



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
5887-163

Date of Issuance:
JUN 15 1995

NOTICE OF PESTICIDE:
 X Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
Black Leaf Liquid
Copper Fungicide

Name and Address of Registrant (include ZIP Code):

Wilbur-Ellis Company
P.O. Box 9518
Fresno, CA 93792

Notes: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. 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; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes listed below before you release the product for shipment:

- a. Add the phrase, "EPA Reg. No. 5887-163".
- b. Correct the spelling of AVOCADOS.

Signature of Approving Official:

J. L. [Signature]

Date:

JUN 15 1995

EPA Form 8570-6

BEST COPY AVAILABLE

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3. Submit one (1) copy 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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

James M. Stone
Acting Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

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BLACK LEAF

Liquid Copper Fungicide

For citrus and vegetables listed

For use on roses, grapes, pine and sycamore trees, beans, celery, and other listed vegetables.

ACTIVE INGREDIENT:

Copper salts of fatty and rosin acids..... 48%

INERT INGREDIENTS..... 52%

(Metallic copper equivalent 4.0%)

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See back panel for additional precautionary statements.

EPA REG. NO. 5887-RAG

EPA EST. NO. 70-KY-1

Net Contents 16 fl. oz. (1 pint)

**ACCEPTED
with COMMENTS
in EPA Letter Dated:**

JUN 15 1995

For the Federal Insecticide
and Rodenticide Act
and for the purpose
of EPA Reg. No.
5887-143

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 area without protective clothing until sprays have dried. Protective clothing includes coveralls, waterproof gloves, shoes plus socks, and protective eyewear.

Read and follow all applicable directions and precautions on this label. For use only on home gardens. Liquid Copper Fungicide can be applied up to day of harvest. Consult State Agricultural Experiment Stations or State Agricultural Extension Service for additional information as the timing needs may vary with local conditions.

MIXING DIRECTIONS: Mix the recommended amount of this product in one gallon of water. Spray to upper and lower leaf surfaces only to point of run-off.

USE DIRECTIONS

FRUITS AND NUTS

AVACADOS: Anthracnose, Blotch (*Cercospora leafspot*) - Apply 4 tsp/gal. when bloom buds begin to swell. Repeat monthly until September.

BERRIES (BLACKBERRIES, BOYSENBERRIES, LOGANBERRIES, RASPBERRIES): Anthracnose, Leaf and Cane Spots, and Yellow Rust - Apply 4 to 6 tsp/gal. when leaf buds begin to open. Repeat when flower buds show white and continue at 10 to 14 days until harvest. Also make a post-harvest spray after pruning but before fall rains using 8 tablespoons/gallon.

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CHERRIES (SOUR): Bacterial Canker (*Pseudomonas syringae*) and Leaf Spot - Apply 3 tsp/gal. 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. **For Brown Rot Blossom Blight** - Apply 3 tablespoons/gal. at popcorn bud, full bloom and petal fall, During wet weather, additional bloom sprays may be necessary.

CITRUS: Melanose, Red Algae - Apply 4 tsp / gal. Apply 1 to 3 weeks after petal fall and repeat four weeks later. Do not apply with any oil on any citrus as some defoliation may occur. Citrus includes grapefruit, oranges, lemons, tangerines, and similar members of the citrus group.

GRAPES: Downy and Powdery Mildew - Apply 2 tsp / gal. Begin spray when new growth is 1/2 inch long and repeat every 7 to 10 days throughout growing season. Also suppresses and aids in control of black rot. Note: Do not mix with lime. Certain varieties and hybrids may be slightly sensitive to copper sprays resulting in marginal leaf burn.

MANGOES: Anthracnose - Apply 6 tsp/gal. weekly beginning when panicles are two inches long until fruit are set; then continue monthly through September.

PEACHES, NECTARINES: Leaf Curl, Short Hole, Blossom Brown Rot - Apply 7 to 10 tsp/gal. 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 - Apply 3 to 4 tsp/gal. beginning when new growth starts and repeat at 7 to 10 days until harvest.

WALNUTS: Bacterial Blight - Apply 4 tsp / gal. beginning when leaflets start to unfold and before 1% pistillate blooms. Repeat weekly as needed, especially during wet rainy periods.

VEGETABLES

BEANS (GREEN, SNAP, AND DRY COLORED, AND NAVY BEANS): - Bacterial blights - Apply 4 tsp / gal. beginning at trifoliolate and continue at 7 to 10 day intervals to harvest. During wet weather use 7 day intervals.

BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER, CABBAGE: Downy Mildew and Alternaria Blight - Use 1 tsp / gal. Begin application when disease is expected and repeat at 7 day intervals as needed. **CAUTION:** A slight reddening of the older leaves may occur occasionally, especially in late fall. Do not add additional spreader-sticker to spray. Do not spray when plants are under environmental stress conditions.

POTATOES: Late Blight - Apply 7 tsp / gal. beginning treatment when weather conditions favor late blight and repeat every 7 days up to day of harvest.

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ADDITIONAL VEGETABLE USES

For the following crops apply 4 to 6 tsp / gal. beginning when disease is expected or first symptoms appear. Repeat at 7 to 10 day intervals as needed or up to day of harvest. Use shorter intervals and higher rates in wet weather periods.

	<u>Disease</u>
Beets (Red Table)	Cercospora Leaf Spot
Carrots	Early and Late Blights, Leafspots
Celery	Bacterial Blight, Early Blight
Cucurbits (Cucumbers, Cantaloupe, Muskmelon, Squash, Pumpkins, and watermelons)	Downy Mildew, Powdery Mildew, Alternaria Blight, Scab
Cucumbers*	Angular Leaf Spot
Onions	Downy Mildew, Gray Mold Neck Rot, Bacterial Soft Rot
Peppers*	Bacterial Spot, Cercospora Leaf Spot
Peanuts	Leafspots (early and late) and Web Blotch
Peas	Powdery Mildew, Bacterial Blight
Potatoes	Early Blight
Tomatoes*	Bacterial Spot and Speck, Early Blight, Septoria Leafspots, Anthracnose - Where Early Blight or Anthracnose is expected to be heavy, make a tank mix with approved organic fungicides used at labeled rates

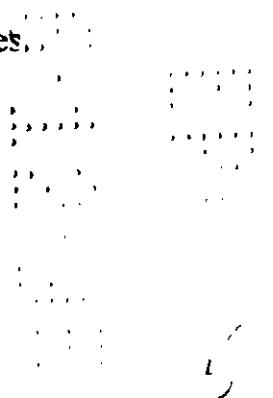


* For control of disease on these crops in gardens or plant beds.

ORNAMENTALS

For control of disease on ornamentals in gardens or plant beds.

For the following, apply 4 to 6 tsp / gal. beginning when disease is expected or first symptoms appear. Repeat every 7 to 10 days as needed to control disease. Use higher rates and shorter intervals during periods of frequent rain or when several disease conditions are present.



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Disease Controlled

Azaleas*

Cercospora Leafspot, Botrytis Blight, Leaf Fall, Phytophthora Dieback, and Powdery Mildew

Begonia

Xanthomonas Leaf Spot, Anthracnose, Powdery Mildew

Camellia

Phytophthora Dieback

Chrysanthemums, Gardenia, and Foliage Plants including Philodendron*

Bacterial Blight

Cotoneaster

Botrytis Blight

Hydrangeas

Leafspots, Powdery Mildew

Ixora, Magnolias, and Palm Trees

Leafspots

Iris*

Scab

Ivy

Bacterial Leafspot, Xanthomonas Leafspot

Pachysandra

Volutella Blight

Pyracantha

Fire Blight and Scab - Begin spray during bloom period and repeat at 3 to 4 day intervals. After bloom period continue on 7 to 10 day schedule.

Roses*

Powdery Mildew - Suppresses and aids in control of black spot.

* Discoloration of blooms may occur on certain varieties or colors of these plants. To avoid problem, do not spray just before or during flowering period.

PINE (Austrian, Ponderosa, Mugo, Scot): Dothistroma Needle Blight and Diplodia Tip Blight - Mix 4 teaspoons per gallon of water and apply to point of spray run-off thoroughly wetting needles. For Dothistroma, make first application as new needles begin to emerge from needle sheaths (about mid May in eastern Nebraska) and repeat 3 to 4 weeks later. For Christmas trees or in continued wet seasons, repeat monthly through September. For Diplodia Tip Blight, make first application when shoot buds open (about third week in April in eastern Nebraska) and repeat at weekly intervals until needles break through needle sheaths.

JUNIPERS: Cercospora Needle Blight - Mix 4 tsp/gal. water. Make first spray as new growth begins and repeat monthly making at least 2 or 3 sprays or through September if frequent rains occur.

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MAPLES, OAKS AND SYCAMORE: Anthracnose, Leafspots - Mix 4 tsp/gal. and make first application just before buds begin to swell and repeat at 7 day intervals as needed. Make at least 3 sprays.

CEDAR: Cedar Apple Rust - Apply 4 tsp/gal weekly in July and August

STORAGE AND DISPOSAL

Storage: Store in a secure place, always from fire or open flame. Do not contaminate water, food, or feed by storage or disposal. 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 trash.

Pesticide Disposal: Securely wrap original container in several layers of newspaper and discard in trash.

Container Disposal: Do not reuse empty container. Wrap container and put in trash.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Contains a petroleum solvent.

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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water. Do not contaminate water by disposal of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flames.

NOTICE TO BUYER: Buyer assumes all risks of use, storage, or handling of this product not in strict accordance with directions given herewith.

DISTRIBUTED BY
Black Leaf Products
A Division of Wilbur-Ellis Company
BUCKNER, KENTUCKY 40010

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