

JAN 15 1997

Mr. Douglas M. Roby
DowElanco
9330 Zionsville Road
Indianapolis, IN 46268

Dear Mr. Roby:

Subject: Rubigan A.S. Turf and Ornamental Fungicide
EPA Reg. No. 62719-142
Your Submission of November 26, 1996

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration and reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling change listed below on the label before you release the product for shipment:

a. Move the headings "Precautionary Statements" and "Hazards to Humans and Domestic Animals" to appear below the signal word and Spanish language statement. Repeat the signal word at the beginning of the specific precautionary statements.

b. Delete the statements which were added to the Agricultural Use Requirements box. Reinsert these statements in their previous location (outside and above the Agricultural Use Requirements box).

c. Delete the phrase "approved uses".

d. Delete the reference to Tersan LSR on page 8 under "Additional Disease Control". This product has been canceled.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

2/15

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

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

Sincerely yours,



Connie B. Welch
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

7505C:C.Grable:cg:1/8/97

3/15

Rubigan* A.S. Turf and Ornamental

EPA Reg. No. 62719-142

Registration Notes:

Current label text based on EPA accepted copy dated April 20, 1994 and notification prepared May 30, 1996.

Proposed Label Changes by Amendment:

1. Generic descriptor of product changed to "Specialty Fungicide".
2. Under Turf Applications:
 - * Corrections and clarifications made to list of disease organisms rate recommendation chart;
 - * Agricultural Use requirements box inserted for WPS and nonWPS uses.
3. Under Ornamentals Applications:
 - * Agricultural Use requirements box inserted for WPS and nonWPS uses.
 - * Deleted two rate conversion charts and replaced them with a single chart for field, landscape, and container grown ornamentals.

ACCEPTED
with COMMENTS
in EPA Letter Dated

JAN 15 1997

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
62719-142

*Trademark of DowElanco

Editor's note: Added text underlined and deleted text denoted by strike-through.

'96 NOV 27 P1:16

REC'D
P/OPD1

4/15

(Base label):

(logo) DowElanco

Rubigan* A.S. Turf and Ornamental

A locally systemic fungicide for the control of specified diseases on turfgrasses and ornamentals. For use on: golf courses, parks, athletic fields, commercial and residential areas.

Active Ingredient:

fenarimol: α -(2-chlorophenyl)- α -(4-chlorophenyl)-5-pyrimidinemethanol	11.6%
Inert Ingredients	88.4%
Total	100.0%

Contains 1 pound active ingredient per gallon.

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION PRECAUCION

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.)

Causes Eye Irritation • Harmful If Swallowed, Inhaled Or Absorbed Through The Skin

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

REC'D CIVIL P/DP 96 NOV 27 P 1:5

First Aid

If in eyes: Immediately flush eyes with plenty of water. Call a physician if irritation develops.
If on skin: Wash all exposed areas with plenty of soap and water. Get medical attention if irritation develops.
If inhaled: If discomfort occurs, remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and call a physician.
If swallowed: Call a physician or Poison Control Center immediately. Drink one or two 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.

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 washwaters. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.

Storage and Disposal

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

Notice: Read the entire label. 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: Do not ship or store with food, feeds, drugs or clothing.

Shake Well Before Using.

EPA Reg. No. 62719-142

79 76

EPA Est. 1471-IN-5; 37429-GA-02

Superscripts correspond to places 7 & 8 of lot number.

*Trademark of DowElanco
DowElanco • Indianapolis, IN 46268 U.S.A.

Specialty Fungicide

6/15

(Datapack cover):

(logo) DowElanco

Rubigan* A.S. Turf and Ornamental

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Active Ingredient:

fenarimol: α -(2-chlorophenyl)- α -(4-chlorophenyl)-
5-pyrimidinemethanol 11.6%
Inert Ingredients 88.4%
Contains 1 pound active ingredient per gallon.

Keep Out of Reach of Children

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Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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Specialty Fungicide

Net Contents XXX

(Page 1 through end):

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION PRECAUCION

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Causes Eye Irritation • Harmful If Swallowed, Inhaled Or Absorbed Through The Skin

Avoid breathing spray mist and contact with skin, eyes or 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
- 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 in eyes: Immediately flush eyes with plenty of water. Call a physician if irritation develops.

If on skin: Wash all exposed areas with plenty of soap and water. Get medical attention if irritation develops.

If inhaled: If discomfort occurs, remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and call a physician.

If swallowed: Call a physician or Poison Control Center immediately. Drink one or two 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.

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 washwaters. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

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 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 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.

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
- Chemical-resistant gloves such as Barrier Laminate or Butyl Rubber
- Shoes plus socks
- Protective eyewear

Storage and Disposal

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

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 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: 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.

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.

Chemigation: Do not apply Rubigan A.S. Turf and Ornamental through any type of irrigation system.

Approved Uses

Turf

Agricultural Use Requirements for Uses Within the Scope of the Worker Protection Standard: For use of this product on turf grown for sod or seed production, follow PPE and Reentry restrictions in the Agricultural Use Requirements section of this label.

Agricultural Use Requirements for other Turf Areas : No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is applied to turf in golf courses, parks, athletic fields, and commercial and residential areas.

Application Directions

Rubigan A.S. Turf and Ornamental 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.

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

Rate Recommendations for Rubigan A.S. Turf and Ornamental for Greens and Tees

Disease Organism	Recommended Rates of Rubigan A.S. (fl oz/1000 sq ft)	Spray Interval (days)	Disease Pressure	Comments (see below)
dollar spot (<i>Sclerotinia homoeocarpa</i>) (<i>Moellerodiscus spp.</i>)	0.75	10 - 21	Low to Moderate	12
	1.5	14 - 28	Moderate to Heavy	13
copper spot (<i>Gloeocercospora sorghi</i>)	0.75	10 - 21	Low to Moderate	12
	1.5	14 - 28	Moderate to Heavy	13
rhizoctonia blight/ large brown patch (<i>Rhizoctonia solani</i>)	1.5	7 - 14	Low to Moderate	12
	1.5	7 - 14	Moderate to Heavy	Use tank mixes as discussed below
necrotic ring spot (<i>Leptosphaeria korrae</i>)	2.0	30	All	9, 11
summer patch (<i>Magnaporthe poae</i>)	2.0	30	All	9, 11
fusarium blight (<i>Fusarium culmorum</i>) (<i>Fusarium poae</i>)	2.0	30	All	9, 11
take-all patch (<i>Gaeumannomyces graminis var. avenae</i>)	4.0	30	All	9, 14
spring dead spot (<i>Leptosphaeria korrae</i>) (<i>Ophiosphaerella herpotricha</i>) (<i>Gaeumannomyces graminis var. graminis</i>)	4.0 - 6.0	Single Application	All	4, 9
fusarium patch/ pink snow mold (<i>Gerlachia nivalis</i>)	8.0	1 or 2 Applications	All	2, 3, 8
typhula blight/ gray snow mold (<i>Typhula incarnata</i>) (<i>Typhula ishikariensis</i>)	8.0	1 or 2 Applications	All	2, 8

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

Rate Recommendations for Rubigan A.S. Turf and Ornamental for Other Turf Areas

Disease Organism	Recommended Rates Rubigan A.S. (fl oz/1000 sq ft)	Spray Interval (days)	Disease Pressure	Comments (see below)
dollar spot (<i>Sclerotinia homoeocarpa</i>) (<i>Moellerodiscus spp.</i>)	0.75	30	All	12
anthracnose (<i>Colletotrichum graminicola</i>)	1.75 - 3.5	30	All	1
copper spot (<i>Gloeocercospora sorghi</i>)	0.75	10 - 21	Low to Moderate	12
	1.5	14 - 28	Moderate to Heavy	13
rhizoctonia blight/ large brown patch (<i>Rhizoctonia solani</i>)	1.5	7 - 14	Low to Moderate	12
	1.5	7 - 14	Moderate to Heavy	Use tank mixes as discussed below
necrotic ring spot (<i>Leptosphaeria korrae</i>)	4.0 - 8.0	1 or 2 Applications	All	5, 9
summer patch (<i>Magnaporthe poae</i>)	4.0 - 8.0	1 or 2 Applications	All	5, 9
fusarium blight (<i>Fusarium culmorum</i>) (<i>Fusarium poae</i>)	4.0 - 8.0	1 or 2 Applications	All	5, 9
stripe smut (<i>Ustilago striiformis</i>)	15.0	Single	All	2, 9, 10
fusarium patch/ pink snow mold (<i>Gerlachia nivalis</i>)	8.0	1 or 2 Applications	All	2, 3, 8
typhula blight/ gray snow mold (<i>Typhula incarnata</i>) (<i>Typhula ishikariensis</i>)	8.0	1 or 2 Applications	All	2, 8
corticium red thread (<i>Laetisaria fuciformis</i>)	8.0	30	All	2, 7
take-all patch (<i>Gaeumannomyces graminis</i>)	4.0 - 8.0	1 or 2 Applications	All	6, 9
powdery mildew (<i>Erysiphe graminis</i>)	2.0 - 4.0	Single Application	All	13
spring dead spot (<i>Leptosphaeria korrae</i>) (<i>Ophiosphaerella herpotricha</i>) (<i>Gaeumannomyces graminis</i> var. <i>graminis</i>)	4.0 - 6.0	Single Application	All	4, 9

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 such as 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 conditions, Rubigan A.S. Turf and Ornamental should be applied at 2.0 fl oz /1000 sq ft every 3 to 4 weeks during periods of favorable disease conditions.
4. For spring dead spot, make a single application of 4.0 fl oz /1000 sq ft in September, or 6.0 fl oz /1000 sq ft in October or November.
5. Rubigan A.S. Turf and Ornamental should be applied 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 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.
6. For take-all patch, Rubigan A.S. Turf and Ornamental should be applied 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. Applications should be made prior to permanent snow cover or frozen soil.
7. Applications for corticium 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 A.S. Turf and Ornamental should be applied 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.
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 this time, the lower rate, longer spray interval recommendations can begin.
14. For greens and tees, Rubigan A.S. Turf and Ornamental should be applied preventative in two applications of 4.0 fl oz /1000 sq ft 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.

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 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 A.S. Turf and Ornamental 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 for Turf

Label Rates of Rubigan A.S./1000 sq ft	Quantity Rubigan A.S. Per Acre
0.75 fl oz	1 qt
1.50 fl oz	2 qt
2.00 fl oz	2.75 qt
4.00 fl oz	5.5 qt
6.00 fl oz	8 qt
8.00 fl oz	11 qt
15.00 fl oz	20 qt

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

Agricultural Use Requirements for Uses Within the Scope of the Worker Protection Standard: For use of this product on field grown ornamentals, follow PPE and Reentry restrictions in the Agricultural Use Requirements section of this label.

Agricultural Use Requirements for other Areas: No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is applied to landscape ornamentals.

Rubigan A.S. Turf and Ornamental is a locally systemic fungicide for the prevention or therapeutic control of powdery mildew of field or landscape grown roses and field, landscape 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 sunny conditions have exhibited no such effects.

Application Directions

Rubigan A.S. Turf and Ornamental 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 insure a uniform spray mixture. Apply Rubigan A.S. Turf and Ornamental with sufficient pressure and spray volume to insure 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 A.S. Turf and Ornamental should begin at the earliest appearance of signs or symptoms of disease.

Field or Landscape Grown Roses**Recommended Usage Rates and Spray Intervals**

Disease Severity†	Recommended Rates of Rubigan A.S. (fl oz/100 gal)	Spray Interval (days)
Low	4-5	10-14
Medium	6-8	10-14
High	8-12	7-10

†Low (1-30), Medium (30-60), High (60-100) percent of leaves on individual plants infected with disease organism.

Rubigan A.S. Turf and Ornamental Rate Recommendations - Field, Landscape And Container Grown Ornamentals

<u>Species</u>	<u>Disease</u>	<u>Recommended Rates and Timing For Rubigan A.S. Turf and Ornamental†</u>
<u>Ajuga</u> <u>Begonia</u> <u>Calendula</u> <u>Chrysanthemum</u> <u>Dahlia</u> <u>Delphinium, Hydrangea</u> <u>Phlox</u> <u>Sweet Pea</u> <u>Verbena</u> <u>Zinnia</u>	<u>Powdery Mildew</u>	<u>3-5 fl oz/100 gallons</u> <u>every 10 to 14 days</u>
<u>Crape Myrtle</u> <u>Euonymus</u> <u>Photinia</u> <u>Roses</u> (field and landscape only)	<u>Powdery Mildew</u>	<u>6-10 fl oz/100 gallons</u> <u>every 10 to 14 days</u>
<u>Crabapple</u> <u>Hawthorn</u>	<u>Scab</u> <u>Rust</u> <u>Powdery Mildew</u>	<u>4-12 fl oz/100 gallons</u> <u>every 7 to 14 days beginning at green tip.</u>

†Apply Rubigan A.S. Turf and Ornamental 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 rates and shorter spray intervals when greater than 10 percent leaf infection occurs and environmental conditions encourage disease spread.

Tank Mixtures: In areas where blackspot occurs, Rubigan A.S. Turf and Ornamental 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 A.S. Turf and Ornamental from the table above.

Note to User: 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 sunny conditions have exhibited no such effects.

14/15

**Field, Landscape or Container Grown Ornamentals
Recommended Usage Rates and Spray Intervals**

Recommended Plant Species	Type of Application	Recommended Rates† of Rubigan A.S. fl oz/100 gal	Spray Interval‡ (days)
ajuga, begonia, calendula, chrysanthemum, dahlia, delphinium, hydrangea, phlox, sweet pea, verberna, zinnia	ground	3-5	10-14
crapemyrtle, euonymus, photinia	ground	6-10	10-14

†Apply Rubigan A.S. Turf and Ornamental 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 rates and shorter spray intervals when greater than 10 percent leaf infection occurs and environmental conditions encourage disease spread.

Flowering Crabapples, Hawthorn

For control of scab, powdery mildew and rusts apply Rubigan A.S. Turf and Ornamental at 4-12 fl oz /100 gallons of water. Begin applications when disease first appears and repeat at 7-14 day intervals throughout the growing season. Use the shorter intervals or higher rates during humid, rainy weather.

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 temperature, 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

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