch of water. For greens and tees, apply
				Rubigan A.S. Turf and Ornamental preventively at 2.0 fl oz/1000 sq ft beginning in April with a second application at 2.0 fl oz/1000 sq ft 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.
Summer patch (Magnaporthe poae)	2.0	30	All	For control of summer patch, apply product to the turfgrass and thoroughly irrigate with 0.25 to 0.5 inch of water.
				For greens and tees, apply Rubigan A.S. Turf and Ornamental preventively at 2.0 fl
:				oz/1000 sq ft beginning in April with a second application at 2.0 fl oz/1000 sq ft 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.
Take-all patch (Gaeumannomyces graminis)	4.0	30	All	For control of take-all patch, apply product to the turfgrass and thoroughly irrigate with 0.25 to 0.5 inch of water.
·				For greens and tees, apply Rubigan A.S. Turf and Ornamental preventatively in two applications of 4.0 fl oz/1000 sq ft at 30-day intervals. Make applications 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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### APPLICATION RATES FOR RUBIGAN A.S. TURF AND ORNAMENTAL FOR GOLF COURSE GREENS AND TEES

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Disease Organism	Rate of Rubigan A.S. (fl oz/1000 sq ft)	Spray Interval (days)	Disease Pressure	Comments
Spring dead spot (Ophiosphaerella korrae) (Ophiosphaerella	4.0-6.0	Single application (per season)	All	For preventative control of spring dead spot, make a single application of 4.0-6.0 fl oz/1000 sq ft in September, or as a split
narmari) (Ophiosphaerella herpotricha)	Up to 6.0	2 applications 14-30 day intervals	All	application each at up to 6.0 fl oz/1000 sq ft in early September and early October applied at 14- 30 day intervals. For optimum control, apply when soil temperatures are between 80° and 60° F at a depth of 2 inches. For optimum control of spring dead spot, utilize the 30-day spray interval between applications. For control of spring dead spot, apply product to the turfgrass and thoroughly irrigate with 0.25 to 0.5 inch of water.
Fusarium patch/ pink snow mold (Microdochium nivale)	8.0	Single application (per season)	All	Single high rate applications such as required to control these diseases may inhibit germination of creeping bentgrass for up to 30 days following application. For fusarium patch control, apply the initial treatment as a standard foliar application prior
	4.0	2 applications 30 day intervals	All	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.
	2.0	21 to 30 day intervals	Conditions of cool, wet weather in the western United States (CA, OR, WA).	

## APPLICATION RATES FOR RUBIGAN A.S. TURF AND ORNAMENTAL FOR GOLF COURSE GREENS AND TEES

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Disease Organism	Rate of Rubigan A.S. (fl oz/1000 sq ft)	Spray Interval (days)	Disease Pressure	Comments
Typhula blight/gray snow mold ( <i>Typhula incarnata</i> )	8.0	1 or 2 applications (A second application may be necessary in late winter or early spring if conditions are favorable for renewed disease development.)	All	Single high rate applications such as required to control these diseases may inhibit germination of creeping bentgrass for up to 30 days following application. For typhula blight control, apply the initial treatment 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.

When treating golf greens and tees, always treat aprons and approaches.

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### APPLICATION RATES FOR RUBIGAN A.S. TURF AND ORNAMENTAL FOR FAIRWAYS AND PROFESSIONAL ATHLETIC STADIA.

Disease Organism	Rates of Rubigan A.S. (fl oz/1000 sq ft)	Spray Interval (days)	Disease Pressure	Comments
Dollar spot (Sclerotinia homoeocarpa) (Moellerodiscus spp.)	0.75	10-21	Low to Moderate	Make all applications for dollar spot as standard foliar applications. For preventative applications, apply product prior to the appearance of visible disease symptoms at the lowest application rate and at the longest interval.
	1.5	14-28	Moderate to Heavy	For curative applications to areas with visible symptoms of dollar spot, apply product at the highest rate for that disease and continue 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.



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### APPLICATION RATES FOR RUBIGAN A.S. TURF AND ORNAMENTAL FOR FAIRWAYS AND PROFESSIONAL ATHLETIC STADIA.

PROFESSIONAL ATHLETIC STADIA.					
Disease Organism	Rates of Rubigan A.S. (fl oz/1000 sq ft)	Spray Interval (days)	Disease Pressure	Comments	
Anthracnose (Colletotrichum graminicola)	1.75 - 3.5	30	All	Make applications for anthracnose prior to the anticipated appearance of disease symptoms and continued at 30-day intervals as long as conditions for disease continue.	
Copper spot (Gloeocercospora sorghi)	0.75	10-21	Low to Moderate	Make all applications for copper spot as standard foliar applications. For preventative applications, apply product prior to the appearance of visible disease symptoms at the lowest application rate and at the longest interval.	
	1.5	14-28	Moderate to Heavy	For curative applications to areas with visible symptoms of copper spot, apply product at the highest rate for that disease and continue 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.	
Rhizoctonia blight/brown patch <i>(Rhizoctonia solani)</i>	1.5	7-14	Low to Moderate	Make all applications for rhizoctonia blight as standard foliar applications. For preventative applications, apply product prior to the appearance of visible disease symptoms at the lowest application rate and at the longest interval.	
	1.5	7-14	Moderate to Heavy	Use tank mixes as discussed below.	
Necrotic ring spot (Leptosphaeria korrae)	4.0 - 8.0	Single application (per season)	All	Apply Rubigan A.S. Turf and Ornamental preventively in a single 4.0-8.0 fl oz/1000 sq ft application in April or as a split application with 2.0-4.0 fl	
	2.0 - 4.0	2 applications (Split applications applied in April and May.)	All	oz/1000 sq ft applied in April and 2.0-4.0 fl oz/1000 sq ft applied in May. Use the higher rate listed when area to be treated has a previous history of disease infestation.	
				For control of necrotic ring spot, apply product to the turfgrass and thoroughly irrigate with 0.25 to 0.5 inch of water.	

# APPLICATION RATES FOR RUBIGAN A.S. TURF AND ORNAMENTAL FOR FAIRWAYS AND PROFESSIONAL ATHLETIC STADIA.

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Disease Organism	Rates of Rubigan A.S. (fl oz/1000 sq ft)	Spray Interval (days)	Disease Pressure	Comments
Summer patch (Magnaporthe poae)	4.0-8.0	Single application (per season)	All	Apply Rubigan A.S. Turf and Ornamental preventively in a single 4.0-8.0 fl oz/1000 sq ft application in April or as a split
	2.0-4.0	2 applications (Split applications applied in April and May)	All	application in April or as a split application with 2.0-4.0 fl oz/1000 sq ft applied in April and 2.0-4.0 fl oz/1000 sq ft applied in May. Use the higher rate listed when area to be treated has a previous history of disease infestation. For control of summer patch, apply product to the turfgrass and thoroughly irrigate with 0.25
Fusarium patch/pink snow mold (Microdochium nivale)	8.0	Single application (per season)	Ali	to 0.5 inch of water. Single high rate applications such as required to control these diseases may inhibit germination of creeping bentgrass for up to 30 days following application.
	4.0	2 applications 30 day intervals	All	For fusarium patch control, apply the initial treatment as a standard foliar application prior
	2.0	21 to 30 day intervals	Conditions of cool, wet weather in the western United States (CA, OR, WA).	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.

APPLICATION RATES FOR RUBIGAN A.S. TURF AND ORNAMENTAL FOR FAIRWAYS AND PROFESSIONAL ATHLETIC STADIA.

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PROFESSIONAL ATHLETIC STADIA.					
Disease Organism	Rates of Rubigan A.S. (fl oz/1000 sq ft)	Spray Interval (days)	Disease Pressure	Comments	
Typhula blight/gray snow mold (Typhula incarnata)	8.0	Single application (per season)	All	Single high rate applications such as required to control these diseases may inhibit germination	
	4.0	2 applications 30 day intervals	All	of creeping bentgrass for up to 30 days following application. For typhula blight control, apply the initial treatment 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.	
Red thread ( <i>Laetisaria fuciformis</i> )	8.0	30	All	Single high rate applications such as required to control these diseases may inhibit germination of creeping bentgrass for up to 30 days following application. Begin applications for red threac 1 to 2 weeks prior to the anticipated appearance of disease symptoms. Make applications at 30-day intervals with a maximum of 2 applications during any one season.	
Take-all patch (Gaeumannomyces graminis)	4.0 - 8.0	1 or 2 applications 30 days for split applications.	All	For take-all patch, apply Rubigan A.S. Turf and Ornamental preventively in a single 8.0 fl oz/1000 sq ft application or as a split application each at 4.0 fl oz/1000 sq ft applied at 30-day intervals. Make applications prior to permanent snow cover or frozen soil. For control of take-all patch, apply product to the turfgrass and thoroughly irrigate with 0.25 to 0.5 inch of water.	



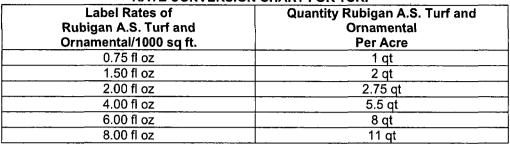
Disease Organism	Rates of Rubigan A.S. (fl oz/1000 sq ft)	Spray Interval (days)	Disease Pressure	Comments
Powdery mildew (Erysiphe graminis)	2.0 - 4.0	Single application (per season)	All	For curative applications to areas with visible symptoms of powdery mildew, apply product at the highest rate for that disease and continue 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.
Spring dead spot (Ophiosphaerella korrae) (Ophiosphaerella	4.0 - 6.0	Single application (per season)	All	For preventative control of spring dead spot, make a single application of 4.0-6.0 fl oz/1000 sq ft in September, or as a split
narmari) (Ophiosphaerella herpotricha)	Up to 6.0	2 applications 14-30 day intervals	All	application each at up to 6.0 fl oz/1000 sq ft in early September and early October applied at 14- 30 day intervals. For optimum control, apply when soil temperatures are between $80^{\circ}$ and $60^{\circ}$ F at a depth of 2 inches. For optimum control of spring dead spot, utilize the 30-day spray interval between applications.
				For control of spring dead spot, apply product to the turfgrass and thoroughly irrigate with 0.25 to 0.5 inch of water.

### **Tank Mixtures**

When disease pressure from rhizoctonia blight increases to moderate, control will be enhanced by tank mixing Rubigan A.S. Turf and Ornamental with a contact fungicide containing the active ingredient chlorothalonil. 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. This product must not be tank mixed with products containing label prohibitions against tank mixing. Do not mix products containing iron with Rubigan A.S. Turf and Ornamental. Do not exceed label dosage rates. The most restrictive label limitations and precautions must be adhered to. For disease control, do not use wetting agents or non-ionic surfactants with this product.

### **Additional Disease Control**

If turf is treated for additional diseases, Rubigan A.S. Turf and Ornamental is compatible with most commonly used turf fungicides. Leaf spotting organisms such as *Dreschslera* and Bipolaris will require the use of a fungicide containing the a.i. chlorothalonil 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 FOR TURF**

POA ANNUA MANAGEMENT PROGRAM FOR OVERSEEDED BERMUNDAGRASS GREENS AND TEES

*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 A.S. Turf and Ornamental fungicide can be used as a tool for reducing *Poa annua* in overseeded bermudagrass greens and tees. Methods of reducing *Poa annua* populations can be varied to fit easily into a golf course turf management program. The Directions for Use for the *Poa annua* Management program describes various options for managing *Poa annua* populations using Rubigan A.S. Turf and Ornamental. The program should not be undertaken unless the directions are fully understood by the user.

**Rubigan A.S. Turf and Ornamental Growth Regulating Effect: Rubigan A.S. Turf and Ornamental** 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 A.S. Turf and Ornamental** 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 A.S. Turf and Ornamental** than perennial turfgrass species and most of their cultivars. Proper use of this selectivity can assist the golf course superintendent in managing the *Poa annua* composition of greens and tees.

**Management of** *Poa annua* **Using Rubigan A.S. Turf and Ornamental:** Rubigan A.S. Turf and Ornamental, 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 A.S. Turf and Ornamental can be timed to coincide with fall fungicide applications for control of late season diseases in bermudagrass, including spring dead spot.

For optimum control, apply Rubigan A.S. Turf and Ornamental prior to germination of *Poa annua*. Treatment alternatives include a program of either 2 or 3 applications to reach the 12 fluid ounce/1000 square feet rate of Rubigan A.S. Turf and Ornamental.

Timing is the critical issue in achieving control of *Poa annua*. Apply Rubigan A.S. Turf and Ornamental prior to germination of *Poa annua*. If a later overseeding date is scheduled, the three application strategy is most effective.

**Overseeding:** Fine bladed perennial ryegrass or blends of ryegrass cultivars are recommended for overseeding. To avoid seedling stress the last application of Rubigan A.S. Turf and Ornamental must be made at least 2 weeks before overseeding perennial ryegrass and it is recommended that the medium to high seeding rate be followed. 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 A.S. Turf and Ornamental must be made at least 30 days before overseeding.

Program	Number of Applications	Application Rate Rubigan A.S. Turf and Ornamental	Spray Intervał	Application Timing
A	2	6.0 fl oz per 1000 sq ft	14 days	First application prior to <i>Poa</i> <i>annua</i> germination
В	3	4.0 fl oz per 1000 sq ft	14 days	First application prior to <i>Poa</i> <i>annua</i> germination

POA ANNUA CONTROL PROGRAMS FOR RUBIGAN A S TURE AND ORNAMENTAL

**Note:** A single application of no more than 2.0 fluid ounces of Rubigan A.S. Turf and Ornamental per 1000 square feet in late December or early January following the establishment of overseeding will help enhance the suppression of *Poa annua* and prolong this effect through the spring season.

Anticipated Results: Application of Rubigan A.S. Turf and Ornamental 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 A.S. Turf and Ornamental may result in yellowing of bermudagrass. This effect is attributable to developing dormancy of bermudagrass, not to Rubigan A.S. Turf and Ornamental application. Normal germination and growth of the overseeded grasses can be expected. Avoid the use of plant growth regulators (PGR's) within two weeks of an application of Rubigan A.S. Turf and Ornamental. For best results, water in application with at least 0.25 inches of rainfall or irrigation. For optimum results, apply Rubigan A.S. Turf and Ornamental in a minimum volume of water equivalent to 2 gallons per 1000 square feet.

Applications of Rubigan A.S. Turf and Ornamental as directed 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 A.S. Turf and Ornamental at the rates applied can be expected as a part of the *Poa annua* control program.

### Precaution:

- Do not apply a single application of Rubigan A.S. Turf and Ornamental in excess of 6.0 fluid ounces per 1000 square feet to greens and tees.
- Make each subsequent application at an angle to the previous application of Rubigan A.S. Turf and Ornamental. Avoid spray overlap.
- During periods of environmental stress, a single high rate application of Rubigan A.S. Turf and Ornamental 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.
- Do not mix products containing iron with Rubigan A.S. Turf and Ornamental.
- Refer to the label for Rubigan A.S. Turf and Ornamental for additional use directions, precautions and limitations before use.

### ORNAMENTALS

For Control of Powdery Mildew of Field, Landscape, Greenhouse, and Container Grown Ornamentals Rubigan A.S. Turf and Ornamental is a locally systemic fungicide for the prevention or therapeutic control of powdery mildew of field, greenhouse, or landscape grown roses and field, landscape, greenhouse or container grown ornamentals. Once dried on the leaf surface, Rubigan A.S. Turf and Ornamental is absorbed into the plant foliage and is not easily washed off by the rain or overhead irrigation. Used as directed Rubigan A.S. Turf and Ornamental will not harm the foliage or floral tissues.

**Note to User (Phytotoxicity):** Environmental factors significantly affect phytotoxicity. While Rubigan A.S. Turf and Ornamental 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 A.S. Turf and Ornamental 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 such on such effects.

### **Application Directions**

Add Rubigan A.S. Turf and Ornamental 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 A.S. Turf and Ornamental with sufficient pressure and spray volume to ensure thorough wetting of all plant surfaces. Special care must be taken to thoroughly wet new terminal growth and plant areas already diseased. Applications of Rubigan A.S. Turf and Ornamental must begin at the earliest appearance of signs or symptoms of disease. Do not apply Rubigan A.S. Turf and Ornamental more than once in any 60-day period, or more than 3 times per year.

Species Disease Rates and Timing for Rubigan A.S. Turf and Ornamental† Powdery Mildew 3-5 fl oz/100 gallons for Ajuga Begonia 10 to 14 days of control Calendula Chrysanthemum-Dahlia Delphinium, Hydrangea Phlox Sweet Pea Verbena Zinnia 6-10 fl oz/100 gallons for Crape Myrtle **Powdery Mildew** Euonymus 10 to 14 days of control Photinia Roses (field and landscape only) Scab 4-12 fl oz/100 gallons for Crabapple Hawthorn 10 to 14 days of control Rust Powdery Mildew beginning at green tip 8 fl oz/100 gallons for **Ornamental Dogwood Powdery Mildew** 10 to 14 days of control

### APPLICATION RATES FOR RUBIGAN A.S. TURF AND ORNAMENTAL FIELD, LANDSCAPE, GREENHOUSE, AND CONTAINER GROWN ORNAMENTALS

† Apply Rubigan A.S. Turf and Ornamental at the recommended rate only when using as a preventative or when leaf infection is less than 10 percent. Use the higher rates when greater than 10 percent leaf infection occurs and environmental conditions encourage disease spread. For continued control of listed diseases after the expected control period for the plant species listed, rotate to another fungicide with a non-sterol inhibiting mode of action. Do not apply Rubigan A.S. Turf and Ornamental more than once in any 60 day period, or more than 3 times per year.

**Tank Mixtures:** In areas where black spot occurs, Rubigan A.S. Turf and Ornamental must be tank-mixed with an EPA registered, commercially available fungicide. Use the recommended label rate of the selected tank-mix product for black spot control and the appropriate rate of Rubigan A.S. Turf and Ornamental from the table above. This product must not be tank mixed with products containing label prohibitions against tank mixing. No label dosage rates should be exceeded and the most restrictive label limitations and precautions must be adhered to.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Avoid freezing. 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 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:** Nonrefillable container. Do not reuse this container. Offer for recycling, if available. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. After cleaning, if recycling is not available, puncture and dispose of in a sanitary landfill or by incineration or if allowed by State and local authorities by burning. If burned stay out of smoke.

### FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC<sup>®</sup> (800) 424-9300. For other product information, contact GOWAN COMPANY, LLC or see Material Safety Data Sheet.

### NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILTY LIMITATIONS

<u>Important</u>: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application,

and other factors, all of which are beyond the control of Gowan Company. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label and is reasonably fit for the intended purpose referred to on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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EPA Text: Rubigan A.S. T&O (to EPA 1-25-10)