55146-9 Pinot 10F11

Agtrol Chemical Products c/o Linda Elliott Pesticide Development Services Route 1, Box 1228 Hamira, GA 31632

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Gentlemen:

Subject: Amendments - Formula Change, Revised Labeling, Additional Brand Name CP Fixed Copper Flowable Agricultural Fungicide EPA Registration No. 55146-9 Your Submission Dated December 22, 1986 EPA Received Date January 13, 1987

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

- 1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Under Pecans, the dosage rate was omitted when Directions For Use were changed. Include the dosage rate as stated in previous submission.
  - b. Under Plums and Prunes, for blossom blight and leaf spot, indicate that the dosage rate given is in terms of "pints."
  - c. Under Ornamentals, indicate whether "mildew" control is for powdery mildew, downy milder, or both. Also, clarify the terms "blight" and "leaf spot" indicating which specific disease/organism is involved. We have enclosed a list of acceptable disease claims for basic copper sulfate on ornamentals.
  - d. Under Spinach, change "downy leaf spot" to "downy mildew."

90636:Mountfort:MF-15:KENCO: 2/9/87:2/19/87:NeeCee: lf:JS:EK:NeeCee

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

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 bearing the amended labeling constitutes acceptance of these conditions.

The additional brand name "Copper Power Flowable" is acceptable and has been included in our files. Labeling must be identical to basic labeling except for the brand name.

The formula statement dated September 17, 1986 is acceptable. It is understood that this formula supersedes previously accepted formulas for this product. We are accepting the increase in active ingredient under 40 CFR Subpart E 152.81(b)(4)(i).

A stamped copy of labeling is enclosed for your records.

Sincerely yours,

Regel

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

Enclosures

FRONT LABEL

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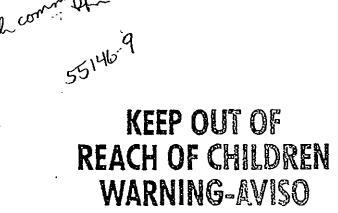
COPPERPONER

AGRICULTURAL FUNGICIDE

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SEE BACK PANEL FOR STATEMENT OF PRACTICAL TREATMENT NET CONTENT: 21/2 GALLONS

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ACTIVE INGREDIENT:		
Copper (Derived	from Basic	
Copper Sulfate)		. 15%
INERT INGREDIENTS:		. 85%
Ţ	OTAL	.100%
	CONTRACTOR AND AND ALL	- 194 (S. 1977) - 1977 - 1977
EPA REG NO 55146-9	EPA EST NO 3589	1.117-3

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## COPPER POWER

# FLOWABLE AGRICULTURAL FUNGICIDE

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## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## WARNING-AVISO

Causes substantial but temporary eye injury. May cause skin sensitization in certain individuals. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, Avoid breathing spray mist, Protective clothing, including goggles, should be worn. Wash thoroughny with soap and water after handling. Remove contaminated clothing and wash celore reuse. Do not apply this product in such a manner as to directly or through doff expose workers or other persons. The area ceing treated must be vacated by unprotected persons. PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiqueta hava sido explicaço ampliamente.

## 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 the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious cerson. IF ON SKIN: Wash with blenty of soab and water. Get medical attention.

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 plenty of water. Call a physician.

## ENVIRONMENTAL HAZARDS

Do not apply directly to water. Co not contaminate water by cleaning of equipment or disposal of wastes. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites.

## ENDANGERED SPECIES RESTRICTIONS

It is a violation of Federal laws to use any pesticide in a manner that results in the death of an engangered species or adverse modification of their habitat.

The use of this product may pose a hazard to certain Federally designated endangered species known to occur in specific areas within the following counties:

STATE	Soecies	Bulletin No.	COUNTY
CALIFORNIA	Solano Grass	EPA/ES-85-13	Solano
TENNESSEE	Slackwater Darter	EPA/ES-85-04	Lawrence Wayne Hancock
	Freshwater Mussels	EPA, ES-85-07	Claiborne Hawkins Suilivan
ALABAMA	Slacxwater Darter	EPA, ES-85-05	Laucerdale Limestone Macison
VIRGINIA	Freshwater Mussels	EPA/ES-85-06	Grayson Smyth Scott Use Wasnington
within these counties wi either your County Agno	it in the above counties you must obtain the nere the use of this cesticide is prohibited, cultural Extension Agent. The Endangered S ional Office of the U.S. Fish and Wildlife S	unless specified otherwise. The EPA Species Specialist in your State Wild	A Bulletin is available tore.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste dump facility. CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and discose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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#### GENERAL INSTRUCTIONS

COPPER POWER FLOWABLE will control certain diseases of fruits, nuts vegetables, field crops, and ornamentals caused by fungi and bacteria. Do not apply COPPER POWER FLOWABLE undiluted or apply it to crops not listed on this label. Do not use with or immediately before or after lime sulfur. Consult your State Agricultural Extension Service or Experiment Station for detailed information about spraying for best results in your local area.

#### DIRECTIONS FOR USE

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

SPRAY MIXTURE PREPARATION: Half-fill the spray tank with water. Start agitator and slowly pour in the required amount of COPPER POWER FLOWABLE. Keep agitator running while adding the remaining water and any other products to the spray tank. Continue agitation until spraying is finished and tank has been emptied.

APPLYING SPRAY MIXTURE: The directions given under each crop are The for applying dilute sprav mixture unless otherwise shown. amount of COPPER POWER FLOWABLE applied per acre in concentrate and aerial sprays should be the same as the amount applied per acre in dilute spravs. The required amount should be mixed with enough water to thoroughly cover the crop with spray mixture. The volume of water needed will depend upon the spray equipment used and the size of the crop being sprayed. Read the information below about applying dilute, concentrate and aerial sprays. APPLYING DILUTE HIGH-VOLUME SPRAYS: On vegetable crops use 2. to 100 gallons of spray mixture per acre; on fruit and nut trees use As much as 1500 gallons per acre 250 to 800 gallons per acre. may be needed for large trees.

APPLYING CONCENTRATE GROUND SPRAYS: On vegetable crops use 5 to 20 gallons of spray mixture per acre; on fruit and nut trees use 25 to 250 gallons per acre.

APPLYING AERIAL SPRAYS: Use 3 to 30 gallons per acre.

When making applications use lower rate specified when disease pressure is light and/or plants are small. Use higher rates for larger plants and/or when disease severity is high.

#### **RE-ENTRY STATEMENT**

Written or oral warning must be given to workers who are expected to be in a treated area or in 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

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if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: WARNING - AVISO. Area treated with Basic Copper Sulfate on (date of application). Do not enter without appropriate protective clothing until spray has 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.

#### FIELD CROPS

PEANUTS, Leaf Spot (Cercospora). Use 2 to 4 pints/acre when disease first appears. Use lower (2 pints) rate on small plants. Repeat at 10 to 14 day intervals."

"Consult your county agricultural extension agent for current state recommendations as to amounts of basic copper sulfate and/or sulfur to be used as spray.

SUGAR BEETS, Downy Mildew, Leaf Spot (Cercospora). Begin when plants are 4 to 6 inches high (or when disease appears), apply 2 2/3 to 6 2/3 pints/100 gallons as required to cover. Repeat at 7 to 10 day intervals.

TOBACCO, Wildfire. 1 pint in 10 gallons water/100 sq. ft. plant bed. Begin after sowing seed or when plants emerge. Repeat at 5 to 10 day intervals until transplanted.

#### FRUIT and NUTS

ALMONDS, Shot Hole. Apply 2 2/3 to 4 pints/100 gallons as fall dormant spray (California Dec. 15-Jan. 15), repeat in spring at petal fall and jacket stages. Brown Rot. Use 3 pints/100 gallons at redbud and popcorn stages. Do not spray after 50% bloom or when trees in leaf. OVER-SPRAYING MAY INJURE TENDER FOLIAGE.

APPLES, Anthracnose. Use 4 to 5 1/3 pints/100 gallons. For red varieties apply to foliage before or after harvest. For vellow varieties apply to foliage after harvest once every 2 to 3 years Brooks Spot. 'se 1 pint plus 2.0 pounds hydrated as necessary. Apply in late cover sprays. Bitter Rot; Black lime/100 gallons. Rot, Blotch, Powdery Mildew. 1/2 to 1 1/2 pints plus '3 'to 5 pounds hydrated lime/100 gallons. Begin at petal fall and repeat through fourth cover spray. Bulls-eye Rot. Use 4 pints with ' suitable spray oil/100 gallons of water. Apply after harvest. Fire Blight. 1/3 to 1/2 pints/100 gallons; 2 pints/acre in odncentrate sprayers. Begin at 10 percent bloom. Repeat at 5-day intervals until late bloom is over. Scab. 1 to 1 1/4 pints plus 2.0 to 2.5 pounds hydrated lime/100 gallons; or, 1/3 pint/100 gallons. Apply at delayed dormant stage. Scoty Blotch. 1 1/4 pint plus 2.5 pounds hydrated lime/100 gallons. NOTE: Apply in late cover sprays. Under conditions where copper injury is likely to occur, add additional lime.

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APRICOTS, Shot Hole (Coryneum Blight). Use 2 2/3 to 5 1/3 pints/100 gallons with 1 1/2 gallons spreader-sticker as fall dormant spray (California Nov. 15 to Jan. 15). Repeat in red bud stage. Brown Rot. Use 2 2/3 to 4 pints/100 gallons at red bud, early bloom and full bloom. Do not spray after petal fall during growing season while trees in leaf. Scab. Apply 2 2/3 to 4 pints/100 gallons when recommended by State Extension Service Specialists.

AVOCADO, Anthracnose, Blotch (Cercospora), Scab. Use 2 2/3 pints/100 gallons. Spray first when blossom buds open. Make 5 applications at four-week intervals. Do not apply more than 140 days after bloom.

BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES, Leaf Spot and Cane Spot. Use 2 pints/100 gallons Spray first when leaf buds swell, again when flowers begin to open. Anthracnose. Use 2 pints/100 gallons Spray when leaf buds begin to open, again when flower buds show white. Repeat at 10 to 14 day intervals. Post-harvest, after pruning and oldwood removal but before fall rains, apply 5 1 3 pints/100 gallons with 1 to 1 1/2 gallon spreader-sticker as rust dormant spray.

CHERRIES (sour), Brown Rot. 2 2/3 to 4 pints/100 gallons Apply in red bud to popcorn and late bloom stages. Leaf Spot. Use 2 2/3 to 4 pints plus 4.0 pounds of hydrated lime/100 gallons Apply at petal fall and make 1 or 2 post-harvest applications. Shot Hole. 2 2/3 to 4 pints/100 gallons Apply as a dormant spray.

CITRUS, Brown Rot, Septoria Leaf, Fruit Spot. Apply 2/3 to 1 1/3 pints plus 4 pounds hydrated lime per 100 gallons. APply before fall rains or at first sign of disease. Spreader-sticker may be added. Use lowest rate in California where copper injury may be a problem, use highest rate elsewhere. Greasy Spot, Melanose, Scab. Apply 1 to 2 pints/100 gallons in dormant spray before flush begins; repeat at 2/3 petal fall.

CURRANTS, GOOSEBERRIES, Anthracnose, Leaf Spot. (a) Spray with 1 1/3 pints/100 gallons at leaf opening, repeat at 10-14 day, intervals; or (b) apply 5 1/3 pints/100 gallons at full bldom, two weeks later, and after harvest.

GRAPEFRUIT: See Citrus.

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GRAPES, Anthracnose. Use 2 2/3 pints/100 gallons on dormant vines in late spring. Repeat every 10 days-two weeks after leaves form. Black Rot, Downy Mildew, Bitter Rot. Use 2 2/3 to 3 pints plus 2 to 6 pounds hydrated lime/100 gallon spray. Apply when first leaves appear; repeat before blossoms open, "after petal fall, and every two weeks thereafter. Dead Arm. Use 3 pints plus 16 pounds hydrated lime/100 gal; apply as soon as green tips show. Powdery Mildew. Apply 2 2/3 to 3 pints/100 gallons when disease appears. KUMQUAT, LEMON, LIME: See Citrus.

OLIVES. Leaf Spot (Peacock Spot, Cyclonium). 2 2/3 to 4 pints/100 gallons applied in late October.

NECTARINES: See Peaches.

ORANGES. See Citrus.

PEACHES, NECTARINES. Bacterial Disease (Blight) of peaches, Leaf Curl, Shot Hole (Peach Blight). Apply dormant spray at 2 2/3 to 5 1/3 pints/100 gallons during pink or red dub to popcorn stages. Do not apply during blossom period or when trees in leaf. OVER-SPRAYING MAY CAUSE INJURY TO TENDER FOLIAGE.

PEARS. Fire Blight. Apply 1/3 pints/100 gallons at 10% bloom. Repeat every five days or after each rain until end of late bloom. Leaf Blight, Scab. use 1 pint plus 2 1/2 pounds hydrated lime/100 gallons spray in first three cover sprays. Bulls-eye Rot. Apply 3 pints plus suitable spray oil before harvest. DO NOT USE ON ANJOU, COMICE OR SECKEL VARIETIES. LIMITS PER ACRE: Use 2 pints for Fire Blight, 5 1/3 pints preharvest, 20 pints post harvest.

PECANS. Scab. Begin applications at end break (2-3 inches long). Make second application at pre-pollination. Thereafter, repeat at 2-4 week intervals as needed to maintain control.

PLUMS, PRUNES, Dormant spray for Brown Rot. Apply 5 pints plus 1 1/2 gallon spreader/100 gallon in dormant season. LIMITS: 25 pints/acre. Black Knot. Apply 2 to 3 pints plus 8 to 12 pints hydrated lime/100 gallons at green tip stage. Repeat at shuckshed and in two cover sprays if disease is serious. Blossom Blight, Leaf Spot. Apply 1 1/2 to 2 1/2 plus 6 to 10 pounds hydrated lime/100 gallons; spray just before blossoms open; repeat at shuck split and again in 2 to 3 weeks. OVERSPRAYING MAY INJURE TENDER FOLIAGE OF SOME JAPANESE PLUMS.

TANGERINE, TANGELO: See Citrus.

STRAWBERRIES, Downy Mildew, Leaf Blight, Scorch or Spot. After leaves form spray 2 2/3 pints/100 gallons at 10 to 14 day intervals. Anthracnose. Use 2 2/3 to 3 pints plus 2 to 3 pounds hydrated lime/100 gallons pre-blossom. Post-Harvest, spray foliage with 3 pints plus 6 pounds hydrated lime per 100 gallons.

WALNUTS, Blight. Spray pre-bloom and at 10% pistillate bloom and in post bloom as needed during growing season. Use 4 pints/100 gallons.

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#### ORNAMENTAL PLANTS and TREES

For the following crops and diseases applv 1 1/3 pints/100 gallons. Spray before disease appears. Repeat every 7 to 10 days and after each rain. Arbor Vitae, Blight Asters, Leaf Spot, Mildew Azaleas, Leaf Spot, Blight, Mildew Boxwood, Leaf Spot Carnations, Leaf Spot, Blight Chrysanthemums, Leaf Spot, Blight Dahlias, Mildew, Botrytis Blight Dogwood, Leaf Spot Gardenias, Blight, Leaf Spot Geraniums, Botrytis Blight, Leaf Spot Gladiolus, Botrytis Blight, Leaf Spot Hollyhocks, Leaf Spot Lilacs, Leaf Spot Lilies, Botrytis Blight Maples, Anthracnose Marigolds, Mildew Nasturtium, Mildew Oaks, Leaf Spot, Anthracnose Palms, Smut Pansies, Leaf Spot, Anthracnose Peonies, Blight, Mildew Phlox, Mildew, Leaf Spot Pines, Blight Rhododendrons, Leaf Spot, Blight Roses, Leaf Spot, Powdery Mildew Snapdragon, Blight, Anthracnose Stock, Leaf Spot Sweet Peas, Mildew, Leaf Spot Tulips, Botrytis Blight Violets, Anthracnose, Leaf Spot Virginia Creeper, Leaf Spot, Mildew **VEGETABLE CROPS** BEANS, Anthracnose, Angular and other Leaf Spots, Downy and Powdery Mildew. Apply 1 1/3 to 4 pints/100 gallons. \*Start\* spraying when plants are 5 inches high or when diseases appear. Repeat at 5 to 10 day intervals, as needed. BEETS, Leaf Blight and Spot, Downy Mildew. Begin sprays of 2 2/3 to 6 2/3 pints/100 gallons when diseases appear; repeat every: 7 to 10 days. BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, Downy Mildew or

Leaf Spots. In plant bed spray with 2/3 to 1 1/3 pints/acre\*ween plants are above ground before diseases appear; repeat in 7 to\*10 days as needed. In field use 1 1/3 pints/100 gallons at 7 to 10 day intervals as needed.

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**CARROTS**, Downy Mildew and Leaf Spots. Apply 2 2/3 pints plus 2 pounds hydrated lime/100 gallons when disease first appears; repeat every 7 to 10 days gradually increasing to 4 pints plus 2 pounds hydrated lime/100 gallons.

CELERY, Early Blight (Cercospora), Late Blight (Septoria), Leaf Spots. Begin with about 2 2/3 pints/100 gallons in plant bed or field when plants are 6 inches high or disease first appears. Repeat in 5 to 14 days as needed, building up to 5 pints/100 gallons as plants grow.

CUCURBITS, (Cantaloupe, Cucumbers, Honeydew Melons, Muskmelons, Pumpkin, Squashes, Watermelons), Angular Leaf Spot, Anthracnose, Bacterial Wilt, Downy and Powdery Mildew, Gummy Stem Blight, other Leaf Spots and Scab. Apply 2 to 2 2/3 pints/100 gallons. spraying when plants emerge or begin to vine, or before Start disease appears. Repeat at 7 to 10 day intervals. Sprav to protect crop at all stages of development. Ground application of this product after planting and before plant emergence may help decrease infestation of Angular Leaf Spot.

EGGPLANT, Anthracnose, Downy Mildew, Early (Alternaria) Blight, Phomopsis Blight, Leaf Spots. Beginning in plant bed or in field before disease appears, apply 2 2/3 pints/100 gallons. Repeat at 7 to 10 day intervals.

LETTUCE, Anthracnose, Leaf Spot (Cercospora), Downy Mildew. Spray 1 1/3 to 2 2/3 pints/100 gallons before diseases appear. Repeat at 7 to 10 day intervals.

ONIONS, Downy Mildew, Leaf Spots. Use 2 2/3 pints/100 gallons. Begin as soon as plants grow to 4 to 6 inches; repeat every seven days.

PEAS, Downy Mildew, Leaf Spots. Use 2 to 4 pints/100 gallons. Begin spraying before disease appears; repeat every 7 days.

PEPPERS, Anthracnose, Bacterial Spot, Early and Late Blight, Cercospora Leaf Spot (Frogeye Spot), Downy Mildew. Spray in plant bed before disease appears. Continue in field at 7 to 10 day intervals, especially during fruiting stage. Use 2 2/3 to 4 pints/100 gallons.

POTATOES, Early and Late Blights. Start spraying when plants emerge, repeat at 7 to 10 day intervals (every 5 days for sever Late Blight). Use from 1 1/3 to 2 pints to 4 to 5 1/3 pints/100 gallons.

SEEDLINGS, VEGETABLE: See vegetable seedlings.

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**SPINACH,** Anthracnose, Downy Leaf Spot, Leaf Spot (Cercospora), White Rust. Jse 2 to 2 2/3 pints/100 gallons. Spray before diseases appear. Repeat every 7 to 10 days.



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TOMATOES, Anthracnose, Bacterial Spot, Bacterial Canker (Southeast), Early and Late Blights, Leaf Mold, Nailhead Rust, Septoria and Stemphyllum Leaf Spots. Begin protective spray in plant bed or field before diseases appear. Use 2 2/3 to 4 pints/100 gallons. Repeat at 4, 7, 10 or 14 day intervals as required.

**VEGETABLE SEEDLINGS:** To prevent or control Damping-off. Apply 4 pints/100 gallons, 8 pints/acre, to soil surface in plant beds after emergence. Repeat at 4 to 7 day intervals as required.

### WARRANTY STATEMENT

AGTROL CHEMICAL PRODUCTS warrants that the product 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. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably forseeable to seller and buyer assumes all risk of any such use.

