

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION, JS 267
WASHINGTON, DC 20460

EPA REGISTRATION NO. _____
DATE OF REGISTRATION _____
EPA REGISTRATION NO. _____

JAN 05 1989

NOTICE OF PESTICIDE

Under the Federal Insecticide, Fungicide, and Rodenticide Act

NAME AND ADDRESS OF THE REGISTRANT (SEE REGISTRATION NO. _____)

NOTE: Changes in labeling, packaging, or other information that does not conform with the registration information submitted, and accepted by the EPA, must be reported to the EPA. Do not use a pesticide product unless the product always refers to the actual EPA registration number.

On the basis of information furnished by the registrant, the following pesticide is hereby Registered Under the Federal Insecticide, Fungicide, and Rodenticide Act:

A copy of the label and registration information for this pesticide is being returned herewith.

Registration is made subject to the condition that the registrant shall comply with the Act, the Agency's policies to protect health and the environment, the Act's labeling requirements, and all other applicable laws, regulations, and orders made in accordance with the Act. The registrant is prohibited from using the registration of a product under the Act to sell, distribute, or otherwise use the product in a manner that is not in accordance with the registration of the product by others.

1. The registrant shall comply with the following conditions:

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2. Make the following changes to the label for release of the product for shipment:

- Add the phrase "EPA Registration No. 2901-73."
- Insert the above address and registration information at the address of the label.
- Revise the statement of hazard to read: "Hazard to man: Irritant to eyes."
- Revise the statement of hazard to read: "Hazard to man: Irritant to eyes."
- Revise the statement of hazard to read: "Hazard to man: Irritant to eyes."

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

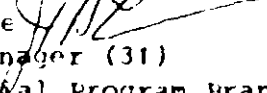
DATE

- i. Revise the virus "Herpes simplex Types 1 and II" to read "Herpes simplex Type 1 and Type 2."
- q. Revise Item #4 (lower right panel) to read "150 ppm." Note: 1 oz per 4 gallons does not equal 200 ppm.
- h. Delete the word "milk" (center panel).
- i. Delete the statement "Measures against circulatory shock, respiratory depression and convulsion may be needed."
- j. Numerous sections of the label are blurry; therefore, check the text carefully before you print final labels.

3. 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.

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.

John H. Lee 
Product Manager (31)
Antimicrobial Program Branch
Registration Division (TS-767C)

Enclosures

NOTE: Copy of label accepted for registration must be submitted to the Registrar, Environmental Protection Agency, Office of the Label Manager, c/o 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 does not constitute an endorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator's jurisdiction may at any time suspend or cancel the registration of a pesticide registered with the Act. The acceptance of any name in connection with the registration of a product under this Act does not constitute a grant of the registrant a right to exclusive use of the name or to its use if it has been covered by others.

1. The label for this product must be printed in accordance with the following instructions:

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3. The label for this product must be printed in accordance with the following instructions:

a. Change the registration number to "46923-5."

b. Change the active ingredient declaration to 47.0% basic copper sulfate. Adjust your figures to account for the purity of the source material.

c. Under the heading "USE", delete the sentence "Pesticide, spray with water that cannot be used according to the instructions." and insert "This product should be disposed of according to applicable Federal, State, and local procedures."

4. Print the following information on the original printed labeling before you release this product to the public:

ATTACHMENT IF APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section (e). Your release for shipment of the product constitutes acceptance of these conditions.

Richard F. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Enclosure

THE CHEMICAL

BASIC COPPER SULFATE

FLOWABLE

DIRECTIONS FOR USE

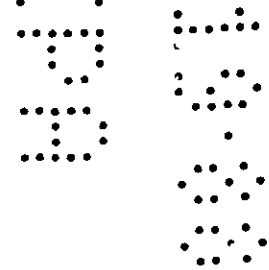
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

RE-ENTRY STATEMENT

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. Do not enter treated areas without protective clothing until sprays have dried. Certain states 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. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: CAUTION. Area treated with Basic Copper Sulfate on (DATE OF APPLICATION). Do not enter without appropriate protective clothing until sprays have dried. Required Protective Clothing: Long sleeved shirt and long legged pants.

STORAGE AND DISPOSAL

Store in a cool place, but do not allow this product to freeze. Do not store at below 35° F. Do not stack more than three high. Keep containers tightly closed when not pouring contents. Shake container for one minute prior to pouring contents. If container is damaged, pour contents into a clean container and dispose of the damaged container in an approved sanitary landfill. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide, spray, mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures. Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration or burning if allowed by State and local authorities. If burning, stay out of smoke. Do not reuse container. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.



NOTICE

Follow all directions carefully. Timing and methods of application, weather, crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage or handling of this material when not in strict accordance with the directions given on this label.

RECOMMENDED MIXING DIRECTIONS

Shake this product well before using. Fill spray tank about half full with water and with agitator running, add the required amount of Flowable Basic Copper Sulfate. Add water to fill the tank to 3/4 full and when a spreader sticker is recommended, add the proper amount according to the manufacturer's recommendation. Fill the tank and keep agitator running until the spraying is completed.

NOTE TO USER:

In some cases it may be desirable to omit oil from the spray mixture or use an alternative product other than dormant flowable oil. Consult the recommendation of the oil or other product for proper rate and timing.

CHEMIGATION

If this product is to be applied by chemigation, follow these directions.

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable about the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut down the system and make necessary adjustments should the need arise.

If the product is to be applied via a sprinkler system, the system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, back-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

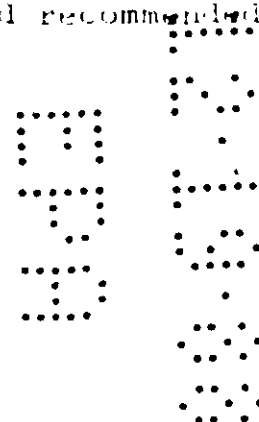
The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Keep the agitator running in the spray tank until spraying is completed. Apply Basic Copper Sulfate continuously for the duration of the water application. If this is impractical, apply this product at the end of the application cycle. Follow directions on this label that cover the crop to be treated. In no case should recommended concentrations per acre be exceeded.



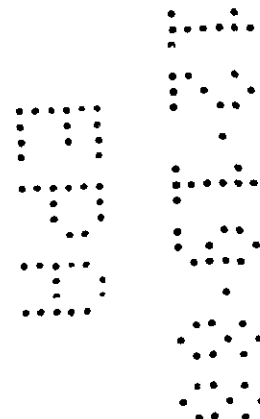
FRUITS AND NUTS

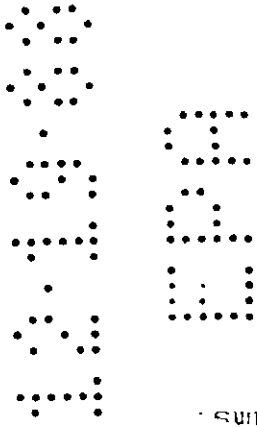
ALMOND: Brown Rot and Shot Hole - conventional dilute spray - use 2/3 to 5/6 gallon in 100 gallons water and apply 450 to 480 gallons per acre. Bud sprays for control of Brown Rot and Shot Hole should be applied at pine bud through popcorn stage. Do not spray after trees are in leaf. Apply as a dormant spray for control of Shot Hole and Brown Rot. Concentrate sprays - use 1-1/2 to 2 gallons and apply as above in 75 to 80 gallons water per acre. NOTE: Use 2 gallons per acre through swelling buds and 1-1/2 gallons per acre in popcorn stage. With aerial spraying during the dormant season for control of Shot Hole and Brown Rot, apply 2 2/3 to 3-1/3 gallons per acre in 100 gallons of water.

APRICOTS: Brown Rot and Shot Hole, conventional dilute spray - use 2/3 to 5/6 gallon per 100 gallons water. Apply as a dormant spray to control Shot Hole. Bud sprays for control of Brown Rot should be applied through swelling bud and popcorn stage. Do not spray when trees are in leaf. Concentrate spray - use 1-2/3 to 2 gallons per acre and apply as above. NOTE: Use 2 gallons per acre through swelling buds and reduce to 1-2/3 gallons in popcorn stage. When bud blight is a problem, apply the maximum rate shown above after most of leaves have fallen in the fall usually November and December, but ahead of fall rains.

AVOCADOS: Anthracnose, Elong and Scab - use 1/2 gallon per 100 gallons water. Begin treatment when blossom buds open. Repeat at 4 week intervals for a total of 5 applications. Do not apply later than 140 days after bloom.

BERRIES: (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries): Anthracnose - use 1/3 gallon per 100 gallons of water. Begin spray when leaf buds begin to open. Repeat when flower buds show white and continue at 10 to 14 day intervals. Leaf and Cane Spot and Yellow Rust in spring sprays - use 1/3 gallon per 100 gallons of water and apply when leaf buds begin to open and repeat when flower buds show white. Also make a post harvest spray after pruning, but before fall rains begin to fall use 1 gallon per 100 gallons of water.





CAUTION: Overspraying may cause injury to tender foliage of peaches, almonds, apricots and some Japanese plums.

WALNUTS: Blight - use 2/3 to 5/6 gallon per 100 gallons of water and make two treatments, the first in early pre-bloom (1/3 dilute, not calkin, blooms showing) and the second when 10 to 20% pistillate, not calkin, blooms are showing. Repeat applications for blight control 3 or 5 times during growing season if necessary.

STRAWBERRIES: Leaf Spot - use 1/3 to 1/2 gallon per 100 gallons water. Apply pre-bloom and post-bloom.

PEARS: Blight - use 1/3 to 1/2 gallon per 100 gallons water. Apply 400 gallons per acre to give one pound metallic copper per acre. Concentrate spray - use 1/3 gallon per acre in sufficient water for good coverage. Apply at 10% bloom and repeat at 5 to 7 day intervals during bloom. Do not use on D'Angelo, Comice or Seckle varieties.

PEACHES: Brown rot, Shot hole - use 2/3 to 5/6 gallon per 100 gallons water. For shot hole control apply as a dormant spray before heavy fall rains begin. For brown rot control apply at early green bud and fall dormant stage. For alternate spray - use 2 gallons in 25 to 50 gallons water and apply to one acre. Calcium only. For leaf spot spray to control shot hole and brown rot blight. Blight spray 2-3 to 3-1/2 gallons in 20 gallons of water and apply to one acre during dormant season.

PEACHES: BROWN ROT, BROWN BLIGHT (SHOT HOLE) and LEAF SPOT - dilute spray - use 2/3 to 5/6 gallon per 100 gallons. For alternate spray - use 2 to 3 gallons per acre in 25 to 50 gallons water per acre. As a dormant spray for leaf spot and brown blight spray before fall rains begin. Do not apply after wax and or after trees are in full bloom. Do not be applied before bud swell and in full bloom. Do not apply after wax and or after trees are in full bloom. Do not apply after wax and or after trees are in full bloom. Do not apply after wax and or after trees are in full bloom.

VEGETABLE AND FIELD CROPS

MIXING INSTRUCTIONS: Mix recommended amount of FLOWABLE COPPER FUNGICIDE given for one acre in sufficient water for good coverage. With dilute ground sprayer, generally apply 100 to 150 gallons spray per acre. With concentrate sprayer, generally apply 20 to 50 gallons spray per acre. With aerial sprayer generally apply 10 gallons spray per acre but do not apply less than 5.

BEANS (GREEN AND DRY): Angular Leaf Spot, Anthracnose, Bacterial Blight, Downy Mildew - use 1/3 to 2/3 gallon per acre. Begin treatment when plants are about 5 inches tall and repeat at 5 to 7 day intervals.

BEETS: Downy Mildew, Leaf Blights, Leaf Spots - use 1/3 to 1/2 gallon per acre. Begin when disease first appears and repeat every 7 to 10 days.

SUGAR BEETS: Cercospora Leaf Spot - use 2/3 gallon per acre. Begin when disease first appears and repeat at 7 to 10 day intervals.

BROCCOLI, CABBAGE, CAULIFLOWER: Downy Mildew, Leaf Spots - use 1/3 to 1/2 gallon per acre. Begin when plants are above ground in plant bed or before disease normally appears. Repeat at 7 to 10 day intervals in plant bed and field.

CARROTS: Downy Mildew, Cercospora and Alternaria Leaf Blights - use 1/2 to 2/3 gallon per acre. Begin treatment when disease first appears and repeat at 7 to 10 day intervals.

CELERY: Bacterial blight, Early and Late Blight - use 1/2 to 2/3 gallon per acre. Treat every 7 days after emergence.

CUCURBITS: (Cantaloupes, Cucumbers, Melons, Pumpkins, Squash) Angular Leaf Spot, Anthracnose, Alternaria Leaf Spot, Bacterial Wilt, Downy and Powdery Mildews, Gummy Stem Blight, Leaf Spot, Scab - use 1/3 gallon per acre. Begin treatment when plants begin to vine and repeat every 7 to 10 days. Since the disease is likely to be more serious in high plant populations (40,000 or more plants per acre) spray every 3 to 4 days to protect fruit at all stages of development. NOTE: A ground application after planting, but before emergence may help decrease infections of Angular Leaf Spot, Anthracnose and Alternaria Leaf Spot. Then follow above schedule after emergence. NOTE: Some Agricultural Experiment Stations recommend equal amount of hydrated lime when used on cucurbits. Lime when applied to

Cucurbits may cause dwarfing of plants and reduce fruit set due to increased transpiration and defoliation under some conditions. Consult your local Experiment Station for specific recommendations.

EGGPLANT: Alternaria Blight, Anthracnose, Phomopsis - use 1/3 to 1/2 gallon per acre. Begin in plant bed or in field before disease appears. Repeat at 7 to 10 day intervals.

ONIONS: Purple Blotch and Downy Mildew - use 1/2 to 2/3 gallon per acre. Begin when plants are 4 to 6 inches and repeat at 7 to 10 day intervals.

PEANUTS: Cercospora Leaf Spot - use 1/3 to 1/2 gallon per acre. Repeat at 10 to 14 day intervals. NOTE: The addition of 2 pounds flowable sulfur in a tank, mixed well, enhances leaf spot control.

PEPPERS: Anthracnose, Bacterial Spot, Early Blight, Cercospora Leaf Spot (Frog eye Spot), Downy Mildew - use 1/2 gallon to 2/3 gallon per acre. Start sprays in seedbed and continue in field at 7 day intervals. NOTE: Disease control is critical during fruiting.

POTATOES: Early and Late Blights - use 1/2 to 1 gallon per acre. Begin when plants emerge and repeat at 7 to 10 day intervals.

SPINACH: Anthracnose, Cercospora Leaf Spot, Downy Mildew, White Rust - use 1/3 to 2/3 gallon per acre. Begin when disease first appears. Repeat at 7 to 10 day intervals.

TOMATOES: Anthracnose, Bacterial Spot, Bacterial Canker, Early and Late Blight, Leaf Mold, Nailhead Rust, Septoria and Stemphylium Leaf Spot - use 1/3 to 2/3 gallon per acre. Begin in seedbed or field before disease appears. Repeat at 7 to 10 day intervals. NOTE: While the labeled rate is particularly effective against Bacterial Spot a tank mix with Maneb used in the labeled rates, controls a broad range of tomato diseases. Observe all cautions and limitations on the label of all products used in mixtures.

NOTICE TO BUYER

Follow directions carefully. Timing and methods of application, weather, crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with the directions given on this label.

