

55146-8

PM 23

106 10

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

MAY 7 1987

Gentlemen:

Subject: Amendment - Revised Labeling/Formula/Additional Uses
Coxysul Wettable Powder Fungicide
EPA Registration No. 55146-8
Your Submissions Dated February 2 and April 27, 1987

The revised formula statement is acceptable and has been included in our files. It is understood that the formula dated December 23, 1986 replaces previously accepted formulas for this product.

The revised labeling, adding uses under the Selective Method, is acceptable provided you:

1. Submit/cite all data required for registration/reregistration of your product under section 3(c)(5) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) when the Agency requires all registrants of similar products to submit such data.
2. Make the following changes before releasing the product for shipment bearing amended labeling.
 - a. Add the Spanish signal word "AVISO" and the required text "Precaucion al usuario . . ." to the front panel.
 - b. Under first aid for eyes, delete "if irritation persists."
 - c. Modify human hazards statements for eyes to read "Causes substantial but temporary eye injury" and for skin, to read "May cause skin sensitization in certain individuals."
 - d. Add the subheading "Pesticide Disposal" and the following language from PR Notice 83-3:

Pesticide wastes may be disposed of on site
or at an approved waste disposal facility.

88357:I:Mountfort:MF-6:KENCO:55146-8/1987:bjp:VO:EK:kim							
SYMBOL	ORIGINATOR						
SURNAME							
DATE							

BEST AVAILABLE COPY

OFFICIAL FILE COPY

e. Modify Environmental Hazards text as follows:

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of wastes.


3. Submit one (1) copy of final printed labeling incorporating the changes above.

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 amended labeling constitutes acceptance of these conditions.

A stamped copy of labeling is enclosed for your records.

We note that product chemistry information indicated the analytical method for enforcement was attached to the February 2 submission. This attachment was not received by Team 23. Please resubmit this information for our records. Also, the EPA Accession Number for oral or dermal toxicity studies should be 251795 instead of 251794.

Sincerely yours,

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

Enclosure

MAXIMUMS 12 12/22 per 55146-8

20610

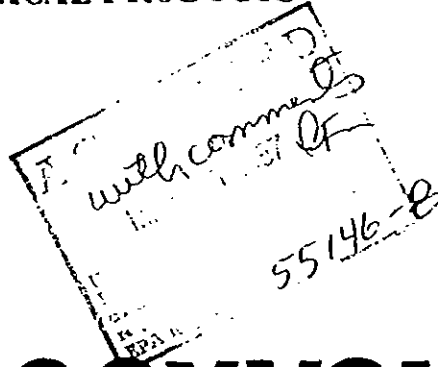


AGTROL CHEMICAL PRODUCTS

Houston, Texas 77074

EPA REG. NO. 55146-8

EPA EST. NO.



COXYSUL

AGRICULTURAL WETTABLE POWDER
FUNGICIDE

ACTIVE INGREDIENT:

Copper* expressed as metallic 50.0% ✓

INERT INGREDIENTS: 50.0%

Total 100.0%

*Copper as metallic derived from Copperoxychloride 48.0% by wt. this product;
copper as metallic derived from basic copper sulfate 2.0% by wt. this product.

KEEP OUT OF REACH OF CHILDREN
WARNING *AVISO*

see comments at usage, etc

HARMFUL IF SWALLOWED. DO NOT SWALLOW OR INHALE

See Additional precautions on back panel

PRACTICAL TREATMENT: (First Aid)

IF SWALLOWED: 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. Get medical attention.

IF ON SKIN: Flush with water. Remove and wash contaminated clothing before reuse.

IF IN EYES: Immediately flush with large quantity of water for at least 15 minutes and get medical attention if irritation persists.

NET WEIGHT
20 LBS.



AGTROL CHEMICAL PRODUCTS.

A Member of The Philipp Brothers Chemicals, Inc. Group of Companies
7324 Southwest Freeway, Suite 1800
Houston, Texas 77074
713/995-0111

BEST AVAILABLE COPY

COXYSUL contains copperoxychloride sulfate together with specially selected and stabilized mineral fillers and appropriate surface active agents. COXYSUL is spray dried to produce a fine uniform sprayable powder that wets out and goes into suspension readily in water.

DO NOT apply as a dry powder. Fill the spray tank half full of water, begin agitation and add spray adjuvants if needed. As tank continues to fill, add required amount of this product. Constant agitation during spraying operation is necessary to maintain adequate suspension.

This product is compatible with most other insecticides and/or fungicides EXCEPT lime sulfur and dithiocarbamates. When used in combination with oil, OBSERVE THE PRECAUTIONS ON THE OIL LABEL.

COXYSUL is prepared for use against certain diseases of crops as listed below. Unless otherwise noted, dosages are given in pounds of this product per 100 gallons of water to be applied as a full coverage spray with conventional spray equipment. Maximum dosages refer to pounds of this product per acre per application. When rates are given as ranges, use lower rates when disease conditions are light to moderate and higher rates when conditions are severe.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

substantial but temporary injury
Causes eye (and skin) irritation. Do not get in eyes, skin, or on clothing. Harmful if swallowed. Wear goggles, face shield or safety glasses when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. *May cause skin dermatitis.*

ENVIRONMENTAL HAZARDS

do not apply before petal fall
This product is toxic to fish. Do not apply directly to water. Do not apply after petal fall during the growing season or exposure of wastes. Do not apply when weather conditions favor drift from the areas treated. Do not apply where runoff is likely to occur. Apply this product only as specifies on this label.

DIRECTIONS FOR USE

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

BEST AVAILABLE COPY

RE-ENTRY STATEMENT

Written or oral warning 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-AVISO. Area treated with copper 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.

[Stamp]

STORAGE AND DISPOSAL

Residual 7/28/1
STORAGE: Keep product dry in closed container. Do not use empty container for any other purpose.

(insects)
DISPOSAL: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities.

FRUIT AND NUT CROPS

ALMONDS: Brown Rot - Apply 4 lbs. in pre-bloom and petal fall periods. Do not exceed 30 lbs. per acre. Shothole fungus - Apply 4 lbs. plus 2 gallons of an-80% dormant oil. Apply as a fall spray, in spring at bud swell and at petal fall.

California Only: To control Shothole Fungus - Apply 12 to 16 lbs. per acre as a dormant spray up to bud swell. To control Brown Rot and Shothole Fungus apply 12 to 16 lbs. per acre in pre-bloom and petal fall applications. Apply in a minimum of 40 gallons of water per acre by ground, or 20 gallons of water per acre by air.

APPLES: Fire Blight - Apply 1/4 lb. at full bloom, petal fall and late secondary bloom. Do not exceed 6 1/2 lbs. per acre.

APRICOT: Brown Rot - Apply 4 to 4 1/2 lbs. at red bud, early bloom and again at full bloom. Shothole Fungus - As a fall spray, apply 4 to 4 1/2 lbs. from November 15 to December 15. Do not apply after petal fall during the growing season or exceed 30 lbs. per acre.

California Only: To control Shothole Fungus apply 12 lbs. plus 6 gallons of a dormant flowable oil emulsion in a minimum of 20 gallons of water per acre by ground or 10 gallons of water per acre by air. Use as a dormant spray up to bud swell.

BLACKBERRY, RASPBERRY: Leaf and Cane Spot, Yellow Rust - Apply 1 3/4 to 1 7/8 lbs. when new laterals leaf out and again when flowers begin to open. After harvest, prune and remove old fruit wood and before fall rains apply 3 1/2 to 3 3/4 lbs. Do not exceed 5 3/4 lbs. per acre.

new (1/2)
BOYSENBERRY, LOGANBERRY: Leaf and Cane Spot, Yellow Rust - Apply when new laterals are leafing out, and repeat when flowers begin to open. A post harvest spray at 6 lbs. applied after pruning, but prior to the fall rains is of benefit in controlling above diseases. For all treatments do not apply more than 6 lbs. per acre.

CHERRY: Brown Rot, Leaf Spot - Apply 4 to 4 1/2 lbs. at pop corn, full bloom and again at petal fall. Do not apply after petal fall or exceed 25 lbs. per acre.

California Only: To control Brown Rot and Leaf Spot - Apply 7 1/2 lbs. in 20 gallons of water per acre by ground or 7 gallons of water per acre by air. Apply in pop corn, bloom and petal fall periods.

CITRUS: Brown Rot - Apply 1/2 to 1 1/2 lbs. as directed spray, applying 6 gallons per tree to the lower 3 to 4 feet of tree skirts and 2 to 4 gallons per tree to the trunk and soil or litter beneath the tree in November or December and again in January or February depending upon the amount of rain during this period. The addition of 1/2 to 1 1/2 lbs. of hydrated lime plus 4 oz. of sticker adjuvant may increase the effectiveness of this operation. Do not apply in areas where copper injury is known to occur or where fumigation with hydrogen cyanide gas is practiced. Greasy Spot, Melanose, Scab - Apply 1.25 - 2.0 lbs./100 gallons in pre-bloom and post-bloom spray. Higher rate used under conditions of greater disease severity. May be used in concentrate sprays at equivalent rates. For aerial sprays use a minimum of 9 lbs. in 10 - 15 gallons per acre.

GRAPES: Downy and Powdery Mildew, Black Rot - Use 3 1/8 lbs. plus 4 lbs. of hydrated lime in 125 gallons of water per acre. Spray thoroughly both upper and lower leaf surfaces. Begin when disease is first reported in the area and repeat at 7 to 10 day intervals or as required for effective control. For Black Rot control, apply when buds break and repeat when shoots are 10 inches long, when blossoms fall and berries reach size of BB shot.

PEACHES, NECTARINES: Peach Leaf Curl, Peach Blight - As a fall spray, apply 4 to 4 1/2 lbs. from November 14 to December 15. If this application cannot be made, make applications just before bud swell. Peach Blight, Brown Rot - Apply 4 to 4 1/2 lbs. at pink bud. Do not apply after pink bud during the growing season. Do not exceed 18 lbs. per acre on peaches or 25 lbs. per acre on nectarines.

California Only: Peaches, nectarines - To control Peach Blight and Leaf Curl, use 12 to 16 lbs. in a minimum of 40 gallons of water per acre by ground or a minimum of 20 gallons of water by air applications. Apply as a dormant spray up to bud swell.

PEAR: Fire Blight - Apply 1/4 lbs. at 10% bloom, repeat every 5 days until late bloom is over. If rain occurs during this period, shorten intervals to 3 days. If rain is forecast, and no spray was applied within the last 72 hours, apply immediately. Do not apply to d'Anjou or Comice varieties or exceed 5/8 lbs. per acre.

California Only: To control Pear Blight use 2 to 3 lbs. per acre in a minimum of 50 gallons of water per acre by ground or a minimum of 20 gallons of water per acre by air. Apply during bloom and other periods favorable to Blight infections.

PRUNES, PLUMS: Brown Rot - Apply 5/8 to 7/8 lbs. at pop corn and full bloom. Do not apply after petal fall or exceed 4 1/8 lbs. per acre. Use as a dormant spray up to bud swell.

California Only: Plums - Apply 6 lbs. in 40 gallons of water per acre by ground or in 10 gallons of water per acre by air. Apply in pre-blossom and petal fall periods.

WALNUT: Walnut Blight - Apply 2 3/8 to 3/4 lbs. to 1% pistillate bloom and again at 10 to 20% pistillate bloom. Do not exceed 45 lbs. per acre.

California Only: To control Walnut Blight apply 12 to 16 lbs. in sufficient water to cover one acre. By air, apply in a minimum of 20 gallons of water per acre. By ground, apply in a minimum of 40 gallons of water per acre. Apply in pre-bloom, bloom and post-bloom periods.

FIELD AND ROW CROPS

For disease control on the following crops, use 3 to 4 lbs. COXYSUL per acre (unless otherwise indicated) in 25 to 100 gallons of water per acre at 7 to 10 day intervals to protect new growth throughout the growing season.

BEANS: Downy and Mildew Spot.

BEETS: Blight, Leaf Spot - Apply 2 1/2 lbs. per acre. Begin before disease appear. Repeat at 7 to 14 day intervals during growing season.

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER: Downy Mildew - Apply 3 3/4 lbs. in 100 gallons of water.

CELERY: Bacterial Blight, Early Blight (Cercospora), Late Blight (Septoria).

CARROTS: Leaf Blight, Leaf Spot.

EGGPLANT, PEPPERS: Late Blight (Phytophthora).

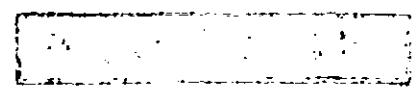
HOPS: Downy Mildew - as a crown treatment for early Downy Mildew control apply in the early spring.

LETTUCE: Downy Mildew.

MELONS, CUCUMBERS, SQUASH: Angular Leaf Spot. Anthracnose, Downy Mildew, Leaf Blight, Scab and aids in control of Bacteria Wilt.

ONIONS: California Only - To control Downy Mildew: Ground application - use 3 to 4 lbs. in 50 to 100 gallons of water per acre. Air application - use 7 lbs. in 5 gallons of water per acre. Apply when disease first appears and repeat at 7 to 10 day intervals to protect new growth throughout the growing season.

POTATOES: Early and Late Blight.



SPINACH: Downy Mildew - Apply 5 1/2 lbs. in 100 gallons of water per acre uniformly when conditions favoring the disease occurs.

STRAWBERRIES: Leaf Spot, Powdery Mildew - Apply 2 1/2 lbs. to 100 gallons of water. Apply thoroughly at 7 to 10 day intervals from July 25 to about September 12.

TOBACCO: Wildfire Bed Rot - Apply 2 1/2 lbs. beginning when plants are in 2-leaf state. Repeat at weekly intervals. Apply to foliage and soil.

TOMATOES: Early and Late Blight, Septoria Leaf Spot - Use 4 lbs. if Late Blight infection is severe, increase dosage up to 7 lbs. on large plants. For Bacterial Spot, (seed bed treatments only) use 5 to 6 lbs. per acre every 5 to 7 days after first leaves appear.

VEGETABLE SEEDLINGS: Damping-Off (cold frame, greenhouses, etc.) - Use 4 lbs. in 100 gallons of water of 2 oz. in 3 gallons of water. Agitate while spraying. Apply at 4 to 7 day intervals beginning when plants emerge. Spray plants and surrounding soil lightly but thoroughly. Do not use on cabbage and related seedlings.

ORNAMENTALS

AZALEAS: Bud Blight, Twig Blight - Apply 4 lbs. per 100 gallons of water. Begin when disease is first reported in area. Repeat at 7 to 10 day intervals or as required for control.

FLOWERING PLANTS: DAHLIAS (Botrytis Blight, Leaf Spots), NASTURTIUMS (Leaf Spots), PEONIES (Anthracnose, Botrytis Blight), ROSES (Black Spot, Leaf Spots, Rust) - Apply 2 1/2 lbs. per 100 gallons of water. Begin before diseases appear. For Black Spot on roses, begin when leaf buds swell in early spring. Repeat at 7 to 10 day intervals and after rains.

MAPLES: Tar Leaf Spot (Rhytisma), **OAK:** - White (Anthracnose, Gnomonia) - Apply 4 lbs. plus 2 lbs. hydrated lime per 100 gallons of water. Begin when disease is first reported in area. Repeat at 7 to 10 day intervals or as required for control.

PACHYSANDRA: Canker, Leaf Spot, Twig Blight (Volutella) - Apply 3 1/2 lbs. and 3 lbs. hydrated lime per 100 gallons of water. Begin when disease is first reported in area. Repeat at 7 to 10 day intervals or as required for control.

VINCA: Canker, Dieback - Apply 4 lbs. per 100 gallons of water. Begin when disease is first reported in area. Repeat at 7 to 10 day intervals or as required for control.

BEST AVAILABLE COPY

WARRANTY STATEMENT: AGTROL CHEMICAL PRODUCTS 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. 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 foreseeable to seller and buyer assumes all risk of any such use.

BEST AVAILABLE COPY