

10163-275

3/3/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Krystal Hengl
Registration Specialist
Gowan
P.O. Box 5569
Yuma, AZ 85366-5569

MAR 3 2011

Product Name: Rubigan A.S.
EPA Reg. No.: 10163-275
Subject: Your notification dated December 17, 2010: correction of
typographical error on label
EPA Decision Number: 444637

Dear Ms Hengl:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated April 28, 2008. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at westin.robert@epa.gov.

Sincerely,

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

Mary L. Waller
Product Manager (21)
Fungicide Branch
Registration Division (7504P)



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 10163-275	2. EPA Product Manager Mary Waller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Rubigan AS Ag	PM# Team# 21	
5. Name and Address of Applicant (Include ZIP Code) Gowan Company P.O. Box 5569 Yuma, AZ 85366-5569 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification to change typo

Section - III

~~1. Material This Product Will Be Packaged In:~~

Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	

~~3. Location of Net Contents Information
 Label Container~~

~~4. Size(s) Retail Container~~

~~5. Location of Label Directions
 On labeling~~

~~6. Manner in Which Label is Affixed to Product
 Lithograph Paper glued Stenciled Other _____~~

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Krystal Hengl	Title Registration Specialist	Telephone No. (Include Area Code) 928-819-1526
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Certification
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature
K. Hengl

3. Title
Registration Specialist

4. Typed Name
Krystal Hengl

5. Date
December 17, 2010

6. Date Application Received (Stamped)

NOTIFICATION

MAR 3 2011

4/12

Rubigan® A.S.

A locally systemic fungicide for the control of scab, powdery mildew and rusts on apples; scab and powdery mildew on pears and pecans; leaf spot and powdery mildew on cherries; and powdery mildew on grapes and hops.

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	
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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

NET CONTENTS _____ GALLON

EPA Reg. No. 10163-275
EPA Est. No.



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

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.

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.

Fenarimol has the 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.

This product is classified as having high potential for runoff for several months or more after application. A level, well-maintained 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. 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 24 hours.

PPE required 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. fungicide is designed to control various foliar and fruit diseases of apples, pears, grapes, pecans, cherries and hops listed in each respective crop section. Rubigan A.S. controls susceptible fungal diseases by preventing the formation of certain sterol components and other materials necessary for their growth. Rubigan A.S. is absorbed into the plant foliage and is not easily washed off by rain or overhead irrigation. Rubigan A.S. is compatible with most insecticides, miticides and fungicides commonly recommended for the crops listed.

GENERAL USE RESTRICTIONS

- 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.
- Apply Rubigan A.S. with ground application equipment only.

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 rate may be exceeded and the most restrictive label limitations and precautions must be adhered to.

USE AND DOSAGE DIRECTIONS

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

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 labeled use rate on an extended regular schedule to control apple scab. Start application at green tip and continue 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 48 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 nonsteroid inhibiting fungicide) in tank-mix combination with Rubigan A.S.
5. Use ground application equipment only.
6. A minimum of 3 fl. ozs./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.
7. Do not apply Rubigan A.S. more than 4 times per year.

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

CROP AND DISEASE	USE DIRECTIONS AND RESTRICTIONS
Apples Scab (Regular Schedule)	<p>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.</p> <p>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.</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.</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>
Apples Scab (Extended Regular Schedule)	<p>Rubigan A.S. may be applied in tank-mix combination with a protectant fungicide at its labeled use rate. Start application at green tip and continue at 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.</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.</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>
Apples 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 apple scab infection period data should not use the post-infection schedule.</u></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.</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>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.</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 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	<p>For the control of powdery mildew of apple, apply Rubigan A.S. on the following schedule as indicated by the stage of crop development.</p> <ol style="list-style-type: none"> 1. Green-tip 2. Pre-pink/pink 3. Petal fall 4. First Cover <p>For the control of powdery mildew, do not exceed 14 days between Rubigan A.S. applications.</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.</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>

1. Do not apply within 30 days of harvest.
2. Do not apply more than 48 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. ozs./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.
- 7. Do not apply Rubigan A.S. more than 4 times per year.

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

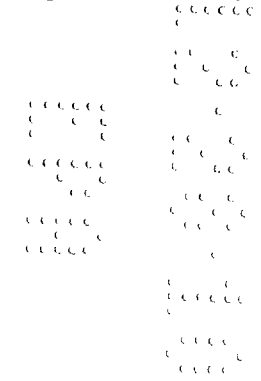
CROP AND DISEASE	USE DIRECTIONS AND RESTRICTIONS
Pears Scab (Regular Schedule for Prevention)	Apply Rubigan A.S. alone starting at green tip. Continue applications on a 7-day schedule. Use Rates: Apply Rubigan A.S. at 6 to 12 fl. ozs. per acre when used alone on a regular 7 day schedule. Under severe 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 labeled 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. Make applications 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 48 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. ozs./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.
- 7. Do not apply Rubigan A.S. more than 4 times per year.

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

CROP AND DISEASE	USE DIRECTIONS AND RESTRICTIONS
<p>Pears Scab (Post-Infection Schedule)</p>	<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 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.</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.
<p>Pears Powdery Mildew</p>	<p>For the control of powdery mildew, apply Rubigan A.S. 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 48 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. ozs./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. ozs. of Rubigan A.S. in combination with a protectant fungicide should be used per acre in tree row volume sprays.
7. Do not apply Rubigan A.S. more than 4 times per year.



**Pecans: Disease Control Rates
Rubigan A.S.**

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. Continue applications up to and including the point where nuts are up to one-half inch (1/2") long. Thereafter, use Rubigan A.S. in tank-mix combination with a protectant fungicide at its labeled 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 48 fl. ozs. of Rubigan A.S. per acre per season on Pecans</p> <p>Do not apply Rubigan A.S. more than 4 times per year.</p>

**Cherries: Disease Control Rates for Eastern United States (East of the Rocky Mountain Continental Divide)
Rubigan A.S.¹**

Crop Disease Growth Stage	Use rate per acre (fl oz)	Use rate per 100 gal. of water dilute ² (fl oz)	Maximum spray interval (days)	Use Directions and Restrictions
Cherries Leaf spot and Powdery Mildew (Petal fall – Post-harvest)	6-12	3-4	7-10	<p>Application timing: Begin applications at "petal fall" and continue until "harvest". One or two "post-harvest" applications may be made within 45 days after "harvest". If an "alternate row" spray program is used, do not exceed a 7-day spray interval.</p> <p>Restrictions: Do not apply more than 12 fl oz of Rubigan A.S. per acre per application and more than 36 fl oz per acre prior to "harvest". Rubigan A.S. may be applied up to and after "harvest". Do not apply more than 4 times per year.</p>

¹Use a surfactant when Rubigan A.S. is applied alone. See "Use of Surfactants" section in the General Information section.

²Dilute Sprays are sprayed until the point of runoff. Gallonage of dilute sprays will vary depending on tree size, density of canopy and stage of growth of the trees and tree spacing in the orchard.

**Cherries: Disease Control Rates for Western United States (West of the Rocky Mountain Continental Divide)
Rubigan A.S.¹**

Crop Disease Spray Schedule	Use rate per acre (fl oz)	Use rate per 100 gal. of water dilute (fl oz)	Maximum spray interval (days)	Use Directions and Restrictions
Cherries Leaf spot (late bloom-harvest)	6-12	2-3	14-21	<p>Application timing: Rubigan A.S. may be applied alone or in tank mix combination with recommended rates of a protectant fungicide. Begin applications at "late bloom" to "petal fall" and continue until "harvest".</p> <p>Restrictions: Do not apply more than 12 fl oz of Rubigan A.S. per acre per application or more than 48 fl oz per acre prior to "harvest". Rubigan A.S. may be applied up to "harvest". Do not apply more than 4 times per year.</p>
Powdery Mildew (late bloom-harvest)				

¹Dilute sprays are sprayed until point of runoff. Gallonage of dilute sprays will vary depending on tree size, density of canopy and stage of growth of the trees and tree spacing in the orchard.

**Grapes: Disease Control Rates 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 labeled for early season applications when disease pressure is less intense. Applications of Rubigan A.S. at rates higher than labeled at prebloom may result in slight foliar injury consisting of: leaf cupping and darker green leaf color. Minimum Spray Concentration: 3 fl. ozs. 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. Do not apply Rubigan A.S. more than 4 times per year.

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: Waste 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 or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. 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 1/4 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® (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 directions 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. 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 when used in strict conformance with Directions for Use, subject to the above stated risk limitations. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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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EPA Text: Rubigan AS Ag NOTIF (to EPA 12-17-10)