

10163-275

09/18/2006

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

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

SEP 18 2006

Subject: Rubigan ® E.C. (EPA Reg. No. 10163-273)
D#350034
Rubigan ® A.S. (EPA Reg. No. 10163-275)
D#350035
Your submission dated: September 24, 2004

Dear Ms. Butcher:

The amended labels referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended are acceptable provided the following conditions are met:

- Revise the label for each product by adding the following phrase, "**To the extent consistent with applicable law,**" preceding the following statements beginning, "All such risks..." and "Gowan Company makes no expressed or implied warranty..." in the Notice of Conditions of Sale and Warranty and Liability Limitations section.
- Revise the label for Rubigan E.C., by changing "protective eyewear" to "goggles or face shield" in the Personal Protective Equipment (PPE) section of the Precautionary Statements and in the Agricultural Use Requirements box.
- Submit three grape trials (Guidelines No. 860.1500) using the product (Rubigan E.C., 10163-273) with a surfactant tested side by side with the product applied without a surfactant in Region 10 (2 sites) and Region 11/12 (1 site) to the Agency by September 30, 2008.

The above data requirement was included in the HED review dated 10/13/05 and sent to Sandra Alcaraz/Gowan Company on 11/10/05. Please note that the product name is incorrect in the conclusion section of the 10/13/05 HED review and should reference Rubigan E.C., 10163-273 regarding surfactant use.

One copy of the label stamped "Accepted with Comments" 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 questions, please contact Lana Coppolino by phone at 703-305-0086 or via email at coppolino.lana@epa.gov.

Sincerely,

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

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

Enclosures

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ACCEPTED
with COMMENTS
In EPA Letter Dated

SEP 18 2006

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

Rubigan® A.S.

for the control of scab, powdery mildew and rusts of apple; scab and powdery mildew of pear;
scab and powdery mildew of pecan and powdery mildew of grape.

10163-275

ACTIVE INGREDIENT	% By Wt.
Fenarimol: a-(2-chlorophenyl)-a-(4-chlorophenyl)-5-pyrimidinemethanol.....	11.6%
OTHER INGREDIENTS.....	88.4%
	TOTAL 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 FUNGICIDE	
If in eyes	<ul style="list-style-type: none"> 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. Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-478-0798 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 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 (PVC) or Viton
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

NET CONTENTS _____ QUART

EPA Reg. No. 10163-275
EPA Est. Nos. 67545-AZ-1 and 37429-GA-2



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

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas 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 wash waters or rinsate.

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 workers 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, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Polyvinyl Chloride (PVC), or Viton
- Shoes plus socks

GENERAL INFORMATION

Rubigan A.S. is a locally systemic fungicide for the control of scab, powdery mildew and rusts of apple, scab and powdery mildew of pear, scab and powdery mildew of pecan, and powdery mildew of grape.

GENERAL USE PRECAUTIONS

- Do not graze cover crops treated with Rubigan A.S. or harvest forage for silage or hay.
- Do not apply more than 84 fl. ozs. of Rubigan A.S. per acre per season on apple, pear and pecan; or 21 fl. ozs. per acre per season on grapes
- Do not apply Rubigan A.S. through any type of irrigation system.
- Observe rate restrictions and preharvest intervals outlined for each crop.

MIXING AND APPLICATION DIRECTIONS

Add Rubigan A.S. to at least a one-half (1/2) full spray tank and continually agitate during the completion of filling and spraying operations.

When tank mixed with other products, dry flowables should be added first to a half-full spray tank and then add the required amount of Rubigan A.S. The addition of subsequent formulations should be in the following order. Aqueous suspensions or liquid flowables should be added after Rubigan A.S., followed by wettable powders and then emulsifiable concentrates. Continually agitate during the completion of filling and spraying operations. 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.

USE AND DOSAGE RECOMMENDATIONS

**Apples: Disease Control Recommendations for Eastern United States (East of the Rocky Mountains/Continental Divide)
Rubigan A.S.¹**

CROP AND DISEASE	USE DIRECTIONS AND RESTRICTIONS
<p>Apples Scab (Regular Schedule for Prevention)</p>	<p>Apply Rubigan A.S. alone starting at green tip. Continue applications on a 7-day schedule. Use Rates: Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre when used alone on a regular 7 day schedule. Under severe scab infection conditions, use the higher end of the Rubigan A.S. rate range when used alone. Do not exceed 12 fl. ozs. per acre per application. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. alone or in tank-mix combination at the rate of 3 or more fl. ozs. Per 100 gallons of water in a uniform spray applied to run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre): Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre.</p>
<p>Apples Scab (Extended Regular Schedule for Prevention)</p>	<p>Rubigan A.S. may be applied in tank-mix combination with a protectant fungicide and its recommended use rate on an extended regular schedule to control apple scab. Application should start at green tip and be continued at intervals not to exceed 10 days. Use Rates – Rubigan A.S. and Protectant Fungicide: Under light scab infection conditions, use Rubigan A.S. at 6 or more fl. ozs. per acre in tank-mix combination with protectant fungicide. When moderate to severe scab infection conditions occur and growth of new tissue is rapid, use 6 or more fl. ozs. per acre and shorter spray intervals, i.e., 7 days when used in tank-mix combination with protectant fungicides. Do not exceed 12 fl. ozs. per acre per application. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. alone or in tank-mix combination at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre): Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre when used in combination with another protectant fungicide.</p>
<p>Apples Scab (Post-Infection Schedule)</p>	<p>Rubigan A.S. may be applied on a post-infection schedule. Application should be made within 96 hours (4 days) from the beginning of the first primary scab infection period and followed by a second application 7 days later. <u>Growers who do not have access to accurate on farm apple scab infection period data should not use the post-infection schedule.</u> Use Rates: Apply Rubigan A.S. at 9 to 12 fl. ozs. per acre within 96 hours from the beginning of apple scab infection period, and follow with a second application at 6 to 9 fl. ozs. per acre 7 days later. When severe scab infection periods occur, use the higher end of the Rubigan A.S. rate range for each application. Do not exceed 12 fl. ozs. per acre per application. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S., alone or in tank-mix combination at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre): Apply Rubigan A.S. at 6 to 12 ozs. per acre.</p>
<p>Apples Powdery Mildew and/or Rust Schedule</p>	<p>Use Rates: For the control of powdery mildew or rusts, use Rubigan A.S. alone or in combination at 6 to 9 fl. ozs. per acre for light to moderate infection levels or 9 to 12 fl. ozs. per acre for severe infection levels starting at green tip. Do not allow the spray interval to exceed 14 days. Do not exceed 12 fl. ozs. per acre per application. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. alone or in tank-mix combination at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre): Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre.</p>

1. Do not apply within 30 days of harvest.
2. Do not apply more than 24 fl. ozs. of Rubigan A.S. per acre per season on apples.
3. Climatic conditions, varietal susceptibility and disease history of the orchard should be considered when choosing a use rate and spray schedule program for Rubigan A.S.
4. Apply Rubigan A.S. on a regular schedule, an extended regular combination schedule, or a post-infection schedule or a powdery mildew and/or rust schedule. Whichever schedule is used, the Rubigan A.S. application prior to switching to a program utilizing protectant fungicides alone should include a protectant fungicide (a nonsterol inhibiting fungicide) in tank-mix combination with Rubigan A.S.
5. Use ground application equipment only.
6. A minimum of 3 fl. oz/100 gals. dilute should be used for applications based on tree row volume calculations. Due to the variability of spraying conditions, spray coverage and drying times, no less than 6 fl. ozs. of Rubigan A.S. in combination with a protectant fungicide should be used per acre in tree row volume sprays.

**Apples: Disease Control Recommendations for Western United States (West of the Rocky Mountains/Continental Divide)
Rubigan A.S.¹**

CROP AND DISEASE	USE DIRECTIONS AND RESTRICTIONS
Apples Scab (Regular Schedule)	For the control of apple scab, apply Rubigan A.S. starting at green tip. Continue applications on a 7 to 10 day schedule. Use the higher rates and shorter intervals when disease conditions are severe. Do not apply less than 9 fl. ozs. or more than 12 fl. ozs. of Rubigan A.S. per acre. Do not exceed 12 fl. ozs. per acre per application. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to the point of run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre), use ground application equipment only: Apply Rubigan A.S. at 9 to 12 fl. ozs. per acre.
Apples Scab (Extended Regular Schedule)	Rubigan A.S. may be applied in tank-mix combination with a protectant fungicide at its recommended use rate. Application should start at green tip and continue on intervals not to exceed 10 days when using the extended regular schedule to control apple scab. Use the higher combination rates and shorter spray intervals, i.e., 7 days, when disease conditions are severe. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to the point of run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre), use ground application equipment only: Apply Rubigan A.S. at 9 to 12 fl. ozs. per acre.
Apples Scab (Post-Infection Schedule)	Rubigan A.S. may be applied on a post-infection schedule. The first application should be made within 96 hours (4 days) from the beginning of the first scab infection period. <u>Growers who do not have access to accurate apple scab infection period data should not use the post-infection schedule.</u> Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to the point of run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre), use ground application equipment only: Apply Rubigan A.S. at 9 to 12 fl. ozs. per acre. Post-infection applications of Rubigan A.S. should be based on the following procedures explained in paragraphs 1 to 3 below, which determine the proper timing for Rubigan A.S. applications. Paragraph 1 will always determine the proper timing of the first Rubigan A.S. application. To determine the proper timing of subsequent applications, the situations explained in paragraphs 2 and 3 must be considered. <ol style="list-style-type: none"> 1. The first Rubigan A.S. application should be made within 96 hours (4 days) from the beginning of the first primary apple scab infection period. 2. If one or more scab infection periods occur within 3 days after a Rubigan A.S. application, then Rubigan A.S. should be applied within 7 days of the previous Rubigan A.S. application. Do not allow the spray interval to exceed 7 days in this situation. 3. If no apple scab infection period occurs within 3 days after a Rubigan A.S. application, then apply Rubigan A.S. within 96 hours (4 days) after the beginning of the next scab infection period.
Apples Powdery Mildew Schedule	For the control of powdery mildew of apple, Rubigan A.S. should be applied on the following schedule as indicated by the stage of crop development. <ol style="list-style-type: none"> 1. Green-tip 2. Prepink/pink 3. Petal fall 4. First Cover For the control of powdery mildew, do not exceed 14 days between Rubigan A.S. applications. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to the point of run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre), use ground application equipment only: Apply Rubigan A.S. at 9 to 12 fl. ozs. per acre.

1. Do not apply within 30 days of harvest.
2. Do not apply more than 84 fl. ozs. of Rubigan A.S. per acre per season on apples.
3. Climatic conditions, varietal susceptibility and disease history of the orchard should be considered when choosing a use rate and spray schedule program for Rubigan A.S.
4. Apply Rubigan A.S. on a regular schedule, an extended regular combination schedule, or a post-infection schedule or a powdery mildew and/or rust schedule. Whichever schedule is used, the Rubigan A.S. application prior to switching to a program utilizing protectant fungicides alone should include a protectant fungicide (a nonsterol inhibiting fungicide) in tank-mix combination with Rubigan A.S.
5. Use ground application equipment only.
6. A minimum of 3 fl. oz/100 gals. dilute should be used for applications based on tree row volume calculations. Due to the variability of spraying conditions, spray coverage and drying times, no less than 6 fl. Oz of Rubigan A.S. in combination with a protectant fungicide should be used per acre in tree row volume sprays.

Pears: Disease Control Recommendations for Eastern United States (East of the Rocky Mountains/Continental Divide)
Rubigan A.S.¹

CROP AND DISEASE	USE DIRECTIONS AND RESTRICTIONS
Pears Scab (Regular Schedule for Prevention)	Apply Rubigan A.S. alone starting at green tip. Continue applications on a 7-day schedule. Use Rates: Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre when used alone on a regular 7 day schedule. Under severe scab infection conditions, use the higher end of the Rubigan A.S. rate range when used alone. Do not exceed 12 fl. ozs. per acre per application. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. alone or in tank-mix combination at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre): Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre.
Pears Scab (Extended Regular Schedule for Prevention)	Rubigan A.S. may be applied in tank-mix combination with a protectant fungicide at its recommended use rate on an extended regular schedule to control pear scab. Application should start at green tip and be continued at intervals not to exceed 10 days. Use Rates – Rubigan A.S. and Protectant Fungicide: Under light scab infection conditions, use Rubigan A.S. at 4 or more fl. ozs. per acre in tank-mix combination with protectant fungicide. When moderate to severe scab infection conditions occur and growth of new tissue is rapid, use 6 or more fl. ozs. per acre and shorter spray intervals, i.e., 7 days, when used in tank-mix combination with protectant fungicides. Do not exceed 12 fl. ozs. per acre per application. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. alone or in tank-mix combination at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre): Apply Rubigan A.S. at 4 to 12 fl. ozs. per acre when used in combination with another protectant fungicide.
Pears Scab (Post-infection Schedule)	Rubigan A.S. may be applied on a post-infection schedule. Application should be made within 96 hours (4 days) from the beginning of the first primary scab infection period and followed by a second application 7 days later. <u>Growers who do not have access to accurate on farm pear scab infection period data should not use the post-infection schedule.</u> Use Rates: Apply Rubigan A.S. at 9 to 12 fl. ozs. per acre within 96 hours from the beginning of pear scab infection period, and follow with a second application at 6 to 9 fl. ozs. per acre 7 days later. When severe scab infection periods occur, use the higher end of the Rubigan A.S. rate range for each application. Do not exceed 12 fl. ozs. per acre per application. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. alone or in tank-mix combination at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to run-off with conventional ground spray equipment. Concentrate Spray (less than 200 gallons per acre): Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre.
Pears Powdery Mildew Schedule	Use Rates: For the control of powdery mildew, Use Rubigan A.S. alone or in combination at 6 to 9 fl. ozs. per acre for light to moderate infection levels or 9 to 12 fl. ozs. per acre for severe infection levels starting at green tip. Do not allow the spray interval to exceed 14 days. Do not exceed 12 fl. ozs. per acre per application. Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. alone or in tank-mix combination at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to run-off with conventional ground spray equipment. Concentrate Spray: (less than 200 gallons per acre): Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre.

1. Do not apply Rubigan A.S. within 30 days of harvest.
2. Climatic conditions, varietal susceptibility and disease history of the orchard should be considered when choosing a use rate and spray schedule program for Rubigan A.S.
3. Do not apply more than 64 fl. ozs. of Rubigan A.S. per acre per season on pears.
4. Apply Rubigan A.S. on a regular schedule, an extended regular combination schedule, or a post-infection schedule of a powdery mildew schedule. Whichever schedule is used, the Rubigan A.S. application prior to switching to a program utilizing protectant fungicides alone should include a protectant fungicide (a nonsterol inhibiting fungicide) in tank-mix combination with Rubigan A.S.
5. Use ground application equipment only.
6. A minimum of 3 fl. oz./100 gals. dilute should be used for applications based on tree row volume calculations. Due to variability of spraying conditions, spray coverage and drying times, no less than 4 fl. oz. of Rubigan A.S. in combination with a protectant fungicide should be used per acre in tree row volume sprays.

Pears: Disease Control Recommendations for Western United States (West of the Rocky Mountain/Continental Divide)
Rubigan A.S.¹

CROP AND DISEASE	USE DIRECTIONS AND RECOMMENDATIONS
Pears Scab (Post-Infection Schedule)	<p>Rubigan A.S. may be applied on a post-infection schedule. The first application should be made within 96 hours (4 days) from the beginning of the first scab infection period. <u>Growers who do not have access to accurate pear scab infection period data should not use the post-infection schedule.</u></p> <p>Use Rates: Apply Rubigan A.S. at 9 to 12 fl. ozs. per acre within 96 hours from the beginning of pear scab infection period, and follow with a second application at 6 to 9 fl. ozs. per acre 7 days later. When severe scab infection periods occur, use the higher end of the Rubigan A.S. rate range for each application. Do not exceed 12 fl. ozs. per acre per application.</p> <p>Post-infection applications of Rubigan A.S. should be based on the following procedures in paragraphs 1 to 4 below, which determine the proper timing for Rubigan A.S. applications. Paragraph 1 will always determine the proper timing of the first Rubigan A.S. application. To determine the proper timing of subsequent applications, the situations explained in paragraphs 2, 3 and 4 must be considered.</p> <ol style="list-style-type: none"> 1. The first Rubigan A.S. application should be made within 96 hours (4 days) from the beginning of the first primary pear scab infection period. 2. If one or more scab infection periods occur within 3 days after a Rubigan A.S. application, the Rubigan A.S. should be applied within 7 days of the previous Rubigan A.S. application. Do not allow the spray interval to exceed 7 days in this situation. 3. If no pear scab infection periods occur within 3 days after a Rubigan A.S. application, then apply Rubigan A.S. within 96 hours (4 days) after the beginning of the next scab infection period.
Pears Powdery Mildew	<p>For the control of powdery mildew, Rubigan A.S. should be applied on the following schedule as indicated by the stage of crop development.</p> <ol style="list-style-type: none"> 1. Tight Cluster 2. Pink 3. Petal Fall 4. First Cover <p>Use Rates: For the control of powdery mildew, Use Rubigan A.S. alone or in combination at 6 to 9 fl. ozs. per acre for light to moderate infection levels or 9 to 12 fl. ozs. per acre for severe infection levels starting at green tip. Do not allow the spray interval to exceed 14 days. Do not exceed 12 fl. ozs. per acre per application.</p> <p>Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. alone or in tank-mix combination at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to run-off with conventional ground spray equipment.</p> <p>Concentrate Spray: (less than 200 gallons per acre): Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre.</p>

1. Do not apply Rubigan A.S. within 30 days of harvest.
2. Climatic conditions, varietal susceptibility and disease history of the orchard should be considered when choosing a use rate and spray schedule program for Rubigan A.S.
3. Do not apply more than 84 fl. ozs. of Rubigan A.S. per acre per season on pears.
4. Apply Rubigan A.S. on a regular schedule, an extended regular combination schedule, or a post-infection schedule of a powdery mildew schedule. Whichever schedule is used, the Rubigan A.S. application prior to switching to a program utilizing protectant fungicides alone should include a protectant fungicide (a nonsterol inhibiting fungicide) in tank-mix combination with Rubigan A.S.
5. Use ground application equipment only.
6. A minimum of 3 fl. oz./100 gals. dilute should be used for applications based on tree row volume calculations. Due to variability of spraying conditions, spray coverage and drying times, no less than 4 fl. oz. of Rubigan A.S. in combination with a protectant fungicide should be used per acre in tree row volume sprays.

Pecans: Disease Control recommendations
Rubigan A.S.¹

CROP	USE DIRECTIONS AND RESTRICTIONS
Pecans	<p>Use Rates: Do not apply less than 9 fl. ozs. or more than 12 fl. ozs. of Rubigan A.S. per acre. Use the higher range of the Rubigan A.S. rates during conditions suitable for heavy disease infection (i.e., for scab, several hours of leaf wetting at temperatures above 50°).</p> <p>Spray Volume Per Acre: Dilute Spray (200 or more gallons per acre): Apply Rubigan A.S. at the rate of 3 or more fl. ozs. per 100 gallons of water in a uniform spray applied to the point of run-off with conventional ground spray equipment. Do not exceed 12 fl. ozs. per acre.</p> <p>Concentrate Spray: (less than 200 gallons per acre), use ground application equipment only: Apply Rubigan A.S. at 9 to 12 fl. ozs. per acre.</p> <p>Application Schedule: For the control of scab and powdery mildew, apply Rubigan A.S. at 7 to 10 day schedule starting at bud break. Applications should continue up to and including the point where nuts are up to one-half inch (1/2") long. Thereafter, Rubigan A.S. should be used in tank-mix combination with a protectant fungicide at its recommended use rate. The Rubigan A.S. application prior to switching to a program utilizing a protectant-only application should include a protectant fungicide (a nonsterol-inhibiting fungicide with limited curative activity) as a tank-mix combination.</p> <p>Do not use Rubigan A.S. on the Wichita variety.</p> <p>Do not apply Rubigan A.S. within 30 days of harvest.</p> <p>Do not apply more than 84 fl. ozs. of Rubigan A.S. per acre per season on Pecans</p>

**Grapes: Disease Control Recommendations Western United States (West of the Rocky Mountain Continental Divide)
Rubigan A.S.**

CROP	USE RATE PER ACRE (FL OZ)	MAXIMUM SPRAY INTERVAL (DAYS)	USE DIRECTIONS AND RESTRICTIONS
Grapes Powdery Mildew (Pre-bloom) 18-24" Shoot Full Bloom Post-bloom 2 nd Post-bloom	3-4 5 6 6	14-18 14-18 14-18 14-18	Lower rates are recommended for early season applications when disease pressure is less intense. Applications of Rubigan A.S. at rates higher than recommended at prebloom may result in slight foliar injury consisting of: leaf coupling and darker green leaf color. Minimum Spray Concentration: 3 fl. oz. per 100 gallons of water. Maximum Rates: Do not apply more than 6 fl. ozs. of Rubigan A.S. per acre per application. Do not apply more than 21 fl. ozs. of Rubigan A.S. per season. Do not apply Rubigan A.S. within 21 days of harvest.

**Grapes: Disease Control Rates for Eastern United States (East of the Rocky Mountain Continental Divide)
Rubigan A.S.**

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Pesticide Storage: Avoid freezing. Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose of waste.
Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Waste 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.

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

NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

Important: 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 recommendations for use of this product are based on test 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. **All such risks shall be assumed by the Buyer and User.**

Gowan Company warrants that this product conforms to the specifications on the label when used in strict conformance with Directions for Use, subject to the above stated risk limitations. **GOWAN COMPANY MAKES NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

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