


DEC 6 1994

James Yowell
Griffin Corporation
P.O. Box 1847
Valdosta, GA 31603

Dear Mr. Yowell:

Subject: Revised Labeling
Basicop
EPA Registration No. 1812-300
Your Application Dated November 15, 1994



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:

a. If the Precautionary Statements section does not appear on the front panel, you must add a referral statement similar to the following:

See side panel for additional precautionary statements

b. The Personal Protective Equipment section must appear in the Hazards to Humans Domestic Animals section. Refer to 40 CFR § 156.212(c).

c. Correct spelling of "sprayers which are capable" under Citrus (Florida)* in the General Instructions section. Proof read the label.

d. In the shot bag directions capitalize BASICOP® and add the ® so that it is clear that it is referring to this product and also to be consistent with the rest of the label.

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e. In the Pears directions you should move the recommendation to check with local State Extension or Experimental Station authorities so that it is clear that the recommendation applies to both Fire Blight and Pseudomonas.

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,

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

Enclosure

Jacket 3 of 10

BASICOP™
BASIC COPPER SULFATE
WETTABLE POWDER
FUNGICIDE\BACTERICIDE

ACCEPTED
with COMMENTS
In EPA Letter Dated:

DEC 6 1984

ACTIVE INGREDIENT:

ELEMENTAL COPPER*.....	53%
INERT INGREDIENTS:.....	47%
TOTAL.....	100%

*FROM BASIC COPPER SULFATE

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

1812-300

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

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

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush with copious volumes of water. Get medical attention.

Griffin Corporation
Valdosta, GA 31603-1847

EPA REG. NO. 1812-300
EPA EST. NO. 45450-AZ-1

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING - AVISO

PRECAUTIONARY STATEMENTS: Causes substantial but temporary eye injury. Harmful if absorbed through the skin or inhaled. May cause skin sensitization reactions in certain individuals. Avoid contact with skin, eyes or clothing. Avoid breathing dust.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes and socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE 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.

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.

5.7.12

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR 170. This Standard contains requirements for protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

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: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or 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.

Fill the spray tank approximately one-third full. With spray tank agitator running, add the required amounts of BASICOP®. Add additional water to fill tank. Where sticker-spreaders or other spray ingredients are desired, add these when the tank is approximately three-fourths full. Keep the agitator running until spraying has been completed. Observe all cautions and limitations on label of all products used in mixtures. Since the number of possible combinations of pesticide mixtures is very large, mixtures should be tested before use and applied as soon as possible. The following specific instructions are based on general applications. The recommendations of local Agricultural Experiment Stations should be closely followed as to timing, frequency and number of sprays. BASICOP® is intended for use in a range of spray volumes; recommendations on this label reflect common practice. If it is desirable to use spray volumes other than dilute in situations not specifically addressed on this label, do so only after developing direct knowledge, prior utilization or test, of effect on target crop.

Minimum Recommended Spray Volume (Gallons) Per Acre When Applying BASICOP™ .

6012

	AERIAL	GROUND	
		DILUTE	CONCENTRATE
Row Crops	5	2	-
Vines	5	100	50
Tree Crops	10	100	50
Citrus	10	400	100
			(Florida)*

*Pesticide application equipment such as Curtec® or other similar sprayers which are capable of obtaining thorough coverage at low volumes may be used at as low as 20 gpa of spray volume.

Complete spray coverage is essential to assure full performance from BASICOP®. When treating on a concentrate basis or by aerial application, unless you have had specific previous experience, it is advisable to test for compatibility and crop tolerance prior to full scale commercial utilization.

While volume is important in obtaining full spray coverage, often factors such as foliage density, environmental conditions and sprayer calibration have a greater impact. Always be sure sprayers are calibrated to manufacturers specifications and environmental conditions are within those recommended by state and local regulatory authorities.

Per acre use rates of BASICOP® for citrus, tree crops and vines are calculated on a dilute spray basis; actual pounds of BASICOP® per A should be determined by multiplying the rate/100 gallons times the minimum recommended dilute spray volume example: citrus brown rot - 1.0 pound/100 gallons x 4 to 8 (dilute spray volume 400 to 800 gallons) = 4.0 to 8.0 pounds of BASICOP® per A. The per acre use rate of BASICOP® is applicable for both dilute and concentrate spraying. Consult the BASICOP® label for specific rates by crop.

Use sufficient water for thorough coverage.

CITRUS

Basicop may be mixed with dry foliar nutritionals (micronutrients) to create "Shot Bag" mixes to meet various nutritional requirements of citrus and provide disease protection as described on this label. Basicop per acre rates in these mixes must not exceed the maximum recommended labeled rates for disease control

SPECIFIC INSTRUCTIONS

CROP	DISEASE	RATE/100 GAL. WATER	RATE PER ACRE	USE INSTRUCTIONS
Almonds	Brown Rot Blossom Blight Shot Hole	4-5 lbs		May be applied as a dormant or bud spray. Should be applied at pink bud through late bloom. Do not apply after 50% bloom or when disease pressure is <u>expected to be so</u> .
Apples	Fire Blight	0.5 lbs.		Begin at 10% bloom and repeat at 5 days intervals until late bloom is <u>over</u> (Do <u>not</u> apply to late bloom in California).
	Scab	1 lb.		Plus 2 to 2.5 pounds hydrated lime per 100 gallons of water. <u>Apply at delayed dormant stage</u> .
Apricots	Brown Rot Blossom Blight Shot Hole	4-5 lbs.		May be applied as a dormant or bud spray. Should be applied from bud swell to late bloom. Do not spray when trees are in leaf. Use high rate when disease pressure is heavy or <u>expected to be so</u> .
Avocados	Anthrachnose, Blotch & Scab	3.0 lbs.		Begin when blossom buds open and repeat at 7 day intervals for a total of <u>5 applications</u> .
Beans	Anthrachnose, Downy & Powdery Mildew, & Leaf Spot		2 lbs.	Begin when plants are about 5 inches high and repeat every 7 to 10 days
	Bacterial Blight		4 lbs.	<u>Begin when disease appears and repeat at 7 day intervals.</u>
Beets	Downey Mildew		3 lbs.	Begin when disease normally appears and repeat at 7 day intervals thereafter.
Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries	Anthrachnose	2 lbs.		Begin when leaf buds begin to open and repeat at 7 day intervals when flower buds show white. Continue at 7 day intervals.

	Leaf & Cane Spot	2 lbs.	Begin when leaf buds begin to open. Repeat when flower buds show white. Also a post harvest spray after pruning but before <u>fall rains using 6 lbs. per 100 gallons of water</u> is beneficial.
	Yellow Rust	2 lbs.	Begin when leaf buds begin to open. Repeat when flower buds show white. Also a post harvest spray after pruning but before fall rains using 6 lbs. <u>per 100 gallons of water</u> is beneficial.
Broccoli, Brussels Sprout, Cabbage, Cauliflower	Downy Mildew & Leaf Spot	1-3 lbs.	Begin when disease normally appears and repeat 7 to 10 days thereafter. Use the high rate where disease pressure is heavy or <u>expected to be so</u> .
Cantaloupes, Cucumbers, Melons, Squash	Angular Leaf Spot, Anthracnose, Downy Mildew	2 lbs.	Begin when disease normally appears and repeat 7 to 10 days thereafter. Check with State Experiment Station for recommendations for the use of hydrated lime as a part of the spray mixture on cucurbits.
Carrots	Alternaria & Cercospora Leaf Blight, & Downy Mildew	3-4 lbs.	Begin when disease normally appears and repeat 7 to 10 days thereafter. Use the high rate where disease pressure is heavy or expected to be so.
Celery	Early Blight, Late Blight, and Leaf Spot	3-4 lbs.	Begin when plants are 6 inches high or when disease first appears. Repeat every 5 to 14 days as necessary. Use the high rate <u>where disease pressure is heavy or expected to be so</u> .
Cherries(Sour)	Brown Rot Blossom Blight	3-5 lbs.	Apply during popcorn to full bloom stage and petal fall.
	Leaf Spot	2-5 lbs.	Add 4.0 pounds of hydrated lime per 100 gallons of water. Apply at petal fall as well as 1 to 2 times after petal fall. Use lower rates at leaf fall or where disease infestation is light, use higher rates for dormant treatment or where disease infection is moderate to heavy. Do not apply to sweet cherries or the English Morelo <u>variety as severe injury will result</u>

Cherries(all) (dormant)	Dead Bud, Bacterial Gummosis & Canker (Pseudomonas), Coryneum Blight	3-5 lbs.	Apply before fall rains and again during dormancy before spring growth starts. Use the higher rate when disease pressure is high. Make first application in fall before heavy rains and a second at late dormant.
Citrus	Brown Rot	1 lb (Florida only use 2 lbs)	Begin at first sign of Brown Rot or before and during <u>wet weather</u> . <u>Repeat as necessary</u> .
	Greasy Spot Pink Picting	1.5-3 lbs.	Use as a summer spray (about mid July). NOTE: For Aerial or concentrate application apply 10 to 26 lbs. per acre in water diluted as recommended by the manufacturer of the sprayer used. Use no less <u>than 10 gallons of water per acre</u> .
	Melanose*	1.5-3 lbs.	Apply 1 to 3 weeks after petal fall, repeat application 4 weeks later if necessary. NOTE: For Aerial or concentrate application apply 10 to 26 lbs per acre in water diluted as recommended by the manufacturer of the sprayer used. Use no less than 10 <u>gallons of water</u> per acre.
	Scab*	1.5-3 lbs.	Make two applications. One immediately before flush and the second at $\frac{2}{3}$ petal fall. Use the high rate when disease pressure is heavy or expected to be so. NOTE: For Aerial or concentrate application apply 10 to 26 lbs. per acre in water diluted as recommended by the manufacturer of the sprayer used. Use no less than 10 gallons of water per acre. *NOTE: Sprayable sulfur may be added in sprays for Melanose and Scab.
Currants & Gooseberries	Anthrachnose & Leaf Spot	6 lbs.	Make 3 applications; at full bloom, 2 weeks later, and after harvest.
Eggplant	Alternaria Leaf Blight, Anthrachnose, Phomopsis	3-4 lbs.	Begin when disease normally appears and repeat 7 to 10 days thereafter. Use high rate where disease pressure is heavy or expected to be so.

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Grapes	Black Rot & Downy Mildew	2 lbs.	Apply when first leaves appear, just before blossom opens, after petal fall and every 2 weeks thereafter up to 2 weeks before harvest.
Olives	Peacock Spot, Olive Knot	4-6 lbs.	Make first application before winter rains fall. A second application in early spring also should be made for Olive Knot. Use high rate where disease pressure is <u>heavy or expected to be so.</u>
Papayas	Anthrachnose	1.5 lbs.	Apply when disease is expected to appear and repeat at 10 to 14 day intervals or at 5 to 7 day intervals during periods of heavy rainfall.
Peaches and Nectarines	Brown Rot Blossom Blight	4-5 lbs.	Apply in pink buds stage.
	Leaf Curl, Peach Blight	4-5 lbs.	Apply as a dormant spray. Do not use when trees are in leaf. In CALIFORNIA if dormant spray is to be made by aircraft, use 16 to <u>20 lbs. per acre in 20 gallons of water.</u>
Peanuts	Cercospora Leaf Spot	3 lbs.	Begin when disease normally occurs and repeat at 14 day intervals. For heavy pressures use another EPA registered fungicide in accordance with its label instructions.
Pears	Fire Blight	2-4 lbs.	Begin at 10% bloom and repeat 5 to 7 days during bloom period. Special attention should be given to repeat sprays after showers of rain. Check with local State Extension or Experiment Station authorities to <u>verify determine sensitivities to copper. Do Not Use on copper sensitive varieties such as Anjou, Comice or Seckel may result in fruit russet.</u>
	Pseudomonas (Blossom Blast and Blight)	3-5 lbs.	Apply before fall rains and again during dormancy before spring growth starts. Use the higher rate when disease pressure is high or when conditions favor development of such. NOTE. Excessive dosages may cause fruit russet.

Pecans	Scabs	2 lbs.	Apply according to State Extension Service commended spray schedule.
Peppers	Anthracnose, Bacterial Spot, Cercospora Leaf Spot, (Frogeye) Downy Mildew, Early/Late Blight	2-4 lbs.	Begin when disease normally appears and repeat 7 to 10 days thereafter. Use high rate where disease pressure is heavy or expected to be so. A tank mix with maneb or mancozeb (1.2-1.6 lbs ai/A) has been found to provide more effective control of Bacterial Spot. When maneb or mancozeb are used, do not apply within 5 days of harvest.
Plums & Prunes	Shot Hole, Brown Rot, Blossom Blight	4-5 lbs.	May be applied as a dormant or bud spray. Bud sprays should be applied in popcorn to full bloom stage. Use the high rate where disease pressure is heavy or expected to be so.
Potatoes	Early & Late Blight	3-6 lbs.	Apply at first sign of disease and repeat 7 to 10 days thereafter. Use high rate where disease pressure is heavy or expected to be so.
Spinach	Cercospora, Leaf Spot, Anthracnose, Downy Mildew (Blue Mold), White Rust	2-4 lbs.	Begin when disease normally appears and repeat 7 to 10 days thereafter. Use high rate where disease pressure is heavy or expected to be so.
Strawberries	Leaf Spot	2-3 lbs.	Apply at prebloom and post harvest. Use the high rate where <u>disease pressure is heavy or expected</u> to be so.
Sugar Beets	Cercospora Leaf Spot	4 lbs.	Begin when disease normally occurs and every 7 to 10 days thereafter.
Tomatoes	Anthracnose, Early & Late Blight, Leaf Mold Septoria, Bacterial Spot, Bacterial Cancker.	2-4 lbs.	Begin when disease normally appears and repeat every 7 to 10 days. Use the high rate when disease pressure is heavy or expected to be so. A tank mix with maneb or mancozeb (1.2 lbs ai/A) has been found to provide more control of Bacterial Spot. When maneb or mancozeb are used do not apply within <u>5 days</u> of harvest.
Walnuts	Blight	4-5 lbs.	The first application should be made late dormant prior to when catkins expand. Make additional application during bloom and early nutlet stage or as needed if

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frequent rainfall occurs.

WARRANTY STATEMENT

GRIFFIN CORPORATION warrants that this product in its unopened package conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions on the plants and crops specified. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling of use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes all risk of any such use.

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