

(STAUFFER SHIELD)

CAPTAN 50-WP

A FUNGICIDE FOR PLANT DISEASE CONTROL



ACTIVE INGREDIENT:

CAPTAN: N-((TRICHLOROMETHYL)THIO)-4-CYCLOHEXENE-1,2-DICARBOXIMIDE . . . . . 50%

INERT INGREDIENTS: . . . . . 50%  
100%

CAPTAN 50-WP 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 SOIL TREATMENT FOR THE CONTROL OF CERTAIN SEED ROTS AND DAMPING-OFF DISEASES.

CAUTION

*Dec 30, 1974*

KEEP OUT OF REACH OF CHILDREN *476-581*

CAUSES SKIN AND EYE IRRITATION.  
MAY BE HARMFUL IF SWALLOWED OR INHALED.  
AVOID CONTACT WITH SKIN, EYES OR CLOTHING.  
AVOID BREATHING DUST. USE WITH ADEQUATE VENTILATION.  
WASH THOROUGHLY AFTER HANDLING.  
DO NOT STORE NEAR FOOD OR FEED.

FIRST AID: IN CASE OF EYE CONTACT IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. WASH SKIN WITH SOAP AND WATER.

STORE IN COOL, DRY PLACE -- PROTECT FROM EXCESSIVE HEAT.

\_\_\_\_\_ LBS. NET

EPA REG. NO. 476-581

(A-2)

MADE IN U.S.A. BY  
STAUFFER CHEMICAL COMPANY  
WESTPORT, CT. 06880

CAPTAN 50-WP

OBSERVE THE FOLLOWING DIRECTIONS:

READ ALL PRECAUTIONS AND DIRECTIONS CAREFULLY.  
FOR CLAIMS LISTED AND ONLY AS SPECIFIED ON LABEL.

IN ORDER THAT PESTICIDE RESIDUES IN FOOD DO NOT  
EXCEED FEDERAL TOLERANCES, USE ONLY AT RECOMMENDED RATES  
AND DO NOT APPLY CLOSER TO HARVEST THAN SPECIFIED ON LABEL.  
ALLOW TO DRIFT TO ADJOINING FOOD, FIBER OR PACKING.

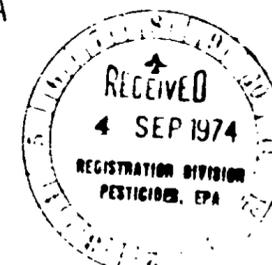
CONSULT STATE AGRICULTURAL EXPERIMENT STATIONS OR LOCAL AGRICULTURAL  
EXTENSION SERVICE FOR ADDITIONAL INFORMATION. ALL THE TIMING OF  
APPLICATIONS NEEDED WILL VARY WITH THE LOCAL CONDITIONS.

FISH CAUTIONS: THIS PRODUCT IS TOXIC TO FISH. DO NOT CONTAMINATE  
ANY BODY OF WATER BY CLEANING OF EQUIPMENT, DISPOSAL OF WASTES OR  
APPLICATION WHERE RUNOFF IS LIKELY TO OCCUR. DO NOT APPLY WHEN  
WEATHER CONDITIONS FAVOR DRIFT FROM AREAS TREATED.

COMPATIBILITY AND PLANT SAFETY: CAPTAN 50-WP CAN BE COMBINED  
SAFELY AND EFFECTIVELY AT RECOMMENDED DOSAGE RATES WITH MOST COMMONLY  
USED FUNGICIDES AND INSECTICIDES, WITH THE EXCEPTION OF OIL AND  
STRONGLY ALKALINE MATERIALS. ALKALINE MATERIALS SUCH AS SPRAY LIME,  
LIME-SULFUR AND BORDEAUX MIXTURE WILL REDUCE THE FUNGICIDAL ACTIVITY  
OF CAPTAN. DO NOT APPLY CAPTAN IN COMBINATION WITH OR IMMEDIATELY  
BEFORE OR CLOSELY FOLLOWING OIL SPRAYS. THE TIME FACTOR GOVERNING  
THE SAFE INTERVAL BETWEEN CAPTAN AND OIL SPRAYS VARIES DUE TO GENERAL  
CLIMATIC CONDITIONS, THEREFORE, CONSULT LOCAL AGRICULTURAL SPRAY  
PROGRAMS AND AUTHORITIES TO DETERMINE THE PROPER TIMING. THE USE  
OF SPREADERS WHICH CAUSE EXCESSIVE WETTING IS NOT ADVISED. COMBINA-  
TIONS WITH SOLVENT FORMULATIONS OF ORGANIC PHOSPHATES SHOULD NOT BE  
USED. COMBINATIONS OF CAPTAN AND SULFUR SHOULD NOT BE USED ON CROPS  
SENSITIVE TO SULFUR. USED AT HIGH RATES OR IN DRENCHING SPRAYS,  
CAPTAN MAY CAUSE A NECROTIC SPOTTING OF TENDER, IMMATURE LEAVES OF  
CERTAIN VARIETIES OF APPLES, PEACHES, PLUMS AND CHERRIES. THIS  
TYPE OF INJURY IS MOST LIKELY TO OCCUR IN THE EARLY COVER SPRAYS  
DURING LONG PERIODS OF WARM, CLOUDY, HUMID WEATHER. TO AVOID THE  
HAZARD OF LEAF SPOTTING UNDER SUCH CONDITIONS, USE CAPTAN AND OTHER  
SPRAY MATERIALS AT LOWEST RECOMMENDED RATES AND AVOID DRENCHING  
TREES.

RINSE SPRAY EQUIPMENT AND CONTAINERS.

BURY WASTE AND EMPTY BAG IN AN ISOLATED AREA  
AWAY FROM WATER SUPPLIES.



DIRECTIONS FOR USE

APPLICATIONS CAN BE MADE BY AIRCRAFT OR GROUND POWER EQUIPMENT (INCLUDING CONCENTRATE AND SEMI-CONCENTRATE EQUIPMENT). POUR RECOMMENDED AMOUNT OF THIS MATERIAL INTO NEARLY FILLED SPRAY TANK. ADD BALANCE OF WATER. MAINTAIN AGITATION DURING FILLING AND SPRAYING OPERATIONS. DO NOT ALLOW MIXTURE TO STAND. DO NOT COMBINE 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 50-WP PER 100 GALLONS WATER FOR FRUIT AND NUT CROPS AND ORNAMENTALS. FOR VEGETABLE CROPS, RATES ARE EXPRESSED AS CAPTAN 50-WP 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, EXPRESSED AS CAPTAN 50-WP IS GIVEN IN PARENTHESIS, ( ), AFTER EACH CROP CLAIM.

FRUIT AND 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 AND BLOSSOM BLIGHT, SHOTHOLE, SCAB, LEAF BLIGHT -- USE 2 TO 3 POUNDS. APPLY AT POPCORN, BLOOM AND PETAL FALL STAGES AND UP TO 5 WEEKS AFTER PETAL FALL. HULLS MAY BE FED TO LIVESTOCK. (32 POUNDS)

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 POUNDS)



APPLES (EASTERN U.S.): PRIMARY SCAB, BLACK ROT (FROGEYE), BOTRYTIS BLOSSOM-END ROT -- 1-1/2 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 1-1/2 TO 3 POUNDS SULFUR OR 1/4 TO 1/2 POUND KARATHANE TO ALL PRE-BLOOM AND BLOOM SPRAYS AND 1/4 TO 1/2 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. 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, STAYMAN, BALDWIN, KING, ETC. AS 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) -- 2 POUNDS PER 100 GALLONS SPRAY. MAKE 1 OR 2 APPLICATIONS WITH LATE COVER SPRAYS AND 1 TO 2 PREHARVEST APPLICATIONS. (16 POUNDS)

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 PREBLOSSOM (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. RASPBERRIES (WESTERN U.S.): ANTHRACNOSE, BOTRYTIS, SPUR BLIGHT -- USE 2 POUNDS. APPLY AT BLOOM OR WHEN NEW SHOOTS ARE 8 TO 10 INCHES LONG. REPEAT 2 WEEKS LATER. APPLY EARLY SPRAY AFTER CANES ARE REMOVED. FRUIT ROT -- USE 2 POUNDS. APPLY 3 TO 5 DAYS BEFORE HARVEST STARTS. REPEAT AT MID-HARVEST AND 8 TO 10 DAYS LATER. (6 POUNDS)

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 MATURITY. (5 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. APPLICATIONS AT 3 TO 4 DAY INTERVALS MAY BE NECESSARY DURING BLOOM TO CONTROL BLOSSOM BLIGHT. REPEAT APPLICATIONS 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 -- USE 2 POUNDS IMMEDIATELY AFTER HARVEST FOR LEAF SPOT. REPEAT APPLICATION IN 10 TO 14 DAYS. (20 POUNDS)

CHERRIES (WESTERN U.S.): - BROWN ROT BLOSSOM BLIGHT, BROWN ROT (FRUIT), LEAF SPOT -- USE 2 POUNDS IN PRE-BLOOM, BLOOM, PETAL FALL, SHUCK, COVER AND PREHARVEST SPRAYS. (20 POUNDS)

CITRUS (GRAPEFRUIT, LEMONS, LIMES, 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 3 TO 4 FEET. REPEAT 10 TO 12 WEEKS LATER (20 POUNDS). MELANOSE, SCAB (ORANGES AND 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 BYPRODUCTS TO LIVESTOCK (10 POUNDS).

CRANBERRIES (WESTERN U.S.): BLOTCH ROT (ACANTHORYNCHUS VACCINII), GUIGNARDIA BLIGHT -- APPLY 6 POUNDS PER ACRE IN 300 GALLONS OF WATER IN EARLY SPRING. REPEAT APPLICATIONS AS REQUIRED. STORAGE ROTS, TWIG BLIGHT -- APPLY 6 POUNDS PER ACRE IN 300 GALLONS OF WATER JUNE 1-5 FOR TWIG BLIGHT, AND IN EARLY AND LATE AUGUST FOR STORAGE ROTS. (7 POUNDS)

GRAPES (EASTERN U.S.): BLACK ROT, DOWNY MILDEW -- 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 INFECTION) USE 2 TO 4 POUNDS PER 100 GALLONS DILUTE SPRAY. APPLY 50 GALLONS PER ACRE WHEN SHOOTS ARE 1/2 TO 1 INCH LONG. REPEAT APPLICATION WHEN SHOOTS ARE 4 TO 6 INCHES LONG. (10 POUNDS)

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) - USE 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 POUNDS)

MANGOES: CERCOSPORA LEAF SPOT OR BLOTCH -- USE 2 POUNDS. BEGIN AT FIRST SIGN OF DISEASE AND REPEAT AT WEEKLY INTERVALS TO MAINTAIN CONTROL. (20 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, SHOTHOLE) 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)

PEACHES (NURSERY STOCK) (CALIFORNIA): PREVENTATIVE PREPLANT DIP TREATMENT FOR CROWN GALL. USE 4 POUNDS CAPTAN 50-WP PLUS 3.2 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 5 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.

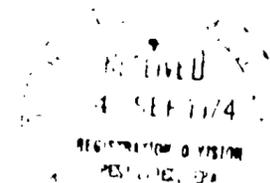
PEARS (EASTERN U.S.): SCAB -- USE 2 POUNDS IN PREBLOSSOM, PETAL FALL AND COVER SPRAYS. REPEAT COVER APPLICATIONS AT 7 TO 14 DAY INTERVALS UNDER SEVERE SCAB CONDITIONS. RUSSETING MAY BE REDUCED ON BOSCH PEARS. DO NOT USE ON D'ANJOU PEARS. (16 POUNDS)

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 BOSCH PEARS. DO NOT USE ON D'ANJOU PEARS. (16 POUNDS)

PINEAPPLES: HEART ROT (PHYTOPHTHORA PARASITICA) -- USE 10 POUNDS. DIP SLIPS INTO SOLUTION JUST PRIOR TO PLANTING. ROOT ROT (PHYTOPHTHORA CINNAMONII) -- USE 4 POUNDS. SPRAY IMMEDIATELY AFTER PLANTING. REPEAT AT 2 WEEK INTERVALS (20 POUNDS). POST HARVEST DIP: STORAGE AND TRANSIT ROT -- USE 10 POUNDS. DIP OR WASH HARVESTED FRUIT.

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) -- 2 POUNDS PER 100 GALLONS WATER (8 POUNDS PER ACRE). APPLY AT FULL BLOOM. (10 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)



CAPTAN 50-WP



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 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. (8 POUNDS)

VEGETABLE CROPS

ASPARAGUS (PREPLANTING ROOT DIP): BOTRYTIS, ROOT ROT, PHOMA ROT, PENICILLIUM ROT, FUSARIUM -- USE 3 POUNDS PER 100 GALLONS WATER (4 TABLESPOONFULS PER GALLON). DIP ROOT SECTIONS FOR 1 MINUTE, DRAIN AND PLANT.

BEANS, PEAS: DAMPING-OFF (BEAN ONLY), FUNGUS ROOT ROT -- APPLY 10 TO 12 POUNDS PER ACRE AS A BROADCAST TREATMENT, WORKING INTO TOP 3 TO 4 INCHES OF SOIL, OR APPLY 5 TO 6 POUNDS PER ACRE IN THE ROW AT TIME OF PLANTING.

CANTALOUPE, CUCUMBER, PUMPKIN, SUMMER AND WINTER SQUASH, HONEYDEW MELONS, WATERMELON: 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 POUNDS)

CARROTS: CERCOSPORA BLIGHTS, SEPTORIA LEAF SPOT -- USE 2 POUNDS PER 100 GALLONS WATER AND APPLY THE EQUIVALENT OF 4 POUNDS CAPTAN 50-WP PER ACRE. APPLY AT FIRST SIGN OF DISEASE AND REPEAT AT 5 TO 10 DAY INTERVALS. (6 POUNDS)

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 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: PHOMOPOSIIS 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)

ONIONS (GREEN): (CALIFORNIA) - DOWNY MILDEW - USE 3 POUNDS PER ACRE IN 5 TO 20 GALLONS WATER PER ACRE BY AIR OR 20 TO 100 GALLONS WATER PER ACRE BY GROUND EQUIPMENT. APPLY AT FIRST SIGN OF INFECTION AND REPEAT AT 5 TO 7 DAY INTERVALS OR AS NEEDED TO MAINTAIN DISEASE CONTROL. (3 POUNDS)

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, CERCOSPOBA (FROGEYE 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 8 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 THE VEGETABLE 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 POUNDS)

BEETS: USE 2 POUNDS PER 100 GALLONS WATER; 15 GALLONS SPRAY PER  
1,000 SQUARE FEET. (13 POUNDS)

BROCCOLI, BRUSSEL SPROUTS, CABBAGE, CAULIFLOWER, COLLARDS, KALE,  
KOHLRABI, MUSTARD, RUTABAGAS, TURNIPS: DAMPING-OFF ONLY -- USE 15  
POUNDS BROADCAST. (28 POUNDS)

CANTALOUPE, CUCUMBERS, HONEYDEW MELONS, PUMPKINS, SQUASH (SUMMER  
AND WINTER), WATERMELONS: USE 2 POUNDS PER 100 GALLONS WATER;  
600 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 ROTTS (BOTRYTIS, GLEOSPORIUM, RHIZOPUS) USE AS A POST HARVEST DIP OR WASH ON THE FOLLOWING FRUITS AND VEGETABLES: APPLES, APRICOTS, CANTALOUPE, CHERRIES, CUCUMBERS, GRAPEFRUIT, LEMONS, LIMES, MANGOES, NECTARINES, ONIONS (GREEN AND 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 BYPRODUCTS TO DAIRY ANIMALS OR ANIMALS BEING FINISHED FOR SLAUGHTER.

PACKING BOX TREATMENT: FOR REDUCTION OF STORAGE ROTTS AND MOLDS (RHIZOPUS, BOTRYTIS, GLEOSPORIUM) 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.

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 ROLFSSII) -- USE 2 POUNDS. APPLY 1 GALLON SPRAY PER 10 SQUARE FEET. MAKE 2 TO 3 APPLICATIONS AT 7 DAY INTERVALS.



GLADIOLUS (CORMS): CORM ROT AND 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, SEEDLING 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 1/5 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 AND 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 15 GALLONS PER 1,000 SQUARE FEET, CULTIVATE INTO UPPER 3 TO 4 INCHES OF SOIL BEFORE PLANTING.

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