



# CAPTAN 50W

A FUNGICIDE FOR  
PLANT DISEASE CONTROL

## ACTIVE INGREDIENTS:

## INERT INGREDIENTS

BY WT

TOTAL

100.0

EPA Reg. No. 7001-260  
EPA Est. No. 7001-CA-1

## KEEP OUT OF REACH OF CHILDREN DANGER

### HAZARDS TO HUMANS (& DOMESTIC ANIMALS)

On the basis of the results of the tests conducted, the following information is being furnished to you:

For the purpose of this label, the following information is being furnished to you:

#### STATEMENT OF ANALYSIS OF THE ACTIVE INGREDIENT

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#### DIRECTIONS FOR USE

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed with drift or spray.

Pesticide sprays, mixtures, and concentrates should be disposed of in accordance with the following instructions:

Do not use this product in any way not specified on this label.

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#### FRUIT & NUT CROPS

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# CAPTAN 50W

## A FUNGICIDE FOR PLANT DISEASE CONTROL

### ACTIVE INGREDIENTS:

Captan 50W is a microfine wettable powder for use in water as a spray for the control of certain

### INERT INGREDIENTS:

TOTAL

### BY WT.

50.0%

100.0%

EPA Reg. No. 7001-260

EPA Est. No. 7001-CA-1

## KEEP OUT OF REACH OF CHILDREN DANGER

### HAZARDS TO HUMANS (& DOMESTIC ANIMALS)

Corrosive Causes eye damage. Do not get in eyes, on skin or clothing. Wear goggles or face shield when handling. Harmful if swallowed. Avoid breathing vapors.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Do not discharge in lakes, streams, ponds or public water unless in accordance with National Pollution Discharge Elimination System Permit. For guidance, contact your regional office of EPA. Do not apply when weather conditions favor drift from area treated.

### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED - May be harmful if swallowed.

IF INHALED - Avoid breathing vapors or dust.

IF IN EYES - Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

IF ON SKIN - Wash skin with soap and water.

**PHYSICAL OR CHEMICAL HAZARDS:** This pesticide is not flammable. It is not a severe irritant.

### DIRECTIONS FOR USE

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

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide, spray mixture or rinsate that cannot be used or chemical reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

Dispose of in an incinerator or landfill approved for pesticides or containers in a safe place.

Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning.

CAPTAN 50W is a microfine wettable powder for use in water as a spray for the control of certain fungus diseases of fruit, vegetables and ornamental crops, and as a seed treatment for the control of certain seed rots and damping-off diseases.

### OBSERVE THE FOLLOWING USE PRECAUTIONS

Read all precautions and directions for use before using. Do not use in a manner inconsistent with the labeling.

In order that pesticide residues on food are safe for consumption, use only at recommended rates and intervals, and do not harvest until the specified waiting period has elapsed. Do not apply to a food crop less than the specified waiting period before harvest.

Consult State Agricultural Experiment Station or local Agricultural Extension Office for information as to the most appropriate use of this pesticide on a particular crop.

**COMPATIBILITY AND PLANT SAFETY:** CAPTAN 50W can be mixed with many other pesticides and fungicides at recommended dosage rates with most commonly used fungicides and insecticides with the exception of organophosphorus compounds. As a general rule, CAPTAN 50W should not be mixed with Bordeaux mixture, lime sulfur, or other copper fungicides. CAPTAN 50W is compatible with most other fungicides, insecticides, and plant growth regulators. The safe interval between CAPTAN 50W and other pesticides should be observed. The use of sprayers and other equipment should be such that the spray is applied uniformly to the foliage and fruit. CAPTAN 50W should not be used on plants that are sensitive to copper. CAPTAN 50W should not be used on plants that are sensitive to captan.

may cause a necrotic spotting of tender, immature leaves of certain varieties of apples, peaches, plums and cherries. The type of injury is most likely to occur in the early covers sprays during long periods of warm, humid weather. To avoid hazard of leaf spotting under such conditions, use CAPTAN 50W or other spray materials at lowest recommended rates and avoid drenching trees.

### DIRECTIONS FOR USE

Applications can be made by hand or ground power equipment (including concentrate and semi-concentrate equipment). The recommended amount of this material into nearly filled spray tank. Add balance of water. Agitation during filling and spraying operations. Do not allow mixture to stand. Do not mix with emulsifiable liquids or wettable powders unless previous experience has proven them to be physically compatible and safe to plants. (Read compatibility and plant safety information given under Use Precautions.)

### RECOMMENDATIONS

Unless otherwise specified, rates are given in terms of CAPTAN 50W per 100 gallons of water for fruit and nut crops and ornamentals. For vegetable crops, rates are expressed as CAPTAN 50W 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, applications can be made on the day of harvest.

Maximum permissible rate per acre per application as CAPTAN 50W is given in parenthesis.

### FRUIT & NUT CROPS

**IMPORTANT:** Read label carefully. Although most of the directions on this label may be followed nationwide, a few are limited to either the Eastern or Western U.S. Follow those directions for your growing area where specified.

**Almonds:** Brown Rot, Twig & Blossom Blight, Stothole, Scab, Leaf Blight. Use 2 to 3 pounds. Apply at popcorn bloom and petal fall. Hulls may be fed to livestock (32 lbs).

Subsequent applications may be made up to 12 days of harvest in accordance with pest infestations and State Agricultural Extension Service recommendations, provided the hulls are not fed to dairy animals or animals being finished for slaughter (32 lbs).

**Apples (Eastern U.S.):** Primary Scab, Black Rot (Frog-eye), Botrytis Blossom End Rot. Use 1-1/2 to 2 pounds at 5 to 7 day intervals as needed to maintain cover in prebloom, bloom and 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, Botryosphera Rot, Bitter Rot. Use 1 to 2 pounds at 10 to 14 day intervals in second and later cover sprays up to start of harvest (16 lbs). Powdery Mildew. If powdery mildew is a problem add 1-1/2 to 3 pounds sulfur or 1/4 to 1/2 pound Karathane to all post bloom sprays until the foliage matures. Use 1/2 pound Karathane at interval between sprays is longer than 7 days. **CAUTION:** Do not use CAPTAN in combination with or closely following or in alternation with wettable sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Staygreen. Prolonged use of sulfur may cause severe injury and defoliation may occur.

**Apples (Western U.S.):** Apple Scab. In preblossom sprays, use 2 lbs. per 100 gallons of water in high volume application. In low volume sprays apply 16 pounds per acre. In mid-summer, the dosage may be reduced to 1 pound per 100 gallons in high volume application or 10 pounds per acre in low volume sprays. Bull's Eye Rot, Botrytis Rot (Pacific Northwest). Use 2 pounds per 100 gallons of spray. Make 1 or 2 applications with late cover sprays and 1 to 2 preharvest applications (16 lbs).

**Apricots:** Brown Rot, Leaf Spot, Botrytis. Use 2 pounds. Apply in red bud bloom, 75% petal fall, shuck cover and preharvest sprays (16 lbs).

**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 spray after petal fall sprays. Raspberry (Botrytis Fruit Rot) use 2 pounds per 100 gallons of water. Begin application in the first bloom. Make 2 or more repeat applications (as indicated) at 10 to 14 day intervals (16 lbs).

**Raspberries (Western U.S.):** Anthracnose, Botrytis Spur Slight. Apply 2 pounds. Apply at bloom or when new shoots are 8 to 10 inches long. Repeat 2 weeks later, apply fall spray after canes are removed. Leaf Rot. Apply 2 pounds. Apply 3 to 5 days before harvest starts. Repeat at mid-harvest and 8 to 10 days later (6 lbs).

**Blueberries (Western U.S.):** Botrytis Gray Mold or Berry Rot, Mummy Berry. Use 2 pounds in sufficient water for thorough coverage. Begin at mid bloom, repeat at 7 to 10 day intervals until harvest (16 lbs).

**Cherries (Eastern U.S.):** Brown Rot, Leaf Spot, Botrytis Rot. Use 2 pounds in pre-bloom, 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 10 day intervals as needed to maintain cover up to start of harvest. 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. Post harvest sprays - apply 2 pounds immediately after harvest for storage rot. Repeat application in 10 to 14 days (20 lbs).

**Cherries (Western U.S.):** Brown Rot, Blossom Blight, Brown Rot, Fruit Leaf Spot. Use 2 pounds in prebloom, bloom, petal fall, shuck cover and preharvest spray (20 lbs).

**Citrus (Grapefruit, Lemons, Oranges, Tangelos, Tangerines):** Brown Rot (Phytophthora). Use 2 to 4 pounds. Apply to skirts of trees before winter rains. Wet tree thoroughly to height of 1 to 4 feet. Repeat 10 to 12 weeks later (20 lbs). Melanose Scab (Oranges & Tangelos). Use 2 pounds plus spray sticker. Apply as necessary from 2-3 petal fall until fruit is 1-2 inch in diameter. Do not apply after fruit size exceeds 1-2 inch in diameter. Do not feed raw by-products to livestock (16 lbs).

**Cranberries (Western U.S.):** Blight Rot (Acanthomyces, vaccinii), Guignardia Blight. Apply 6 pounds per acre in 300 gallons of water in early spring applications as required. Storage rot. Apply 6 pounds per acre in 300 gallons of water during the first week of June, before leaf fall and early and late August for storage rots (7 lbs).

secret spotting of tender, immature leaves of certain varieties of apples, peaches, cherries. That type of injury is most likely to occur in the early cover sprays during warm, cloudy, humid weather. To avoid hazard of leaf spotting under such conditions, CAPTAN and other spray materials at lowest recommended rates and avoid

**FOR USE**  
can be made by aircraft or ground power equipment including concentrate and dilute equipment. Pour recommended amount of this material into nearly filled spray nozzle of water. Maintain agitation during filling and spraying operations. Do not allow to dry. Do not combine with emulsifiable liquids or wettable powders unless previously proven them to be physically compatible and safe to plants. (Read carefully for information given under Use Precautions.)

**APPLICATIONS**  
The specified rates are given in terms of CAPTAN 50W per 100 gallons of water at crops and ornamentals. For vegetable crops, rates are expressed as CAPTAN in sufficient water to provide thorough coverage. Except as specified, begin application at first sign of disease and repeat as needed to maintain control but observe any otherwise specified applications can be made on the day of harvest.

possible rate per acre per applications as CAPTAN 50W is given in parenthesis.

**FRUIT CROPS**  
Read label carefully. Although most of the directions on this label may be followed, few are limited to either the Eastern or Western US. Follow those directions for area where specified.

**Apple (Twigs & Blossom Blight, Scab, Leaf Blight)** Use 2 to 3 pounds. Apply from bloom and petal fall. Halls may be fed to livestock (32 lbs). Applications may be made up to 12 days of harvest in accordance with pest infestations. Cultural Extension Service recommendations, provided the hulls are not fed to dairy animals being finished for slaughter (32 lbs).

**Eastern U.S.:** Primary Scab, Black Rot (Frogeye), Botrytis Blossom End Rot. Use 2 pounds at 5 to 7 day intervals as needed to maintain cover in prebloom, bloom 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 Powdery Rot, Bitter Rot. Use 1 to 2 pounds at 10 to 14 day intervals in second and later up to start of harvest (16 lbs). Powdery Mildew. If powdery mildew is a problem, 3 pounds sulfur or 1.4 to 1.2 pound Karathane to all post bloom sprays until the end of harvest. Use 1/2 pound Karathane if interval between sprays is longer than 7 days. Do not use CAPTAN in combination with or closely following or in alternation with products on sulfur sensitive varieties of apples such as Red Delicious, Staygreen, etc. as severe injury and defoliation may occur.

**Western U.S.:** Apple Scab. In preblossom sprays, use 2 lbs. per 100 gallons of water in application. In low volume sprays apply 16 pounds per acre. In mid-summer, the rate is reduced to 1 pound per 100 gallons in high volume application or 10 pounds per acre sprays. Bull's Eye Rot, Botrytis Rot (Pacific Northwest). Use 2 pounds per 100 gallons. Make 1 or 2 applications with late cover sprays and 1 to 2 preharvest applications.

**Cherry (Twigs & Blossom Blight)** Use 2 to 3 pounds. Apply from bloom and petal fall.

**Dewberry, Raspberry (Eastern U.S.): Anthracnose** Use 4 pounds per acre in preblossom coverage in the pre-blossom (when new canes are 6 to 8 inches long) cover (right after petal fall) sprays. Raspberry (Botrytis Fruit Rot) use 2 pounds per acre. Begin application in the first bloom. Make 2 or more repeat applications (as warranted) at 10 to 15 day intervals (16 lbs).

**(Western U.S.): Anthracnose, Botrytis Spur Slight** Apply 2 pounds. Apply at bloom and petal fall. Repeat 2 weeks later, apply fall spray after canes are 8 to 10 inches long. Repeat 2 weeks later, apply fall spray after canes are 8 to 10 inches long. Apply 2 to 3 pounds. Apply 3 to 5 days before harvest starts. Repeat at mid-harvest (16 lbs).

**Western U.S.: Botrytis Gray Mold or Berry Rot, Mummy Berry** Use 2 pounds in preblossom coverage. Begin at mid-bloom, repeat at 7 to 10 day intervals.

**Eastern U.S.: Brown Rot, Leaf Spot, Botrytis Rot** Use 2 pounds in pre bloom, bloom and preharvest sprays. Applications at 3 to 4 day intervals may be necessary to control blossom blight. Repeat application at 7 to 10 day intervals to maintain cover up to start of harvest. If powdery mildew is a problem add 3 pounds sulfur or 1.4 to 1.2 pound Karathane to all post bloom sprays until the end of harvest. Use 1/2 pound Karathane if interval between sprays is longer than 7 days. Do not use CAPTAN in combination with or closely following or in alternation with products on sulfur sensitive varieties of apples such as Red Delicious, Staygreen, etc. as severe injury and defoliation may occur.

**Western U.S.: Brown Rot, Blossom Blight, Brown Rot, Fruit Leaf Spot** Use 2 pounds in pre bloom, bloom and preharvest sprays. Applications at 3 to 4 day intervals may be necessary to control blossom blight. Repeat application at 7 to 10 day intervals to maintain cover up to start of harvest. If powdery mildew is a problem add 3 pounds sulfur or 1.4 to 1.2 pound Karathane to all post bloom sprays until the end of harvest. Use 1/2 pound Karathane if interval between sprays is longer than 7 days. Do not use CAPTAN in combination with or closely following or in alternation with products on sulfur sensitive varieties of apples such as Red Delicious, Staygreen, etc. as severe injury and defoliation may occur.

**Citrusfruit, Lemons, Oranges, Tangelos, Tangerines:** Brown Rot (Phytophthora) Use 2 pounds. Apply to skirts of trees before winter rains. Wet tree thoroughly to height of 10 to 12 weeks later (20 lbs). Melon Scab (Oranges & Tangelos) Use 2 pounds. Apply as necessary from 2-3 petal fall until fruit is 1-2 inch in diameter. After fruit size exceeds 1/2 inch in diameter. Do not feed raw by products to livestock.

**Western U.S.: Blotch Rot (Acanthosphaeria varicosa), Guignard's Blight** Apply 2 pounds per acre in 300 gallons of water in early spring applications as required. Storage Rot. Apply 6 pounds per acre in 300 gallons of water during the first week of storage. Repeat in early and late August for storage lots (12 lbs).

**Grapes (Eastern U.S.): Black Rot, Downy Mildew** Use 2 pounds per 100 gallons, make first application just before bloom, repeat just after bloom and at 10 to 14 day intervals for 1 to 3 more applications depending upon the susceptibility of the grape variety. Dead Arm (current season) Use 2 to 4 pounds per 100 gallons dilute spray. Apply 50 gallons per acre when shoots are 1 to 2 inches long. Repeat application when shoots are 4 to 6 inches long (10 lbs).

**Grapes (California): Bunch Rot (Botrytis)** Apply 2 pounds per acre. Make 2 applications before bloom and 1 just after bloom. Repeat periodically making 3 cover applications before the bunches close. Dead Arm (current season infection) Apply 4 pounds per 100 gallons spray. Apply 3 to 6 pounds per acre by ground equipment. Apply 4 pounds in 7 to 20 gallons of water per acre by aircraft. Apply first spray when green tissue begins to show but before shoots are 1 inch long. Apply a second spray when shoots are 6 to 8 inches long (10 lbs).

**Mangoes:** Cercospora Leaf Spot or Blotch. Use 2 pounds. Begin at first sign of disease and repeat at weekly intervals to maintain control (20 lbs).

**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 Shot-hole). Use 2 pounds in full pink bloom, petal fall and cover periods as necessary and as a post harvest spray. Repeat at weekly intervals to maintain control (10 lbs).

**Peaches (Nursery Stock) (California):** Preventative preplant dip treatment for Crown Gall. Use 4 pounds CAPTAN 50WP plus 32 pints diluted sodium hypochlorite (5.25% household bleach) per 100 gallons water. Wash nursery trees to remove soil from roots. Cut off all dormant buds and suckers in crown area and prune root system if necessary. Submerge the entire dormant tree for 4 minutes. Recharge dip during operation as necessary to maintain a proper concentration of 200 ppm chlorine. Check the concentration frequently using a chlorine test kit.

**Pears (Eastern U.S.): Scab** Use 2 pounds in preblossom, petal fall and cover sprays. Repeat application at 7 to 14 day intervals under severe scab conditions. Russeting may be reduced on Bosc pears. Do not use on D'Anjou pears (16 lbs).

**Pears (Western U.S. - except Pacific Northwest): Pear Scab** Use 2 pounds. Apply during early finger stage, petal fall and first cover sprays. Under severe scab infection conditions additional treatments may be necessary. Russeting may be reduced on Bosc pears. Do not use on D'Anjou pears (16 lbs).

**Pineapples: Heart Rot (Phytophthora Parasitica)** Use 10 pounds. Dip slips into solution just prior to planting. Root Rot (Phytophthora cinnamomi) Use 4 pounds. Spray immediately after planting. Repeat at 2 week intervals (20 lbs). Post harvest dip. Storage & Transit Rot. Use 10 pounds. Dip whole harvested fruit.

**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 lbs).

**Plums, Prunes (Western U.S.): Brown Rot** Use 2 pounds. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant. Prune Russet Scab (Lacy Scab) in California. Apply 2 pounds per 100 gallons water (8 lbs per acre). Apply at full bloom (10 lbs).

**Quince: Brown Rot, Scab** Use 2 pounds. Begin when disease threatens. Repeat at 7 to 10 day intervals. Do not apply within 7 days of harvest (10 lbs).

**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 (8 lbs).

**VEGETABLE CROPS**

**Asparagus (Preplanting Root Dip): Botrytis, Root Rot, Phoma Rot, Penicillium Rot, Fusarium** Use 3 pounds per 100 gallons water (4 tablespoons per gallon). Dip root sections for 1 minute and plant.

**Beans, Peas: Damping Off (Beauveria, Fusarium, Rhizoctonia)** Use 10 to 12 pounds per acre as a broadcast treatment. Working into top 3 to 4 inches of soil. Use 5 to 6 pounds per acre in the row at time of planting.

**Cantaloupe, Cucumber, Pumpkin, Summer & Winter Squash, Honeydew Melons, Watermelons:** Angular Leaf Spot, Anthracnose. Use 4 pounds per acre in sufficient water for thorough coverage. Begin applications at first signs of infection and repeat at 5 to 7 day intervals or as needed to maintain control (7.6 lbs).

**Carrots: Cercospora Blight, 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 5 to 10 day intervals (16 lbs).

**Celery: Damping Off, Pink Rot** 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 lbs). 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 (14 lbs).

**Eggplant: Anthracnose Blight, Fruit Rot, Anthracnose** Use 2 pounds. Begin when plants emerge in plant bed, 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 (16 lbs as foliar spray 12 lbs in plant beds before transplanting).

**Onions (Green) (California): Downy Mildew** Use 3 pounds per acre in 5 to 20 gallons water per acre by 1/2 inch 20 to 100 gallons water per acre by ground equipment. Apply at first sign of infection and repeat at 5 to 7 day intervals as needed to maintain disease control (3 lbs).

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**Onions (Green & Bulb):** Downy Mildew, Purple Blotch. Use 2 pounds. Apply at first sign of infection and repeat at 7 to 10 day intervals (3 lbs.)

**Peppers, Pimientos:** Anthracnose, Cercospora (Frogeye Leaf Spot and Stem End Rot). Use 3 pounds. Apply at 3 to 7 day intervals throughout the growing season. (6 lbs.) Damping-off. Use 2 pounds. Plant bed treatment. Begin when all seeds have germinated. Repeat at 10 day intervals (12 lbs.)

**Tomatoes:** Anthracnose, Gray Leaf Spot, Septoria Leaf Spot. Use 4 to 6 pounds per acre in sufficient water for thorough coverage. Under severe conditions use 6 to 8 pounds per acre in sufficient water for thorough coverage. Apply at first sign of infection and repeat at 5 to 7 day intervals or as needed to maintain control (10 lbs.)

#### SPECIAL USES

**Preplanting Soil Treatment:** For control of Damping-Off and Root Rots for the crops listed below, apply spray broadcast to soil surface as a preplanting application and cultivate into upper 3 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 lbs.)

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

**Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Kale, Kohlrabi, Mustard, Rutabagas, Turnips:** Damping-Off only. Use 15 pounds broadcast (28 lbs.)

**Cantaloupes, Cucumbers, Honeydew Melons, Pumpkins, Squash (Summer & Winter), Watermelons:** Use 2 pounds per 100 gallons water, 600 gallons spray per acre broadcast (12 lbs.)

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

**Post Harvest Dip:** For control of various molds and storage rots (*Botrytis*, *Cleosporium*, *Rhizopus*). Use as a post harvest dip or wash on the following fruits and vegetables: Apples, Apricots, Cantaloupes, Cherries, Cucumbers, Grapefruit, Lemons, Limes, Mangoes, Nectarines, Onions (Green & Bulb), Oranges, Peaches, Pears, Potatoes, Tangelos, Tangerines. Use 2-1/2 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 charge with fresh dilution. Do not allow dip tank solution to stand overnight. 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*, *Cleosporium*) 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.

**Begonia (Tuberous):** Damping-Off, Tuber Rot. Use 4 pounds. Dip tubers 30 minutes, drain and plant.

**Camellias:** Petal Blight. Use 1 pound. Apply to drench soil around plants beginning when flowers start to open. Repeat at 7 to 10 day intervals through bloom.

**Carnations:** *Alternaria* Leaf Spot, Rust. Use 2 pounds. Begin at first sign of disease. Repeat at 7 to 10 day intervals. Shorten intervals during frequent rains and heavy dews. Damping-Off of cuttings. Use 4 pounds. Dip cuttings before bedding.

**Chrysanthemum:** *Botrytis* Flower Blight, *Septoria* Leaf Spot. Use 2 pounds. Apply at first sign of disease. Repeat at 7 to 10 day intervals. Damping-Off of cuttings. Use 4 pounds. Dip cuttings before bedding.

**Dichondra (California only):** White Mold (*Sclerotium Rolfsii*). Use 2 pounds. Apply 1 gallon spray per 10 square feet. Make 2 to 3 applications at 7 day intervals.

**Gladiolus (Corms):** Corm Rot & Decay, Damping-Off. Use 1/2 to 1 1/2 pounds per 10 gallons. Dip corms 20 to 30 minutes. Drain and plant.

**Grasses (Ornamental in Non-Pastured Areas Only):** Leaf Spot, Damping-Off, Brown Patch, Melting Out, Seeding Blights, and Brown Spot on St. Augustine Grass. Use 2 pounds. Apply 10 gallons spray per 1,000 square feet. Begin when growth starts in spring. Repeat at 7 to 14 day intervals throughout season. Do not graze treated areas or feed clippings to livestock.

**Grasses (Lawn Seedbeds):** Damping-Off and other soil borne diseases. Use 1/4 to 1/3 pound per 1,000 square feet or 2 pounds in 100 gallons water using 15 gallons spray per 1,000 square feet. Cultivate into upper 3 to 4 inches before planting.

**Roses:** Black Spot, *Botrytis* Blossom Blight. Use 2 pounds. Begin at first growth or first sign of disease. Repeat at 7 to 14 day intervals and more frequently during frequent rains and heavy dews.

**Soil & Greenhouse Bench Treatment:** Preplanting for Damping-Off and Root Rot diseases on seedlings or transplants of roses (and other shrubs, trees, flowers). Lawn seedbeds, vegetables (such as beans, celery, crucifers, eggplant, peas, peppers, tomatoes). Use 2 pounds per 100 gallons water at rate of 13 gallons per 1,000 square feet. Cultivate into upper 3 to 4 inches of soil before planting.

799: 5-30

## Occidental Chemical Company

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