

Reg # 1812-300

PM-22

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OCT 8 1993

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

L. Vernon White
GRIFFIN CORPORATION
P. O. Box 1847
Valdosta, GA 31603

SUBJECT: Label Amendment Submission of 06/15/93 in Compliance
with PR Notice 93-7
EPA Reg. No. 1812-300
BASICOP

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped "Accepted with comments" is attached. Make any required changes described in the attached and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 60% recycled fiber

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Office of Pesticide Programs (H-7504C)
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460-0001

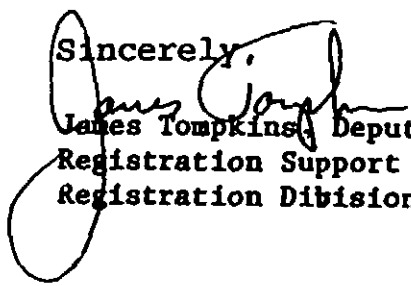
Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL)
Room 266A Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling the "Agricultural Use Requirements" text must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,


James Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

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GRIFFIN CORPORATION

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1812-300 06/15/93

Original Submission

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

The Agricultural Use Requirements section must either be placed in a box or printed on the label in a contrasting color from the surrounding text.

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BASICOP™
BASIC COPPER SULFATE
WETTABLE POWDER
FUNGICIDE/BACTERICIDE

ACCEPTED
with COMMENTS
in EPA Letter Dated

OCT 8 1993

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

1812-300

ACTIVE INGREDIENT:

ELEMENTAL COPPER*..... 53%

INERT INGREDIENTS:..... 47%

TOTAL..... 100%

*FROM BASIC COPPER SULFATE

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO



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.

~~**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.~~

SEE ADDITIONAL PRECAUTIONARY STATEMENTS

50 LBS. NET

BASICOP™

EPA REG. NO. 1812-300

EPA EST. NO. 45450-AZ-1

Manufactured by:

Griffin Corporation

P. O. Box 1847

Valdosta, Georgia 31603-1847

Griffin

Griffin. The Hardworking Difference™

™ Trademark of Griffin Corporation

BEST AVAILABLE COPY

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

WARNING - AVISO

~~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. Protective clothing, including goggles, should be worn. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.~~

~~[REDACTED]~~

~~[REDACTED]~~

~~[REDACTED]~~

~~[REDACTED]~~

~~[REDACTED]~~

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.

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.

DIRECTIONS FOR USE

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

~~[REDACTED]~~

~~[REDACTED]~~

[REDACTED]

[REDACTED]

[REDACTED]

RE-ENTRY STATEMENTS

~~Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry 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. 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: WARNING: Area treated with BASICOP TM on (date of application). Do not enter without appropriate protective clothing until spray has dried. In case of accidental exposure see Statement of Practical Treatment.~~

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 TM. 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 TM 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

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Applying BASICOP TM.

AERIAL		GROUND	
		DILUTE	CONCENTRATE
Row Crops	5	20	-
Vines	5	100	50
Tree Crops	10	400	50
Citrus	10	400	100

Complete spray coverage is essential to assure full performance from BASICOP TM. 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 TM for citrus, tree crops and vines are calculated on a dilute spray basis; actual pounds of BASICOP TM /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 TM per A. The per acre use rate of BASICOP TM is applicable for both dilute and concentrate spraying. Consult the BASICOP TM label for specific rates by crop.

Use sufficient water for thorough coverage.

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. Bud sprays should be applied at pink bud through popcorn stage. Do not apply after 50 bloom or when trees are in leaf. Use high rate when disease pressure is heavy or expected to be so.
Apples	Fire Blight	0.5 lbs.		Begin at 10 bloom and repeat at 5 day intervals until late bloom is over. (Do not apply to apples during bloom in California).
	Scab	1 lb.		Use 2 to 25 parts hydrated lime per 100 gallons of water. Apply at delayed dormant stage.
Apricots	Brown Rot Blossom Blight Shot Hole	4-5 lbs.		May be applied as a dormant or bud spray. Bud sprays should be applied from bud swell to popcorn stage. Do not spray when trees are in leaf. Use high rate when

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Avocados	Anthracnose, Blotch & Scab	3.0 lbs.		disease pressure is heavy or <u>expected</u>
Beans	Anthracnose, Downy & Powdery Mildew, & Leaf Spot	2	lbs.	Begin when blossom buds open and repeat intervals for a total of <u>5 applications</u>
	Bacterial Blight	4	lbs.	Begin when plants are about 5 inches high every to 10 days
Beets	Downey Mildew	3	lbs.	<u>Begin when disease appears and repeat intervals.</u>
Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries	Anthracnose	2	lbs.	Begin when disease normally appears and 3 days thereafter.
	Leaf & Cane Spot	2	lbs.	Begin when leaf buds begin to open and flower buds show white. Continue at 10 day intervals.
	Yellow Rust	2	lbs.	Begin when leaf buds begin to open and flower buds show white. Continue at 10 day intervals.
Broccoli, Brussels Sprout, Cabbage, Cauliflower	Downy Mildew & Leaf Spot	1-3	lbs.	Begin when leaf buds begin to open. When buds show white. Also a post harvest pruning but before <u>fall rains using 6 gallons of water</u> is beneficial.
Cantaloupes, Cucumbers, Melons, Squash	Angular Leaf Spot, Anthracnose, Downy Mildew	2	lbs.	Begin when disease normally appears and 3 days thereafter. Use the high rate when pressure is heavy or <u>expected to be</u>

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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.	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. Repeat as necessary.</u>
	Greasy Spot Pink Pitting	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

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	Scab*	1.5-3 lbs.	water diluted as recommended by the manufacturer of the sprayer used. Use no less than 10 <u>gallons of water</u> per acre.
			Make two applications. On - immediately before flush and the second at 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	Anthracnose & Leaf Spot	6 lbs.	Make 3 applications; at full bloom, 2 weeks later, and after harvest.
Eggplant	Alternaria Leaf Blight, Anthracnose, 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.
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	Anthracnose	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>

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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 variety sensitivities to copper. DO NOT USE on <u>Anjou</u> , Comice of Seckel varieties.
	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 recommended 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,	2-4 lbs.	Begin when disease normally appears and repeat 7 to 10 days thereafter. Use high rate where disease pressure is

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	Downy Mildew (Blue Mold), White Rust		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 to be so.</u>
Sugar Beets	Cercospora Leaf Spot	4 lbs.	Begin when disease normally occurs and every 7 to 10 days thereafter.
Tomatoes	Anthrachnose, 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 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.

GCN 011690
CPC 021089