

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Elanco Regulatory Services  
Elanco Products Company  
740 South Alabama Street  
Indianapolis, IN 46285

FEB 18 1986

Attention: Richard P. Bing

Gentlemen:

Subject: Rubigan E.C.  
EPA Registration No. 1471-146  
Amendment to add use on pecans

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

1. You will submit the data listed below, conducted in accordance with the pesticide registration data requirements referred to below,

° Federal Register Vol. 49, No. 207, pp. 42856-42905, October 24, 1984.

- a. Section 158.145; avian reproduction study with bobwhite quail by February 1988.
- b. Section 158.145; aquatic invertebrate life-cycle study with Daphnia by May 1987.

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

3. You will submit production information (pounds or gallons produced) for this product for the fiscal year in which the use on pecans is conditionally registered, in accordance with FIFRA sec. 29. The fiscal year begins October 1 and ends September 30. The production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

CONCURRENCES :

EMBOLO							
ORNAME							
TE							

This information should be submitted to:

Registration Support and Emergency Response Branch  
Registration Division (TS-767)  
Environmental Protection Agency  
Washington, D.C. 20460

4. You will submit five (5) copies of your final printed labeling before you release the product for shipment.

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 constitutes acceptance of these conditions.

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

Sincerely,



Henry M. Jacoby  
Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (TS-767)

bcool:HMJacobey:02/13/86:rm233:557-1900:TS-767

ACCEPTED  
with COMMENTS  
to EPA Letter Dated:

FEB 18 1986

(Revised 11/12/85)

ELANCO ID 5700  
RUBIGAN® E.C. Fungicide  
Net Contents 1 Quart

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
1471-146

A locally systemic fungicide for the control of ~~scab and powdery mildew of pecan.~~

Active Ingredient:  
fenarimol:  $\alpha$ -(2-chlorophenyl)- $\alpha$ -(4-chlorophenyl)-5-  
pyrimidinemethanol .....12.5%  
Inert Ingredients:.....87.5%

Contains 1 pound active ingredient per gallon.  
RUBIGAN® - the registered trademark for Elanco Products fenarimol

Keep Out of Reach of Children

WARNING AVISO

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Causes eye and skin irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Use eye protection (e.g. face shield or goggles) when loading and mixing. Wear impermeable gloves (i.e. butyl rubber) when loading, mixing and applying.

STATEMENTS OF PRACTICAL TREATMENT:

- If in eyes: Immediately flush with plenty of water and get medical attention.
- If swallowed: Call a physician or Poison Control Center. Do not induce vomiting. Contains petroleum distillate.
- If on skin: Immediately wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

If inhaled: If discomfort occurs, move to fresh air. Get medical attention if breathing difficulty occurs.

Do not graze cover crops or cut for silage or hay.

Environmental Hazards

This product is toxic to fish. Do not apply directly to water or wetlands. Do not apply when weather conditions favor runoff or drift from the target area. Do not contaminate water by cleaning of equipment or disposal of waste.

STORAGE AND DISPOSAL

See storage and disposal statement under Directions for Use.

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DIRECTIONS FOR USE

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See literature on container for complete Directions for Use. Read all directions carefully before applying.

EPA Registration No. 1471-146, E.P.A. EST. 1183-NB-1  
Lot ( ) FN 5110

Elanco Products Company  
A Division of Eli Lilly and Company  
Indianapolis, IN 46285, U.S.A.

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(Revised 11/12/85)

RUBIGAN® E.C. ID 5700 (FN 5110)

A locally systemic fungicide for the control of scab and powdery mildew of pecan.

TABLE OF CONTENTS

- Precautionary Statements
- Storage and Disposal Directions
- Directions for Use
- Note to the User
- Diseases Controlled
- Precaution
- Maximum Rate Per Season
- Mixing Directions

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

- Pecans -
  - Usage Rates
  - Application Schedule
  - Preharvest Interval

RUBIGAN® - fenarimol, Elanco Products Company

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING

AVISO

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

Causes eye and skin irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Use eye protection (e.g. face shield or goggles) when loading and mixing. Wear impermeable gloves (i.e. butyl rubber) when loading, mixing and applying.

STATEMENTS OF PRACTICAL TREATMENT:

If in eyes: Immediately flush with plenty of water and get medical attention.

If swallowed: Call a physician or Poison Control Center. Do not induce vomiting. Contains petroleum distillate.

If on skin: Immediately wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

If inhaled: If discomfort occurs, move to fresh air. Get medical attention if breathing difficulty occurs.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Environmental Hazards

This product is toxic to fish. Do not apply directly to water or wetlands. Do not apply when weather conditions favor runoff or drift from the target area. Do not contaminate water by cleaning of equipment or disposal of waste.

STORAGE AND DISPOSAL DIRECTIONS

STORAGE: Avoid freezing. Do not use or store near heat or open flame. Store in original container only. In case of leak or spill, use absorbant materials to contain liquids and dispose as 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 by other procedures approved by state and local authorities.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

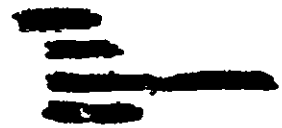
Do not enter treated areas without protective clothing until sprays have dried.

NOTE TO THE USER

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information: WARNING. Area treated with Rubigan on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of eye contact, immediately flush with a plenty of water and get medical attention. In case of skin contact, immediately wash with plenty of soap and water. Get medical attention if irritation occurs and persists. If inhaled and discomfort occurs, move to fresh air. Get medical attention if breathing difficulty occurs.

DISEASES CONTROLLED



Pecan  
Scab  
Powdery mildew

PRECAUTION: Do not graze cover crops or cut for silage or hay.

MAXIMUM RATE PER SEASON

Do not apply more than 84 fluid ounces of Rubigan E.C. per acre per season.

MIXING DIRECTIONS

Add Rubigan E.C. 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, wetttable powders or flowables should be added first to a half-full spray tank and then add the required amount of Rubigan E.C. Continually agitate during the completion of filling and spraying operations.

PECANS

USAGE RATES

Do not apply less than 9 fluid ounces or more than 12 fluid ounces of Rubigan E.C. per acre.

Use the higher range of the Rubigan E.C. rates during conditions suitable for heavy disease infection (i.e., for scab, several hours of leaf wetting at temperatures above 50°F).

Spray Volume Per Acre

Dilute Spray: Apply Rubigan E.C. at the rate of 3 to 4 fluid ounces per 100 gallons of water in a uniform spray applied to the point of run-off with conventional ground spray equipment.

Concentrate Spray: The amount of Rubigan E.C. applied per acre in concentrated sprays is the same as that which would be applied per acre in a dilute spray.

Note: In order to apply the correct amount of Rubigan E.C. to your orchard, you must know the number of gallons of water needed to spray one acre of your trees to the point of run-off. If you do not already know this gallonage, you should conduct a test to determine it. If you do not know how to conduct such a test with your equipment, you should ask for assistance from your equipment dealer.

222\*\*\*/EC\*\*12/LABELS/US/F5110/65



APPLICATION SCHEDULE

For the control of scab and powdery mildew, apply Rubigan starting at bud break. Applications should continue up to and including the point where nuts are up to one-half inch (1/2") in length. The Rubigan 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.

Rubigan applications should be made on a 7 to 10 day schedule for those varieties considered to be susceptible to scab. For those varieties considered to be resistant to scab, Rubigan applications should be made on a 14 to 21 day schedule.

Do not use Rubigan on the Wichita variety.

PREHARVEST INTERVAL

Do not apply Rubigan within 30 days of harvest.

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DISCLAIMER OF WARRANTIES

The manufacturer makes no warranties concerning this product or its use, which extend beyond the description on the label. All other warranties, expressed or implied, including but not limited to, any implied warranties of merchantability and fitness for a particular purpose, are disclaimed. All statements concerning this product apply only when used as directed.

LIMITATION OF DAMAGES

Elanco's liability, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the return of the amount of the purchase price of the Rubigan and under no circumstances shall Elanco be liable for special, indirect or consequential damages.

RUBIGAN® - fenarimol, Elanco Products Company

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Elanco Products Company  
A Division of Eli Lilly and Company  
Indianapolis, Indiana 46285, U.S.A.

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<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> <b>OFFICE OF PESTICIDES PROGRAMS</b> <b>REGISTRATION DIVISION (WH-567)</b> <b>WASHINGTON, D.C. 20460</b>	EPA REGISTRATION NO. 126-17	DATE OF ISSUANCE November 13, 1984
	TERM OF ISSUANCE Perpetual	
	NAME OF PESTICIDE PRODUCT	

**NOTICE OF PESTICIDE:**  REGISTRATION  
 REREGISTRATION  
 (Under the Federal Insecticide, Fungicide,  
 and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

<input type="checkbox"/>	<u>126</u> <u>17</u>	<u>124732</u> <u>1</u>
<input type="checkbox"/>	<u>126</u> <u>17</u>	<u>126962</u> <u>1</u>

**NOTE:** Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

1. Add the phrase "EPA Registration No. 126-17" to your label before you release the product for shipment.
2. Under "Directions to Buyer" or "Directions to User" add the following: "This product may be hazardous to your health. This product contains chemicals known to cause cancer in laboratory animals. See 'Directions for Use' for protective clothing and additional precautions."
3. Under "Application directions", the sections titled "Low Mixtures" and "Precaution" apply only to roses. They should be incorporated under the general title "Roses". Also "Precaution" must be changed to "Not to Use".
4. Under "Field Grown Ornamentals", the following comments apply:
  - a.) If a wetting agent would normally be needed this should be stated on the label;
  - b.) The concentrations stated on the label must be based on the amount of product, not the active ingredient, and should indicate the basis (i.e. w/v or v/v); and
  - c.) The label should provide some general guidance when to use the high and low dosage rates and the spray intervals.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL: *Henry M. Jacoby* DATE: 11/13/84

Page 2  
Fenarimol

5. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

Sincerely,



Henry M. Jacoby  
Product Manager 21  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

HMJ:huj:FHB:RD:CM#2:Rm227:557-1900:11/13/84



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Environmental Hazards:

This pesticide is toxic to fish. Do not apply directly to water or wetlands. Do not apply when weather conditions favor runoff or drift from the target area. Do not contaminate water by cleaning of equipment or disposal of waste.

STORAGE AND DISPOSAL:

See storage and disposal statement under Use Directions.

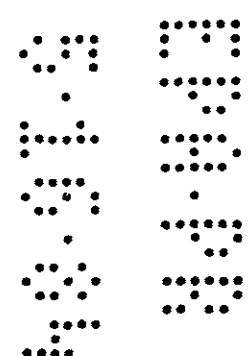
Directions for Use

See literature on container for complete Directions for Use. Read All Directions Carefully Before Applying.

EPA Registration No. 1471-RUA  
Lot ( ) FN 5110

EPA Est. 1183-NB-1

Elanco Products Company  
A Division of Eli Lilly and Company  
Indianapolis, IN 46285, U.S.A.

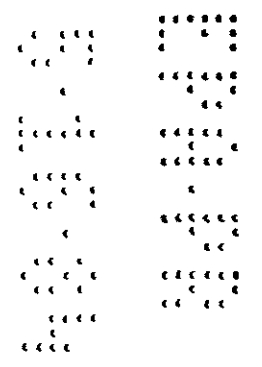


RUBIGAN® E.C. ID 5959

A locally systemic fungicide for the prevention or therapeutic control of powdery mildew in commercially grown, field or greenhouse roses and field grown ornamentals.

TABLE OF CONTENTS

- Directions for Use
- Note to the User
- General Directions
- Application Directions
- Tank Mixtures
- Usage Rates and Intervals for Roses
- Precaution
- Usage Rates and Intervals for Ornamentals
- Precautionary Statements
- Storage and Disposal Directions



DIRECTIONS FOR USE  
Read All Directions Carefully Before Applying

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not enter treated areas without protective clothing until sprays have dried.

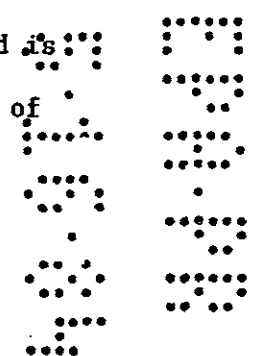
NOTE TO USER

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information: WARNING. Area treated with RUBIGAN® on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of eye contact, immediately flush eyes with plenty of water and get medical attention. In case of skin contact, immediately flush skin with plenty of water. If irritation develops and persists, get medical attention.

GENERAL DIRECTIONS

RUBIGAN E.C. is a locally systemic fungicide for the prevention or therapeutic control of powdery mildew on roses and field grown ornamentals. RUBIGAN E.C. is absorbed into the plant foliage and is not easily washed off by rain or overhead irrigation. Used as directed RUBIGAN E.C. will not harm the foliage or floral tissue of roses.



APPLICATION DIRECTIONS

RUBIGAN E.C. 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 E.C. 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 with powdery mildew. Applications of RUBIGAN E.C. should begin at the earliest appearance of signs or symptoms of powdery mildew.

TANK MIXTURES

In areas where blackspot occurs, RUBIGAN E.C. 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 for RUBIGAN E.C. from the table below.

Recommended usage rates and spray intervals of RUBIGAN E.C.

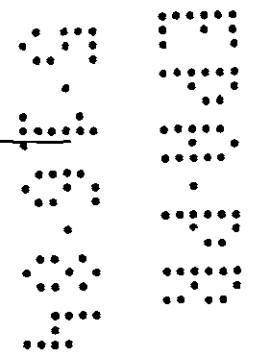
GREENHOUSE ROSES

Disease Severity*	Rate-Fluid Oz/100 Gal	Concentration (PPM)	Spray Interval (Days)
Low	3-5	28-47	10-14
Medium	4-6	37-56	10-12
High	6-8	56-75	7-10

FIELD GROWN ROSES

Type Application	Disease Severity*	Rate-Fluid Oz/100 Gal	Concentration (PPM)	Spray Interval (Days)
Ground	Low	4-5	37-47	10-14
	Medium	6-8	56-75	10-14
	High	8-12	75-112	7-10

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





## PRECAUTION

Applications of RUBIGAN E.C. 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.

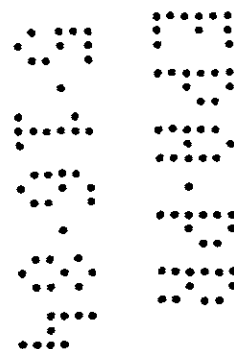
FIELD GROWN ORNAMENTALS:  
Recommended Usage Rates and Intervals

AJUGA, BEGONIA, CALENDULA, CHRYSANTHEMUM, DAHLIA, DELPHINIUM,  
HYDRANGEA, PHLOX, VERBENA, ZINNIA

<u>Type Application</u>	<u>Rate-Fluid Oz/100 Gal</u>	<u>Concentration (PPM)</u>	<u>Spray Interval (Days)</u>
Ground	3-5	28-47	10-14

CREPE MYRTLE, EUONYMUS, PHOTINIA

<u>Type Application</u>	<u>Rate-Fluid Oz/100 Gal</u>	<u>Concentration (PPM)</u>	<u>Spray Interval (Days)</u>
Ground	6-10	56-94	10-14



PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING

AVISO

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

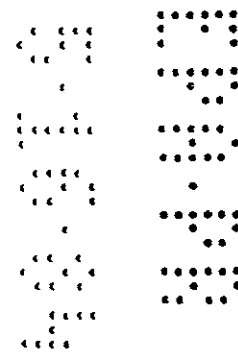
Causes eye and skin irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wear impermeable gloves (i.e. butyl rubber) during mixing, loading and spraying of this product.

First Aid: In case of eye contact, immediately flush eyes with plenty of water and get medical attention. In case of skin contact, immediately flush skin with plenty of water. If irritation develops and persists, get medical attention.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water or wetlands. Do not apply when weather conditions favor runoff or drift from the target area. Do not contaminate water by cleaning of equipment or disposal of waste.



STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.  
Do not store near heat or open flame.

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 by other procedures approved by state and local authorities.

The manufacturer makes no warranties, expressed or implied, concerning this product or its use, which extend beyond the description on the label. All statements made concerning this product apply only when used as directed.

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A Division of Eli Lilly and Company  
Indianapolis, IN 46285, U.S.A.

SDC:dm  
Revised 05/15/84

