

MAY 10 1996

Carol Patterson
Griffin Corporation
P.O. Box 1847
Valdosta, GA 31603

Dear Ms. Patterson:

Subject: Homeowner Labeling
Copper Fungicide 4E
EPA Registration No. 1812-377
Your Submission Dated April 9, 1996

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- The term "Homeowner" appears to be part of the brand name for this product. Either assure that this term is not deleted from any labeling with distributor or additional brand names or add one of the following statements to the General Instructions:

a) "For control of disease in home greenhouses, gardens or garden plant beds", or

b) "Not for use on crops grown for sale or other commercial use, or for commercial seed production, or for research purposes".

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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

Sincerely yours,

(S)

Cynthia Giles-Parker
Product Manager (22)
Fungicide Herbicide Branch
Registration Division (7505C)

Enclosure

3/90

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAY 10 1995

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

1812-377

**COPPER FUNGICIDE 4E
HOMEOWNER
EMULSIFIABLE LIQUID COPPER
FUNGICIDE**

ACTIVE INGREDIENTS:

Copper salts of fatty and rosin acids..... 48.0%

INERT INGREDIENTS 52.0%

TOTAL 100.0%

(Metallic copper equivalent 4.0%)

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Call a physician immediately.

IF IN EYES: Wash eyes with water and see a physician.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation persists.

See side/back for additional Precautionary Statements.

GRIFFIN CORPORATION
VALDOSTA, GA 31601

EPA REG. NO. 1812-377
EPA EST. NO. 8901-TX-1

NET CONTENTS: _____ QTS.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
CAUTION**

Harmful if swallowed. Contains a petroleum solvent.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE safety equipment. If no such instructions for washables, use detergent and hot water. Keep and wash PPE contaminated clothing 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.

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. Do not contaminate water when disposing of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not store near heat or open flames.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

RE-ENTRY STATEMENT

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

STORAGE AND DISPOSAL

STORAGE: Store in a secure place, away from fire or open flame. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Keep container closed and reseal after use. Product is not damaged by freezing, but preferably store at temperatures above 32° F. If spilled, use absorbent materials and dispose of in approved landfill.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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, or plastic containers by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INSTRUCTIONS

Do not apply this product through any type of irrigation system.

Read and follow all applicable directions and precautions on this label or label of other products before mixing with Copper Fungicide 4E.

Copper Fungicide 4E can be applied up to day of harvest. When tank-mixed with other products, do not apply closer to harvest than is permitted or stated on their labels.

Pour Copper Fungicide 4E into spray tank at least 1/2 filled with water with adequate agitation. When mixed with other products proven or known to be compatible, wettable powders should be added first, followed in order by flowables, and then emulsifiable concentrates such as Copper Fungicide 4E.

Copper Fungicide 4E is compatible with many organic insecticides and fungicides in tank mixes. Do not mix Copper Fungicide 4E with oil when applied to citrus. Do not mix Copper Fungicide

4E with chelated or liquid fertilizers. Use product with other fungicides and insecticides with caution. Observe all cautions and limitations on all products used in mixtures.

2 tsp*/gal = 1 qt./100 gals.

*tsp = teaspoon

FRUITS AND NUTS

Crop	Disease	Rate / 1 gal. water	Use Instructions
Avocado	Anthrachnose, Blotch (Cercospora leafspot)	4tsp.	Apply when bloom buds begin to swell. Repeat monthly until September.
Berries (Blackberries, Spots, Yellow Rust Botsenberries, Loganberries, Raspberries)	Anthrachnose, Leaf and Cane	4-6 tsp.	Apply when leaf buds begin to open. Repeat when flower buds show white and continue at 10-14 intervals until harvest. Also make a post-harvest spray after pruning but before fall rains using 8 Tbsp. / gal.
Cherries (Sour)	Bacterial Canker (<i>Psuedomonas syringae</i>), Leaf Spot	3 tsp.	Apply in spring as buds begin to swell. Repeat at bud burst and weekly thereafter as needed for up to 6 sprays. In fall apply a spray at both 10 and 80% leaf fall. CAUTION: Sprays after leaf emergence may cause some leaf defoliation.
	Brown Rot Blossom Blight	3 Tbsp.	Apply at popcorn bud, full bloom and at petal fall. During wet weather additional bloom sprays may be necessary.
Citrus	Melanose, Red Algae	4 tsp. (2 qts./ 100 gal.)	Apply 1-3 weeks after petal fall and repeat 4 weeks later. Do not apply with any oil on any citrus as some defoliation may occur.
Grapes	Downy Mildew, Powdery Mildew, Black Rot (suppression)	2 tsp. (1 qt./ 100 gal.)	Begin spray when new growth is 1/2 inch long. Repeat every 7-10 days throughout growing season. NOTE: Do not mix with lime. Certain varieties and hybrids may be slightly sensitive to copper sprays resulting in marginal leaf burn.
Mangoes	Anthrachnose	6 tsp.	Apply weekly beginning when

panicles are 2 inches long until fruit are set. Repeat monthly through September.

Peaches Nectarines	Leaf Curl, Shot Hole, Blossom Brown Rot	7-10 tsp. (3 1/2-5 qts./ 100 gal.)	Apply at leaf fall and repeat in late dormant up to bud swell and at pink bud. Do not apply after pink bud.
Strawberries	Leaf Spot, Scorch	3 - 4 tsp.	Apply beginning when new growth starts and repeat at 7-10 day intervals until harvest.
Walnuts	Bacterial Blight	4 tsp.	Apply beginning when leaflets start to unfold and before 1% pistillate blooms. Repeat weekly as needed, especially during rainy periods.

VEGETABLES

Beans (Green, Snap, Dry Colored, and Navy)	Bacterial Blight	4 tsp.	Apply beginning at trifoliolate and continue at 7-10 day intervals to Dry harvest. Use 7 day intervals during wet weather.
Beets (Red Table)	Cercospora Leaf Spot	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed up to day of harvest.
Broccoli, Brussels Sprout, Cauliflower, Cabbage	Downy Mildew, Alternaria Blight	1 tsp.	Apply beginning when disease is expected and repeat at 7-10 day intervals as needed. CAUTION: A slight reddening of older leaves may occur, especially in late fall. Do not add spreader - stickers to spray. Do not spray when plants are under environmentally stressful conditions.
Carrots	Early Blight, Late Blight, Leaf Spot	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed up to day of harvest.
Celery	Early Blight, Bacterial Blight	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed up to day of harvest.
Cucurbits, Cucumbers, Cantaloupe, Muskmelon, Squash,	Downy Mildew, Powdery Mildew, Alternaria Blight, Scab	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed up to day of harvest.

Pumpkins, and Watermelons)

Cucumbers*	Angular Leaf Spot	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed up to day of harvest.
Onions	Downy Mildew, Gray Mold Neck Rot, Bacterial Soft Rot	4-6 tsp.	Apply at first sign of disease. Repeat conditions favor disease and repeat every 7 days up to harvest.
Peas	Powdery Mildew, Bacterial Blight	4-6 tsp.	Apply at first sign of disease. Repeat conditions favor disease and repeat every 7 days up to harvest.
Peppers*	Bacterial Spot, Cercospora Leaf Spot	4-6 tsp.	Apply at first sign of disease. Repeat conditions favor disease and repeat every 7 days up to harvest.
Potatoes	Late Blight	7 tsp.	Apply beginning when weather conditions favor disease and repeat every 7 days up to harvest.
	Early Blight	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed up to day of harvest.
Tomatoes*	Bacterial Spot, Bacterial Speck, Early Blight, Septoria Leaf Spot, Anthracnose	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed up to day of harvest.

* For control of disease on these crops in home greenhouses, fields, gardens and garden plant beds.

MISCELLANEOUS

Peanuts	Leaf Spot and Web Blotch	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed up to day of harvest.
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ORNAMENTALS

For control of diseases on ornamentals in home greenhouses, fields, gardens, nurseries, or garden plant beds.

Azaleas*	Cercospora Leafspot, Botrytis Blight, Leaf Gall, Phytophthora Dieback, Powdery Mildew	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.
Begonias	Xanthomonas Leaf Spot, Anthracnose, Powdery	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use

	Mildew		higher rates or shorter intervals when disease pressure is high.
Camellias	Phytophthora Dieback	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.
Chrysanthemum Gardenia, Philodendron*	Bacterial Blight	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.
Cotoneaster	Botrytis Blight	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.
Hydrangeas	Leafspots, Powdery Mildew	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.
Ixora, Magnolias, Palms	Leafspots	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.
Iris*	Scab	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.
Ivy	Bacterial Leafspot, Xanthomonas Leafspot	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.
Pachysandra	Volutella Blight	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.
Pyracantha	Fire Blight, Scab	4-6 tsp.	Begin spray during bloom period. Repeat at 3-4 day intervals. After bloom period continue at 7-10 day intervals.
Roses*	Powdery Mildew Black Spot (suppression)	4-6 tsp.	Apply at first sign of disease. Repeat at 7-10 day intervals as needed. Use higher rates or shorter intervals when disease pressure is high.

* Discoloration of blooms may occur on certain varieties or colors of these plants. To avoid

problem, do not spray just before or during flower period.

TREES

Pine (Austrian, Ponderosa, Mugo, Scot)	Dothistroma Needle Blight	4 tsp.(2 qts/ 100 gal.)	Apply to run-off beginning as new needles emerge from needle sheaths. Repeat 3-4 weeks later.
	Diplodia Tip Blight	4 tsp.(2 qts/ 100 gal.)	Make first application when shoot buds open. Repeat weekly until needles break through needle sheaths.
Juniper	Cercospora Needle Blight	4 tsp.(2 qts/ 100 gal.)	Make first application as new growth begins. Repeat monthly making at least 2-3 sprays.
Maple, Oak, Sycamore	Anthracnose, Leafspots	4 tsp.(2 qts/ 100 gal.)	Make first application just before bud swell. Repeat at 7 day intervals as needed. Make at least 3 sprays.
Cedar	Cedar Apple Rust	4 tsp.(2 qts/ 100 gal.)	Apply weekly in July and August.

WARRANTY STATEMENT

GRIFFIN warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of GRIFFIN. In no case shall GRIFFIN be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at Griffin Corporation's election, the replacement of this product. **GRIFFIN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**