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ACCEPTED  
SEP 19 1981  
575-170

19-3-3  
FF IV



19-3-3  
FF IV

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FF IV



- prevents and controls turfgrass disease
- provides controlled release nitrogen feeding

Net Weight 40 1/2 lbs (18.37 kg)

XXXXX

XXXXX

For Professional Use Only

XXXXX

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19-3-3  
FF IV

**Directions for use**

For use on lawns, golf courses, and other areas where a high quality turf is desired. Apply to the lawn in the early morning or late afternoon. Do not apply if the lawn is wet or if rain is expected within 24 hours. Do not apply to areas where there is a possibility of runoff into water bodies.

**Use on cool season grasses**

Apply to cool season grasses such as Kentucky bluegrass, perennial ryegrass, and fescue. Apply in the early morning or late afternoon. Do not apply if the lawn is wet or if rain is expected within 24 hours. Do not apply to areas where there is a possibility of runoff into water bodies.

**Use on warm season grasses**

Apply to warm season grasses such as bermudagrass, zoysiagrass, and St. Augustine grass. Apply in the early morning or late afternoon. Do not apply if the lawn is wet or if rain is expected within 24 hours. Do not apply to areas where there is a possibility of runoff into water bodies.

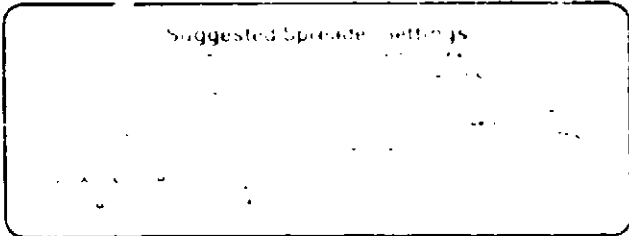
Do not apply to areas where there is a possibility of runoff into water bodies. Do not apply to areas where there is a possibility of runoff into water bodies.

**Use limitations**

Do not apply to areas where there is a possibility of runoff into water bodies. Do not apply to areas where there is a possibility of runoff into water bodies.

**Storage and disposal**

Store in a cool, dry place. Do not store in areas where there is a possibility of runoff into water bodies.



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# AGWAY CAPTAN 50WP

••• DIRECTIONS •••  
Read these entire directions and  
disclaimer. Use strictly in accordance  
with label cautions, and directions.

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#### DIRECTIONS FOR USE

Unless otherwise specified, rates are given in terms of CAPTAN 50WP per 100 gallons water for fruit and nut crops and ornamentals. For vegetable crops, rate is expressed as CAPTAN 50WP per acre in sufficient water to provide thorough coverage. Except as specified, begin applications before or at first sign of disease and repeat as needed to maintain control but observe use limitations. Unless otherwise specified, application can be made on the day of harvest.

Maximum permissible rate per acre per application as CAPTAN 50WP is given in parenthesis after crop claim.

#### FRUIT

**APPLES (eastern U.S.):** Primary scab, black rot (frog eye), Botrytis blossom end rot - 1 to 2 pounds at 5 to 7 day intervals as needed to maintain cover in prebloom, bloom, petal fall and first cover sprays. Use at 2 pound rate if conditions favor scab or if active scab can be found. Secondary scab, Brooks fruit spot, sooty blotch, fly speck, black rot, black pox, Botryosphaeria rot, bitter rot - 1 to 2 pounds at 10 to 14 day intervals in second and later cover sprays up to start of harvest (16 pounds). Powdery mildew - if powdery mildew is a problem add 1 to 3 pounds sulfur or 1/2 to 1/3 pound karathane to all pre-bloom and bloom sprays and 1/2 to 1/3 pound Karathane to all post bloom sprays until the foliage matures. Use 1/2 pound Karathane if interval between sprays is longer than 7 days. Special Sooty Blotch Sprays - August and September, 1 lb. plus 1

lb. 75% Zineb Wettable Powder fungicide per 100 gals. spray. Where lead arsenate has been used in the apple maggot cover sprays, use CAPTAN 50WP at 2 lbs. per 100 gals. spray. Do not use lead arsenate within 30 days of harvest. CAPTAN 50WP should not be used in combination with or closely following or in alternation with wettable sulphur products on sulfur sensitive varieties of apples such as Red Delicious, Stayman, Baldwin, King, etc. as severe foliage injury and deformation may occur.

**APRICOTS:** Brown rot (twig blight), jacket rot - use 2 pounds. Apply in red bud, bloom, 75% petal fall and cover stages (10 pounds).

**BLACKBERRY, DEWBERRY, RASPBERRY (eastern U.S.):** Anthracnose - Use 4 pounds per acre in sufficient water for thorough coverage in the pre-blossom (when new canes are 6 to 8 inches long) and first cover (right after petal fall) sprays. Raspberry Botrytis fruit rot - Use 2 pounds per 100 gallons water. Begin application in the first bloom. Make 2 or more repeat applications as field conditions warrant at 10 to 15 day intervals (4 pounds).

**CHERRIES (eastern U.S.):** Brown rot, leaf spot, Botrytis rot - Use 2 pounds in pre-bloom, bloom, petal fall, shuck cover and preharvest sprays. Application at 1 lb. per acre in the pre-bloom spray during the period of insect control is not recommended. For leaf spot, use 1/2 to 1/3 pound Karathane to all pre-bloom and bloom sprays and 1/2 to 1/3 pound Karathane to all post bloom sprays until the foliage matures. Use 1/2 pound Karathane if interval between sprays is longer than 7 days. Special Sooty Blotch Sprays - August and September, 1 lb. plus 1

petal fall, shuck and early cover sprays. If sulfur is added, CAPTAN may be reduced to 1 pound in these sprays. Post-harvest sprays of 1.5-2 pounds immediately after harvest for leaf spot. Repeat application 7 to 14 days (10 pounds).

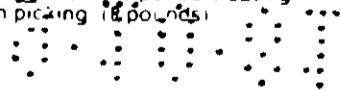
**GRAPES (eastern U.S.):** Black rot, downy mildew - 2 pounds per 100 gallons. Make first application just before bloom, pre-leaf-out, just after bloom and at 10 to 14 day intervals thereafter. Make 3 more applications depending upon the susceptibility of the grape variety. Dead Arm (current season infection) use 2 to 4 pounds per 100 gallons dilute spray. Apply 50 gallons per acre when shoots are 1 to 2 inch long. Repeat application when shoots are 4 to 6 inches long (10 pounds).

**PEACHES, NECTARINES:** Brown rot, scab - Use 2 pounds in full pink bloom, petal fall, shuck, cover and preharvest sprays. Applications at 3 to 4 day intervals may be necessary during bloom to control blossom blight. Repeat application at 7 to 14 day intervals as needed to maintain cover. Continue applications through harvest if conditions favor brown rot. If powdery mildew is a problem, add 3 pounds sulfur to the petal fall, shuck and early cover sprays. If sulfur is added, CAPTAN may be reduced to 1 pound in these sprays. Coryneum blight (peach blight), spirothecium - Use 2 pounds apply in pink bud, full bloom, petal fall and cover periods as necessary and as a post harvest spray but before leaves drop (10 pounds).

**PEARS (eastern U.S.):** Scab - Use 2 pounds in pre-blossom, petal fall and cover sprays. Repeat on applications at 7 to 14 day intervals under severe scab conditions. Russeting may be reduced on Bosc pears. Do not use on D'Anjou pears (15 pounds).

**PLUMS, PRUNES (eastern U.S.):** Brown rot - Use 2 pounds in full pink bloom and petal fall sprays. Repeat applications at 7 to 14 day intervals as needed to maintain cover. Continue applications through harvest if conditions favor brown rot. The addition of a neutral spreader has improved coverage (10 pounds).

**STRAWBERRIES:** Botrytis (gray mold), leaf spot - Apply 4 to 6 pounds per acre in sufficient water for thorough coverage. Begin applications when new growth starts in the spring and before fruit starts to form. Repeat at weekly intervals. Under conditions favorable to fruit rot continue applications through harvest period treating immediately after each picking (10 pounds).



#### VEGETABLES

**ASPARAGUS (Preplanting Root Dip):** 48 strains of root rot, rhizoma rot, peridermium rot, tip rot - Use 3 pounds per gallon in water. Dip roots of plants 10 to 15 per gallon for 10 to 15 minutes before planting and plant.

**BEANS, PEAS:** Damping-off, blight, mildew, fungus root rot. Use 10 to 12 pounds per acre as a broadcast treatment. Apply 1 to 4 inches of soil. Or use 5 to 6 pounds per acre in the row at time of planting.

**CANTALOUPE, CUCUMBER, PUMPKIN, SUMMER AND WINTER SQUASH, HONEYDEW, MELON, WATERMELON:** Angular leaf spot, anthracnose, downy mildew. Use 4 pounds per acre in sufficient water for thorough coverage. Begin applications at first signs of infection and repeat at 7 to 7 day intervals or as needed to maintain control. (7 pounds)

**CARROTS:** Cercospora blights, septoria leaf spot. Use 2 pounds per 100 gallons water and apply the equivalent of 4 pounds CAPTAN 50WP per acre. Apply at first sign of disease and repeat at 6 to 10 day intervals. (6 pounds)

**CELERY:** Damping-off, late blight (Septoria), Pink Rot (Sclerotinia). Use 2 pounds per 100 gallons water. Apply 450 gallons spray per acre to plant beds when all seeds have germinated. Repeat as necessary. (13 pounds) Late blight (Septoria), Pink Rot (Sclerotinia). Use 2 pounds per 100 gallons water. Apply 200 gallons spray per acre. Spraying should begin in the seedbed and be continued at 7 to 10 day intervals. (4 pounds)

**EGGPLANT:** Phomopsis blight, fruit rot, anthracnose. Use 2 pounds. Begin when plants emerge in plant bed or when disease first appears in field. Repeat at 3 to 7 day intervals through growing

season. Damping-off. Use 10 to 12 pounds per acre in sufficient water for thorough coverage. Begin when all seeds have germinated. Repeat at 10 day intervals. (6 pounds as foliar spray, 12 pounds in plant beds before transplanting)

**LETTUCE, SPINACH:** Downy Mildew. 2 lbs per 100 gals spray. Apply 100 to 200 gals of spray per acre. Apply at first signs of disease. Repeat at 7 to 10 day intervals as necessary to maintain control.

**ONIONS (Green and Bulb):** Downy mildew, purple blotch. Use 2 pounds. Apply at first sign of infection and repeat at 7 to 10 day intervals. (3 pounds)

**PEPPERS, PIMENTOS:** Anthracnose, cercospora (frog-eye leaf spot and stem end rot). Use 3 pounds. Apply at 3 to 7 day intervals throughout the growing season. (6 pounds) Damping-off. Use 2 pounds. Plant bed treatment. Begin when all seeds have germinated. Repeat at 10 day intervals. (12 pounds)

**TOMATO:** Anthracnose, gray leaf spot, septoria leaf spot. Use 4 to 6 pounds per acre in sufficient water for thorough coverage. Under severe infection conditions use 6 to 7 pounds per acre in sufficient water for thorough coverage. Apply at first signs of infection and repeat at 5 to 7 day intervals or as needed to maintain control. (10 pounds)

### **SPECIAL USES:**

**PREPLANTING SOIL TREATMENT:** For control of damping-off and root rots for crops listed below. Apply spray broadcast to soil surface as a preplanting application and cultivate into upper 2 to 4 inches of soil or apply to furrow over the seed when specified. (14,500 linear feet of row equals 1 acre.) Close and pack the furrow in usual manner. Apply dosage rate in sufficient water for thorough soil coverage unless otherwise specified.

**BEANS, PEAS:** Use 10 to 12 pounds broadcast or 5 to 6 pounds in furrow. (12 pounds)

**BEETS:** Use 2 pounds per 100 gallons water. 15 gallons spray per 1,000 square feet. (13 pounds)

**BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, COLLARDS, KALE, KOHLRABI, MUSTARD, RUTABAGAS, TURNIPS:** Damping-off only. Use 15 pounds broadcast. (28 pounds)

**CANTALOUPES, CUCUMBERS, HONEYDEW MELONS, PUMPKINS, SQUASH (SUMMER AND WINTER), WATERMELONS:** Use 2 pounds per 100 gallons water. 200 gallons spray per acre broadcast. (12 pounds)

**SPINACH:** (Direct seeded) Use 5 to 7 pounds in 30 gallons water in furrow. (7 pounds)

**POST HARVEST DIP:** For control of various molds and storage rots (Botrytis, Gloeosporium, Rhizopus). Use as a post harvest dip or wash on the following fruits and vegetables: Apples, Apricots, Cante-

loupes, Cherries, Cucumbers, Grapefruit, Lemons, Limes, Mangoes, Nectarines, Onions (Green and Bulb), Oranges, Peaches, Pears, Potatoes, Tangerines, Tangerines. Use 2 pounds. Apply as a spray or in dip tank. When used as a dip, recharge wash solution periodically when tank volume is reduced by 25%. Bring water back to volume and add 1 pound for each 25 gallons added. At end of every 8 hour shift, empty tank, flush and rinse with fresh dilution. Do not allow dip tank solution to stand over night. Maintain continuous agitation during dipping operation. CAUTION: Do not feed mango or citrus by-products to dairy animals or animals being finished for slaughter.

**PACKING BOX TREATMENT:** For reduction of storage rots and molds (Rhizopus, Botrytis, Gloeosporium) treat packing boxes with a solution of 2 pounds per 100 gallons water. Spray boxes thoroughly or use as a dip. Keep solution agitated continuously. Drain, flush and recharge the dip tank with new solution after each 8 hour shift.

### **ORNAMENTALS:**

**AZALEAS:** Damping-off of cuttings. Use 4 pounds. Dip cuttings before bedding. Petal blight. Use 2 pounds. Apply to soil area around plants and spray flowers just before bloom. Repeat at 7 to 14 day intervals through bloom.

**BEGONIAS (TUBEROUS):** Damping-off, tuber rot. Use 4 pounds. Dip tubers 30 minutes, drain and plant.