

1062  
PM 21

7001-65



ACCEPTED  
OCT 22 1985  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 7001-65

# AGRICULTURAL FUNGICIDE

|                                    |                       |
|------------------------------------|-----------------------|
| <b>ACTIVE INGREDIENT:</b>          | <b>BY WT.</b>         |
| *Cupric Hydroxide                  | 77%                   |
| <b>INERT INGREDIENTS:</b>          | 23%                   |
| *Copper expressed as elemental 50% | TOTAL 100%            |
| EPA Reg. No. 7001-65               | EPA Est. No. 829-FL-1 |

**CAUTION KEEP OUT OF REACH OF CHILDREN  
PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

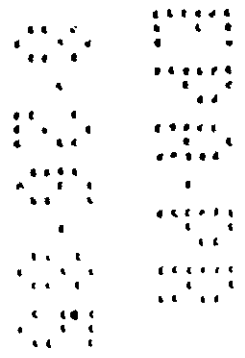
Harmful if swallowed. Avoid contact with skin and eyes. Avoid breathing dust or spray mist.  
**STATEMENT OF PRACTICAL TREATMENT**  
IF SWALLOWED call a physician immediately. IF ON SKIN wash immediately with soap and water. IF IN EYES flush eyes for at least 15 minutes. IF INHALED remove victim to fresh air. Get medical attention.

**ENVIRONMENTAL HAZARDS**  
This product is toxic to fish. Do not apply directly to water. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on the label.

**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 the spray has dried. 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. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written and oral warnings must include the following information: "CAUTION Area treated with Blue Shield on [date of application]. Do not enter without appropriate protective clothing until spray has dried. Required Protective Clothing: long-sleeved shirt and long-legged pants."

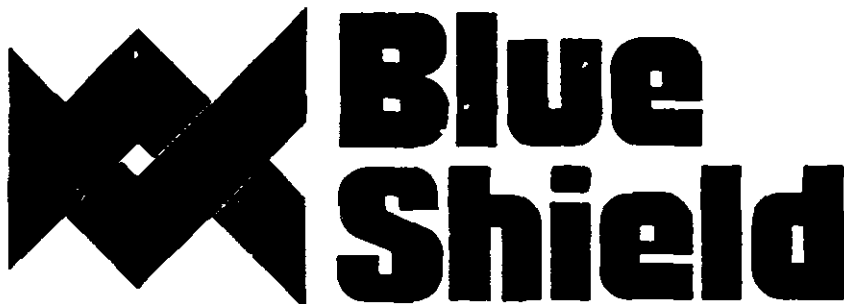
**STORAGE AND DISPOSAL**  
Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.  
Store in a cool, dry area.  
Completely empty bag into application equipment. Then dispose of 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

Use Blue Shield as noted below. Blue Shield is adaptable to spraying from all types of spray equipment. Depending on the equipment used and the specific crop, the volume applied per acre will differ. For dilute, high volume sprays: use from 25 to 100 gallons of water per acre for vegetable crops, 400 to 800 gallons per acre for fruit orchards and up to 1500 gallons per acre as may be required for large citrus groves. For concentrate ground sprays: apply from 5 to 20 gallons per acre for vegetable crops and 25 to 100 gallons per acre for fruit and nut crops. For aerial spraying: 3 to 15 gallons per acre. No additional surfactants are needed. Add Blue Shield slowly to a spray tank partially filled with water. Spreader-stickers, insecticides, nutrients, etc., should be added last. Blue Shield is compatible with commercially formulated spreader-stickers, oils and such insecticides as Carbaryl, Parathion, and other fungicides. Observe all cautions and limitations of all products used in mixtures.

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 per season.



### DIRECTIONS FOR USE

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

**ALFALFA:** *Cercospora* & *Leptosphaeria* Leaf Spots. Apply at 2 lbs. per acre 10-14 days before each harvest or earlier if disease threatens. Apply with ground or aerial equipment. Spray injury may occur with sensitive varieties such as Lahontan.

**ALMONDS, APRICOTS: DORMANT OR DELAYED DORMANT.** Use to control *Coryneum Blight* (Shot Hole) and *Bacterial Blast* (*Pseudomonas*). For dilute application apply 2-3 lbs. per 100 gallons of water as a full cover spray (300-400 GPA). For concentrate application apply 6-12 lbs. in 25-100 gals. of water per acre. For aerial application use 6-12 lbs. in 15-25 gals. of water per acre. Early application is more effective on *Blast*, later applications more effective on Shot Hole. **POPCORN TO FULL BLOOM** for control of Shot Hole and Brown Rot. Blossom Blight. For dilute application use 2 lbs. per 100 gals. of water as a full cover spray or 8 lbs. per acre as a low volume concentrate spray. For aerial application apply 8 lbs. per acre in 15-25 gals. of water per acre.

**APPLES:** *Anthraco*se, *Pseudomonas*, *European Canker*. Apply 3-4 lbs. before Fall rains in 100 gallons of water, using 300-400 gallons of water per acre. Use on yellow varieties may cause discoloration. *Fire Blight* Apply 2-4 lbs. per 100 gallons of water as full cover spray at after and green tip stages. Do not apply after green tips reach 1/2 inch because phytotoxic problems may occur on later applications.

**AVOCADOS:** Scab. Apply when bloom buds begin to swell at 2 lbs. per 100 gallons or 8-10 lbs. per acre depending on equipment. Continue application at monthly intervals for 5 to 6 applications. Follow recommendations of State Agricultural Experiment Stations.

**BANANAS:** Sigatoka. Apply by air at 2 lbs. per acre in 3 gallons of water containing 0.5 gallons agricultural oil. Apply on a 14 day schedule throughout the wet season. Apply at 21 day intervals during dry periods. Black Fitting. Apply at 4 lbs. per 100 gallons directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second weeks after emergence.

**BEANS:** *Bacterial Blight* (*Halo* & *Common*). For protective sprays apply first application when plants are six inches high. Apply on 7 to 14 day schedule depending on local conditions. Use 1 to 3 lbs. per acre depending on disease severity.

**BLACKBERRIES** (*Sandhills*, *Logans*, *Boyons*, *Martons*, *Auroras*, *Cascades*, *Chehalms*, & *Thornless Evergreen*); *Leaf* & *Cane Spot*. Apply delayed dormant spray after training in spring at 4 lbs. plus 1 quart superior-type oil per 100 gallons. Apply again in late spring at 2 lbs. plus 1 quart superior-type oil per 100 gallons. Make fall spray applications after harvest using 4 lbs. plus 1 quart superior-type oil per 100 gallons.

**BROCCOLI, BRUSSELS SPROUTS, CABBAGE & CAULIFLOWER:** *Downy Mildew*, *Peronospora*. Apply 0.5 to 1 lb. in a minimum of 25 GPA at 7 day intervals (CABBAGE UNL1). *Black Rot*, *Xanthomonas* & *Black Leaf Spot*, *Alternaria*. Apply at 2 lbs. per acre in a minimum of 25 GPA at 7-10 day intervals (Caution, a slight reddening of old-; leaves may occur on broccoli and a slight flecking of wrapper leaves may occur on cabbage at the two pound rate). For control of diseases of these crops begin application after transplants are set in the field, or shortly after emergence of field seeded crops or when conditions favor disease development.

**CACAO:** *Black Pod*. Begin applications at the start of the rainy season and continue while infection conditions persist. Sprays should be made as often as 14 to 21 days in high rainfall areas at varying rates from 2 to 4.5 lbs. per acre depending on disease severity. For drier areas where 2 to 4 applications are recommended during critical infection periods and at long intervals, use 6.5 to 8.5 lbs. per acre, according to disease incidence and planting density.

**CANTALOUPE, HONEYDEWS, MUSKMELONS:** *Downy Mildew*. Apply weekly at 2 lbs. per acre before disease appears.

**CARROTS:** *Carrot Blight*. When disease threatens, apply 2 lbs. per acre at 7 to 14 day intervals depending on disease severity.

**CELERY:** *Early*, *Late*, & *Bacterial Blights*. Apply as soon as plants are first established in the field at 2 lbs. per acre, then every 5 to 7 days depending on severity and weather. One or two quarts of a suitable agricultural spray oil per acre may be used as spreader-sticker.

**CHERRY:** *Dead Bud* (*Pseudomonas syringae*) & *Coryneum Blight*. Apply 6 lbs. plus 1 pint superior type oil per 100 gallons in October (before heavy fall rains) and again in January in orchards where the disease is severe a spray should also be applied in August. *Brown Rot*, *Blossom Blight*. For adequate control apply 2-3 lbs. per 100 gallons as a full cover spray at popcorn and full bloom.

**CITRUS:** *Melanose*, *Sub. Greasy Spot*, *Pink Pitting*. Apply as pre-bloom and post-bloom sprays. Use 0.75 to 1.5 lbs. Blue Shield per 100 gallons, depending on disease severity. May be used in concentrate sprays at equivalent rates. For aerial application, use 6 lbs. Blue Shield per 10 gallons per acre. *Brown Rot*. Use 0.5 to 1 lb. per 100 gallons as dilute spray or at equivalent rate as concentrate spray dependent on severity of disease. Begin application in fall before or just after first heavy rains. Apply to skirts of tree to a height of at least 4 feet. Apply also to bare ground one foot beyond skirt. (California only—in areas subject to copper injury, add 1/3 to 1 lb. of high quality lime per pound of Blue Shield).

**COFFEE:** *Iron Spot* (*Cercospora coffeicola*), *Pink Disease* (*Corticium salmonicolor*). Apply at 2 lbs. per acre as a concentrate or dilute spray. Begin treatment at start of wet season and continue at monthly intervals for three applications. *Leaf Rust* (*Brazili*). Apply at 3.5 to 5.5 lbs. per acre for average density plantations. High density plantations may require 7 to 8 lbs. per acre. Make application from September to March depending on altitude and local recommendations. Apply at 3 to 4 week intervals, depending on disease severity and rainfall conditions.

**CRANBERRY:** *Fruit Rot* (*Wisconsin only*). Apply at 8 lbs. per acre beginning late bloom (mid-July), followed by two additional applications at 10 to 14 day intervals.

**CUCUMBERS:** *Angular Leaf Spot*, *Downy Mildew*. Apply weekly once the plants begin to vine. Use 1.5 to 2 lbs. per acre.

**CURRENTS & GOOSEBERRY:** *Leaf Spot*. Make three applications at 10 lbs. per acre starting after harvest before bloom and after petal fall.

**EGGPLANT:** *Alternaria Blight*, *Anthraco*se, *Phomopsis*. Use 2 lbs. per acre before disease appears. Repeat at 7 to 10 day intervals (except California).

**FILBERTS:** *Bacterial Blight*. Apply 4 to 6 lbs. plus 1 pint superior-type oil per 100 gallons in late August or early September. In areas of heavy rainfall, apply another spray when three-fourths of the leaves have dropped.

**GRAPES:** *Black Rot*, *Powdery Mildew* & *Downy Mildew*. Apply 2 lbs. plus 2-6 lbs. hydrated lime per acre as dilute or concentrate spray. Use for the last one or two late summer applications following early season application of another fungicide. Follow State schedule for exact timing. (Caution, slight to severe foliage injury may occur on copper-sensitive varieties such as Concord, Delaware, Niagara, and Rosette).

**HOPS:** *Downy Mildew*. Apply 2 lbs. as a fungicide crown treatment (after pruning, but before training) as needed. After training, additional fungicide treatments are needed at about 10 day intervals. Discontinue use 2 weeks before harvest.

**LIVE OAK:** *Bell Moss* (*Texas only*). Apply at 6 lbs. per 100 gallons of water in spring after heavy rain, using 1.5 gallons of spray per foot of tree height. Make sure to wet tufts thoroughly. A second application may be required after 12 months.

**FLORIDA MANGO:** *Anthraco*se. Apply monthly after fruit set until harvest at 2 lbs. Blue Shield per 100 gallons or 8 to 10 lbs. per acre depending on equipment. Consult Extension Service for local recommendations.

**CALIFORNIA OLIVES:** *Peacock Spot*. Make first application at 2 to 3 lbs. per 100 gallons or at 8 to 12 lbs. per acre depending on equipment before winter rains fall. A second application in early spring should be made if disease is severe.

**ONION:** *Purple Blotch* & *Downy Mildew*. Apply 2 lbs. per acre when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals.

**PEAS:** *Powdery Mildew*. Begin spray treatment when disease symptoms first appear. Use at 1.5 to 3 lbs. per acre according to disease severity. Repeat applications at weekly intervals.

**PEACHES & NECTARINES:** *Leaf Curl* & *Coryneum Blight* (*Shot Hole*), *Dormant application* apply at leaf fall. **DILUTE:** Apply 2-4 lbs. per 100 gallons (maximum of 8 lbs. (acre). Use 16 lbs. per acre when rainfall is very heavy and disease pressure is high. **CONCENTRATE:** Apply at equivalent rates in approximately 100 gallons of water. May be used with agricultural spray oil. *Brown Rot*, *Blossom Blight*: Apply at 2 or 3 pounds per 100 acres as a full cover spray at pink bud. (Application at this time also affords some control of *Leaf Curl* and *Coryneum Blight*). *Bacterial Spot*. Dormant application, apply at 2 pounds per 100 gallons. Post bloom, apply 1/2 lb. per 100 gallons at first and second cover sprays. Do not spray later than three weeks prior to harvest. Do not use at rates above those recommended. (Caution: Slight defoliation and spotting of leaves may occur from use in cover sprays).

**PEANUTS:** *Cercospora Leaf Spot*. Begin spraying 40 to 45 days after planting or when disease symptoms appear. Make ground or aerial application at 1.5 to 3 lbs. per acre. For aerial application use 3 to 10 gallons of water. Continue applications at 10 to 14 day intervals. Use in sufficient water to get adequate coverage. For dust application, Blue Shield is to be blended by dealers and should be applied at rates equivalent to the above. Blue Shield may be blended with Talc and/or Sulfur to make a 3 to 10 percent dust.

**PEARS:** *Fire Blight* (*Western U.S.*). Apply at 0.25 lbs. per 100 gallons or 1 lb. per acre at 5 day intervals throughout bloom period. Caution: May cause fruit russet.

**PEPPERS:** *Bacterial Spot*. When disease threatens, apply 2 to 3 lbs. per acre (1 to 1.5 lbs. per 100 gal.) at 7 to 14 day intervals depending on disease severity.

**PHILODENDRON:** *Bacterial Leaf Spot*. Apply weekly before disease appears at 1.5 lbs. Blue Shield plus 1.5 lbs. of a coordination product of Maneb and Zinc (80% active compound) per 100 gallons of water.

**POTATOES:** *Early* & *Late Blight*. Apply at 7 to 10 day intervals starting when plants are six inches high until two weeks before harvest. Use 1 to 1.5 lbs. per acre in those locations where disease is light and up to 3 to 4 lbs. per acre where disease is more severe.

**PUMPKINS & SQUASH:** *Powdery Mildew*. Begin applications when plants are 3 weeks old or when disease symptoms appear. Use at weekly intervals at 1.5 to 3 lbs. per acre depending on disease severity.

**STRAWBERRIES:** *Leaf Spot* & *Leaf Blight*. Apply at 2-3 lbs. in 100 gallons per acre. Begin application when plants are established and continue on a weekly schedule throughout season. Discontinue applications if signs of phytotoxicity appear.

**SUGAR BEETS:** *Cercospora Leaf Spot*. Start spray when disease threatens and continue for 4 to 5 applications. Spray 10 to 14 days depending on weather conditions at 2 to 5 lbs. per acre depending on disease severity. Addition of suitable agricultural spray oils recommended at 2 quarts per acre.

**SYCAMORE:** *Anthraco*se. Make two applications using 2-3 lbs. per 100 gallons as a full cover spray. Make first application at bud crack and second application 7-14 days later at 10% leaf expansion.

**TOMATOES:** *Early Blight*. When disease threatens, apply 2-3 lbs. per acre at 7-10 day intervals. *Bacterial Speck*. Apply at 2 pounds per acre at 10-30 day intervals beginning when the disease threatens. Use more frequent applications when disease pressure is high. *Bacterial Spot*. When disease threatens, apply 2-4 pounds per acre at 7-10 day intervals, more frequently when disease is severe. May be combined with 1.5 to 2 pounds per acre maneb or coordination product of maneb and zinc (80% active compound). When maneb or the coordination product of zinc and maneb is used in combination, do not apply with a five days of harvest.

**WALNUT:** *Walnut Blight*. Apply first spray at early pre-bloom when twigs are partially expanded. Make three additional applications during bloom and early night stage at 7 to 10 day intervals. Additional applications may be necessary when frequent rainfall occurs. Dilute—apply 2 lbs. per 100 gallons water (minimum of 8 lbs. (acre). Concentrate—apply a minimum of 2 lbs. per acre in 50 to 100 gallons water per acre. One pint of summer oil emulsion may be added per 100 gallons of spray. Do not apply more than 12 lbs. per acre per application.

**WATERMELON:** *Anthraco*se & *Downy Mildew*. Apply as soon as plants become established and at weekly intervals thereafter. *Anthraco*se. Use at 2 lbs. per acre. *Downy Mildew*. Use at 1.5 to 3 pounds per acre, according to disease severity.

**WHEAT, BARLEY:** *Septoria Leaf Blotch*, *Heminthosporum Spot Blotch*. Apply 1.5 to 2 lbs. per acre. Make first application at early heading and follow with second application 10 days later.

**Net Weight** \_\_\_\_\_ AGC 536 (1981)

**CONDITIONS OF SALE** 1. Seller warrants that this product consists of the ingredients specified and is reasonably fit for use as directed on the label. 2. Other than an officer of Seller is authorized to make any other warranty, guarantee, or direction concerning this product. 3. Because the time, place, rate of application and other conditions of use are beyond Seller's control, Seller's liability from the handling, storage and use of this product is limited to replacement of product or refund of purchase price.

Manufactured For  
**J. R. SIMPLOT COMPANY**  
Agricultural Chemicals Department  
P.O. Box 196, Lathrop, CA 95330

