



# ORTHO

## SAMPLE LABEL

# ORTHO<sup>®</sup> 50 Wettable (50% CAPTAN)

### (FUNGICIDE)

Active Ingredient	By Wt.
*Captan .....	50%
Inert Ingredients .....	50%
*N-[(trichloromethyl)thio]-4-cyclohexene-1,2-dicarboximide	

Not licensed for use or export outside of the United States, its territories and possessions, Canada or Mexico.



### READ THE LABEL

KEEP OUT OF REACH OF CHILDREN

**CAUTION:** Avoid inhalation of dust or spray mist. Avoid contact with skin.

**Note to Physicians:** Emergency Information - call (415) 233-3737.

Do not store or transport near feed or food. Foliage injury may at times occur to Red Delicious, Winesap and other sensitive varieties of apples in early season sprays. **Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.**

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

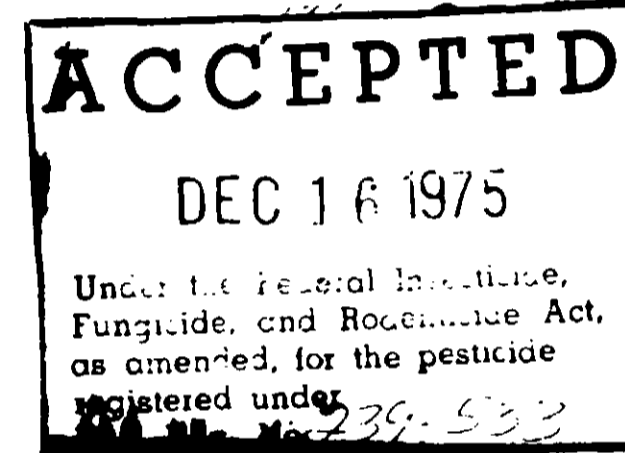
**STORE IN COOL, DRY PLACE**

**PROTECT FROM EXCESSIVE HEAT**

**BURN BAG IMMEDIATELY WHEN EMPTY. STAY OUT OF SMOKE.**

### NET WEIGHT 50 POUNDS

READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH CAUTIONS



spray. **Severe infection**—2 lbs. per 100 gals. spray. **Bitter Rot, Black Rot, Botryosphaeria, Black Pox**—2 lbs. per 100 gals. spray. **Bull's Eye Rot, Botrytis Rot**—2 lbs. per 100 gals. spray. Make 1 or 2 applications with late cover sprays and 1 or 2 preharvest applications. **Special Sooty Blotch Sprays** (August and September)—1 lb. ORTHOCIDE 50 Wettable and 1 lb. ORTHO Zineb Wettable per 100 gals. spray. Where lead arsenate has been used in the apple maggot cover sprays, use ORTHOCIDE 50 Wettable at 2 lbs. per 100 gals. spray. Do not use lead arsenate within 30 days of harvest. ORTHOCIDE 50 Wettable should not be used in combination with or closely following or in alternation with wettable sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Stayman, Baldwin, King, etc. as severe foliage injury and defoliation may occur.

**APRICOTS: Brown Rot (Twig Blight), Jacket Rot**—2 lbs. per 100 gals. spray. Apply at red bud stage, bloom, and repeat at 75 per cent petal fall.

**ASPARAGUS: Preplanting Root Dip**—Stimulation of shoot growth — 3 pounds to 100 gals. spray. Dip root sections for 1 minute, drain and plant.

**BEANS, PEAS: Damp Off on Beans, Root Rot on Beans and Peas**—Broadcast 10 to 12 lbs. per acre. Work into upper 3 or 4 inches of soil or apply 5 to 6 lbs. per acre in row at planting time.

**CANTALoupES, CUCUMBERS, SUMMER SQUASH, WINTER SQUASH, WATER-MELONS, PUMPKINS: Anthracnose, Downy Mildew**—2 lbs. per 100 gals. spray or apply 4 lbs. per acre in sufficient water for coverage. Apply at first sign of disease. Repeat at 5 to 7 day intervals or as necessary to keep diseases under control.

**CARROTS: Septoria Leaf Spot, Cercospora Blight**—2 lbs. per 100 gals.

# (FUNGICIDE)

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Inert Ingredients .....	50%
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## NET WEIGHT 50 POUNDS

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH CAUTIONS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

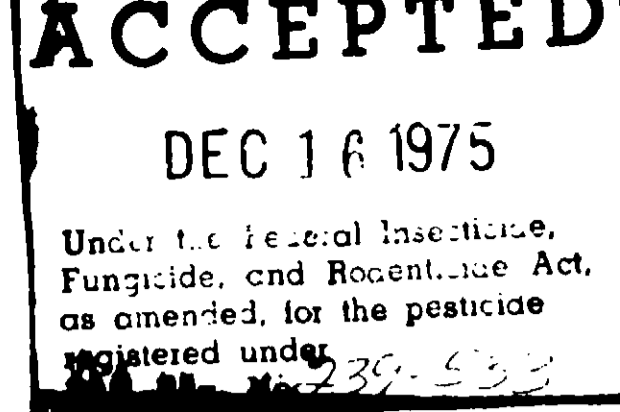
KEEP PESTICIDE IN ORIGINAL CONTAINER. DO NOT PUT CONCENTRATE OR DILUTE INTO FOOD OR DRINK CONTAINERS.

### DIRECTIONS

**NOTE:** For concentrate sprayer applications, the same quantity (per acre) of ORTHOCIDE 50 Wettable as would be normally applied when spraying dilute mixture, should be applied to each acre in sufficient water for coverage.

**ALMONDS:** Brown Rot, Shot Hole, Scab, Leaf Blight—2 lbs. to 100 gals. spray. Apply at popcorn, bloom, petal fall stages and up to 5 weeks after petal fall. May be used up to 12 days of harvest if hulls are not fed to dairy animals or animals being finished for slaughter.

**APPLES:** Primary Scab Infection—1½ to 2 lbs. per 100 gals. spray. Secondary Apple Scab, Brooks Fruit Spot, Flyspecking—1 lb. per 100 gals.



spray. Severe infection—2 lbs. per 100 gals. spray. Bitter Rot, Black Rot, Botryosphaeria, Black Pox—2 lbs. per 100 gals. spray. Bull's Eye Rot, Botrytis Rot—2 lbs. per 100 gals. spray. Make 1 or 2 applications with late cover sprays and 1 or 2 preharvest applications. **Special Sooty Blotch Sprays** (August and September)—1 lb. ORTHOCIDE 50 Wettable and 1 lb. ORTHO Zineb Wettable per 100 gals. spray. Where lead arsenate has been used in the apple maggot cover sprays, use ORTHOCIDE 50 Wettable at 2 lbs. per 100 gals. spray. Do not use lead arsenate within 30 days of harvest. ORTHOCIDE 50 Wettable should not be used in combination with or closely following or in alternation with wettable sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Stayman, Baldwin, King, etc. as severe foliage injury and defoliation may occur.

**APRICOTS:** Brown Rot (Twig Blight), Jacket Rot—2 lbs. per 100 gals. spray. Apply at red bud stage, bloom, and repeat at 75 per cent petal fall.

**ASPARAGUS:** Preplanting Root Dip—Stimulation of shoot growth — 3 pounds to 100 gals. spray. Dip root sections for 1 minute, drain and plant.

**BEANS, PEAS:** Damp Off on Beans, Root Rot on Beans and Peas—Broadcast 10 to 12 lbs. per acre. Work into upper 3 or 4 inches of soil or apply 5 to 6 lbs. per acre in row at planting time.

**CANTALOUPE, CUCUMBERS, SUMMER SQUASH, WINTER SQUASH, WATER-MELONS, PUMPKINS:** Anthracnose, Downy Mildew—2 lbs. per 100 gals. spray or apply 4 lbs. per acre in sufficient water for coverage. Apply at first sign of disease. Repeat at 5 to 7 day intervals or as necessary to keep diseases under control.

**CARROTS:** Septoria Leaf Spot, Cercospora Blight—2 lbs. per 100 gals. spray. Apply 4 lbs. per acre in water to cover. Apply at first sign of disease. Repeat at 6 to 10 day intervals.

**CELERY:** Late Blight (Septoria), Pink Rot (Sclerotinia)—2 lbs. per 100 gals. spray. Apply 200 diluted gallons per acre or equivalent of 4 to 4½ lbs. per acre in water for coverage. Apply at first signs of diseases. Repeat at 7 to 10 day intervals as necessary to maintain control.

**CELERY SEEDBED TREATMENT:** Damp Off, Pink Rot; **PEPPERS:** Damp Off—2 lbs. per 100 gals. spray. Spray or drench at 10 to 15 gals. per 1000 sq. ft. of seed bed. Apply when all seeds have germinated. Repeat as necessary.

**CHERRIES:** Cherry Leaf Spot (West Only), Brown Rot, Botrytis Rot—2 lbs. per 100 gals. spray. Spray at prebloom, bloom, petal fall.

**DAMP OFF on Cuttings of Azaleas, Carnations and Chrysanthemums:** Dip cuttings in a suspension of 4 lbs. per 100 gals. spray before bedding.

**GRAPES: Downy Mildew, Blackrot**—2 lbs. in 100 gals. spray. Make first application just before bloom, and repeat immediately after bloom. Depending upon the susceptibility of the grape variety, from 1 to 3 more sprays may be needed at 7 to 10 day intervals. For late season control on foliage, use ORTHO Copper 53 Fungicide. **Dead Arm Disease (California)**—2 lbs. per 100 gals. spray, 3 to 6 lbs. per acre. First spray at bud break to 1 inch shoot length. Second spray 2 weeks later or shoots 4 to 8 inches in length, at 4 to 6 lbs. per acre. **(Northeast)**—2 lbs. per 100 gals. spray. Make first application when new growth is 4 to 6 inches long, repeat when growth is 8 to 10 inches long.

**LEMONS, LIMES, ORANGES, GRAPEFRUIT: Brown Rot (Phytophthora)**—2 to 4 lbs. to 100 gals. spray. Apply as a skirt spray prior to winter rains, thoroughly wetting tree to heights of 3 to 4 feet. Re-treat 10 weeks after first application.

**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.

**MANGO: Cercospora Spot or Blotch**—2 lbs. per 100 gals. spray. Apply at first sign of diseases. Repeat at regular intervals as necessary to maintain control.

**ORANGES, TANGELOS: Scab, Melanose, Tree Response such as Increased Fruit Set**—Apply 10 lbs. in combination with 2½ pts. of CHEVRON Spray Sticker per 500 gals. in the postbloom spray from ½ petal fall until the fruit reaches approximately ½ inch in diameter. **NOTE:** Apply ORTHO Copper 53 Fungicide in the Dormant Spray as the primary scab spray. For fresh fruit melanose control, apply ORTHO Copper 53 Fungicide as a second postbloom spray 5 to 6 weeks after petal fall. For maximum tree response and scab control, apply ORTHOCIDE 50 Wettable as near Petal Fall as possible. Do not feed treated raw citrus by-products to livestock.

**ORNAMENTALS: ROSES—Black Spot, CARNATIONS—Rust and Leaf Spot. CHRYSANTHEMUMS—Flower Blight**—2 lbs. per 100 gals. spray. Apply at first signs of diseases, cover upper and lower leaf surfaces thoroughly. Repeat every 7 to 10 days.

**PEACHES, NECTARINES: Brown Rot, Scab, Coryneum Blight (Shot Hole)**—2 to 4 lbs. per 100 gals. spray. Apply in pink bud, full bloom, petal fall and shuck shed stages. Repeat cover sprays as necessary. Also make a fall foliage spray for Coryneum Blight. When applied on day of harvest, do not exceed 10 lbs. per acre; 12 lbs. per acre may be applied up to 1 day of harvest.

**PEARS: Pear Scab (Except Pacific Northwest)—PRIMARY INFECTION**—2 lbs. per 100 gals. spray. Apply during early finger stage and Petal Fall stage. **SECONDARY INFECTION**—1 lb. per 100 gals. spray during cover sprays. **Severe Scab Infection**—2 lbs. per 100 gals. spray. Additional treatments may be necessary. Russeting may be produced on Bosc Pears. Do not use on D'Anjou Pears.

**PINEAPPLE: Heart Rot (Phytophthora parasitica)—DIP TREATMENT**—Dip slips in ORTHOCIDE 50 Wettable suspension of 1 lb. to 10 gals. spray immediately before planting (equivalent to approximately 20 lbs. per acre). **Heart Rot (Phytophthora parasitica), Heart Rot-Root Rot (Phytophthora cinnamomi)—SPRAY TREATMENT**—If preferred, spray plants immediately after planting, using 10 lbs. ORTHOCIDE 50 Wettable per acre in sufficient water to cover. Direct spray at plants. Repeat 2 weeks after planting. Whether dip or spray treatment is used initially, repeat above spray at intervals of weeks or months as needed.

**PRUNES, PLUMS: Crown Rot**—2 lbs. per 100 gals. spray. Apply at Green Tip or popcorn stage. Repeat at bloom and 75% petal fall stages. Also repeat later in season as necessary. **Prune Russet Scab (Lacy Scab in California)**—2 lbs. per 100 gals. spray (8 lbs. per acre). Apply at full bloom.

**RASPBERRIES: Spur Blight, Anthracnose**—2 lbs. to 100 gals. spray. Apply when blossoms are in bud (young canes are 8 to 10 inches long). Make second application 2 weeks later. Apply a fall spray after old canes are removed. Thorough coverage is essential. **Fruit Rot**—2 lbs. to 100 gals. spray. Make 3 applications as follows. **First**—3 to 5 days before harvest starts; **Second**—At mid-harvest; **Third**—8 to 10 days after the second application.

**SOIL AND GREENHOUSE BENCH TREATMENT: Preplanting for Damp Off and Root Rot Diseases on Seedlings or Transplants of Roses (and other shrubs and trees). Many Flowers and Vegetables (such as Beans, Peas and Cucurbits) and Lawn Seedbeds**—Apply as a dust at 4 to 5 oz. per 1000 sq. ft. or spray at 2 lbs. to 100 gals. spray, using 15 gals. to each 1000 sq. ft. Cultivate into upper 3 to 4 inches of soil before planting.

**STRAWBERRIES: Botrytis Rot**—2 to 3 lbs. to 100 gals. spray, applying 200 diluted gals. per acre (or equivalent of 4 to 6 lbs. per acre in water for coverage). Apply when new growth starts in spring before fruit starts to form. Repeat applications weekly. **Severe Infection**—Continue through harvest period, treating immediately after each picking.

**TARO (Hawaii only): Pythium Soft Rot**—Apply 100 lbs. per acre in 500 gals. of water as a slurry to soil surface prior to planting. Till in to a depth of 6 inches "or" apply 100 lbs. of ORTHOCIDE 50 Wettable with fertilizer as a homogeneous dry mix and broadcast on the dry soil before taro is planted and the field is flooded. Apply only 1 preplant application. Do not use if leaves are to be used as food or feed. **For use on wetland taro in Hawaii only.**

**TOMATOES: Early Blight, Late Blight, Gray Leaf Spot, Anthracnose, Septoria Leaf Spot**—2 lbs. per 100 gals. spray or apply 4 to 6 lbs. per acre in water to cover. **Severe Infection:** 4 lbs. per 100 gals. spray or apply 6 to 8 lbs. per acre in water to cover. Apply at first sign of diseases. Repeat at 5 to 7 day intervals or as necessary to keep diseases under control.

**TURF, LAWN: Brown Patch, Leaf Spot, Damp Off, Root Rot**—2 lbs. per 100 gals. spray. Apply 10 gals. to each 1000 sq. ft. of turf or apply 8 lbs. per acre in water for coverage. Apply prior to infection. Repeat at 7 to 10 day intervals as necessary. Do not graze treated areas or feed clippings to livestock.

**COMPATIBILITY:** ORTHOCIDE 50 Wettable may be combined with most commonly used insecticides, adjuvants and fungicides with the exception of strongly alkaline materials such as hydrated lime, which reduces its fungicidal activity. Do not use this product in combination with oil sprays or with solvent formulations of Parathion products. Do not use this product on foliage closely following oil sprays.

**CONDITIONS OF SALE:** 1. Chevron Chemical Company (Chevron) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed hereon. Chevron neither makes, nor authorizes any agent or representative to make, any other warranty of FITNESS or of MERCHANTABILITY, guarantee or representation, express or implied, concerning this material.

2. Critical and unforeseeable factors beyond Chevron's control prevent it from eliminating all risks in connection with the use of chemicals. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated hereon and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Chevron under 1 above) resulting from handling, storage, and use of this material.

#### **Chevron Chemical Company**

Ortho Division/San Francisco CA 94119 Richmond CA 94804

Product 1760 Made in U.S.A.

R Form 8685 G

EPA Reg. No. 239-533-AA