UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

FFB 18 1986

Attention: Richard F. Bing

Gentlemen:

Rubigan E.C. Subject:

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.
 - Pederal Register Vol. 49. No. 207, pp. 42856-42905, October 24, 1984.
 - a. Section 158.145; avian reproduction study with bobwhite quail by Pebruary 1988.
 - Section 158.145; aquatic invertebrate lifecycle 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.

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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 PIFRA 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 Hanager (21)

Fungicide-Herbicide Branch Registration Division (TS-767)

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

ACCEPTED with COMMENTS in EPA Letter Dated:

FEB 18 1986

(Revised 11/12/85)

ELANCO

ID 5700

Under the Federal Insectiona, Fungicide, and Redenticide Act as amended, for the posticide registered under EPA Reg. No.

1471-146

RUBIGAN® E.C. Fungicide

Net Contents 1 Quart

A locally systemic fungicide for the control

Active Ingredient:

fenarimol: α-(2-chlorophenyl)-α-(4-chlorophenyl)-5-

pyrimidinemethanol12.5%

Inert Ingredients:.....87.5%

Contains 1 pound active ingredient per gallon.

RUBIGANO - 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. Bo 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:

7.

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.

222****/EC**12/LABELS/US/F5110/57

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.

DIRECTIONS FOR USE

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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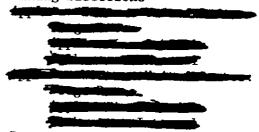
(Revised 11/12/85)

RUBIGAN® E.C. ID 5700 (FN 5110)

A locally systemic fungicide for the control of systemic funcions o

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RUBIGAN® - fenarimol, Elanco Products Company

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.

222****/EC**12/LABELS/US/F5110/60

STORACE 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.

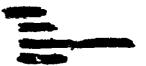
Do not enter treated areas without protective clothing until sprays have dried.

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, wettable 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 attemperatures 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.

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.

RUBIGANO - fenarimol, Elanco Products Company

Copyright @ - Elanco Products Company - 1985

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

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

ACCEPTED with COMITENTS in EPA Letter Dated:

ELANCO ID 5959

NOV 13 1984

RUBIGAN® E.C.

Net Contents 1 Pint Ornamental Fungicide Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Res. No.

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

Active Ingredient:

fenarimol:	α-(2-ch	Fo:	rot	phe	eny	/L)-(Y - 1	(4-	-ct	110	r	pt	ıeı	ıyJ	L)·	-5-	•		
pyrimidinem	ethanol.	•		•	•	•	•	•	•		•			•	•			•	•	12.5%

Contains 1 pound active ingredient per gallon.

RUBIGAN - the 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. 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.

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:

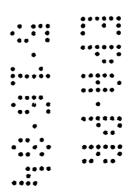
See storage and disposal statement under Use Directions.

Directions for Use

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

EPA	Registration	No. 1	1471-RUA		EPA	Est.	1183-NB-1
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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.

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

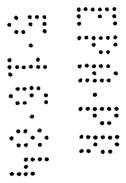
PRECAUTION

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

Type Application	Rate-Fluid Oz/100 Gal	Concentration (PPM)	Spray Interval (Days)
Ground	3~5	28-47	10-14
CREPE MYRTLE,	EUONYMUS, PHOT	INIA	
Type Application	Rate-Fluid Oz/100 Gal	Concentration (PPM)	Spray Interval (Days)
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.

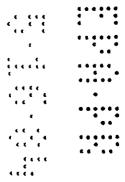
Causes eye and skin irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wear impermeable gloves (i.e. butyl rubber) during mixing, loading and spraying of this product.

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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