

10163-274

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

APR 24 2003

Terre R. Allen
Registration Specialist
Gowan Company LLC
P.O. Box 5569
Yuma, AZ 85366-5569

Subject: Rubigan A.S.
EPA Reg. No. 10163-274
Your Application dated March 14, 2003

Dear Ms Allen:

The Supplemental Labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided that the labeling is incorporated into the main labeling within 18 months or at the next printing, whichever comes first..

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

Please submit one (1) copy of the final printed label before you release the product for shipment.

If you have any questions, please call Robert Westin at (703) 305-6700.

Sincerely,

A handwritten signature in cursive script that reads "Mary L. Waller".

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

ENCLOSURE

Rubigan A.S. (EPA Reg. No. 10163-274)

Poa annua Management Program For Overseeded Bermudagrass Greens and Tees

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 A.S. before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Rubigan A.S. according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Rubigan A.S.

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* A.S. fungicide can be used as a tool for reducing *Poa Annua* overseeded bermudagrass greens and tees. 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 A.S. 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 A.S.

Rubigan A.S. Growth Regulating Effect

Rubigan A.S. 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. 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. 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 greens and tees.

Management of *Poa annua* Using Rubigan A.S.

Rubigan A.S., 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. can be timed to coincide with fall fungicide applications for control of late season diseases in bermudagrass.

For optimum control, Rubigan A.S. should be applied 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.

Timing is the critical issue in achieving control of *Poa annua*. Most consistent results are achieved when Rubigan A.S. is applied 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. 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 A.S. should be made at least 30 days before overseeding.

***Poa annua* Control Programs for Rubigan A.S.**

Program	Number of Applications	Application Rate Rubigan A.S.	Spray Interval	Application Timing	Expected Percent Control
A	2	6.0 fl oz per 1000 sq ft	14 days	First application Prior to <i>Poa annua</i> Germination	75 to 95+
B	3	4.0 fl oz per 1000 sq ft	14 days	First application Prior to <i>Poa annua</i> germination	75 to 95+%

Note: A single application of 2.0 fluid ounces of Rubigan A.S. per 1000 square feet in January or February following overseeding will help enhance the suppression of *Poa annua* and prolong this effect through the spring season.

Anticipated Results

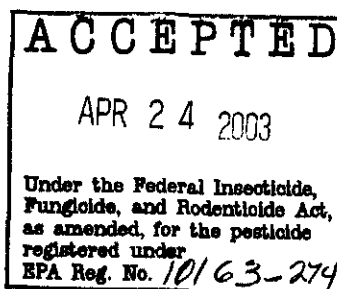
Application of Rubigan A.S. for management of *Poa annua* will coincide with the onset of winter dormancy in bermudagrass. Extended periods of low temperatures and heavy rainfall after an application of Rubigan A.S. may result in yellowing of bermudagrass. This effect is attributable to developing dormancy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

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

Precaution:

- A single application of Rubigan A.S. in excess of 8.0 fluid 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 period of environmental stress, a single high rate application of Rubigan A.S. 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.
- Refer to the label for Rubigan A.S. for additional use directions, precautions and limitations before use.

*Trademark of Gowan Company, LLC



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