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Captan 50 Wettable Powder

A Fungicide For Plant Disease Control

Captan 50 Wettable Powder is a micro fine wettable powder for use in water as a spray for the control of certain fungus diseases of fruit and ornamental crops, and as a soil treatment for the control of certain seed rots and damping off diseases.

ACTIVE INGREDIENTS:

Captan: N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide 48.9%

Related Derivatives 1.1%

OTHER INGREDIENTS: 50.0%

TOTAL: 100.0%

KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

See booklet for First Aid, additional Precautionary Statements and Directions for Use.

Produced for:

Arysta LifeScience North America, LLC

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NET CONTENTS:



Arysta LifeScience

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15–20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

EMERGENCY NUMBERS:

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL: 1-866-303-6952

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

WARNING. Causes substantial but temporary eye damage. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), long sleeved shirt, long pants, shoes, and socks. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators, and other handlers (including handlers participating in transplanting as part of root-dip or greenhouse-soil treatments) must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks
- Chemical resistant gloves *except* applicators driving motorized ground equipment.
- Chemical resistant apron when mixing/loading, participating in dip treatments, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate.
- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH-approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter when mixing, loading, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This chemical is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

STORE IN COOL, DRY PLACE—PROTECT FROM EXCESSIVE HEAT

DIRECTIONS FOR USE

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

DO NOT allow this product to drift.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

DO NOT apply this product to seeds or seed pieces.

DO NOT use for aerial application.

DO NOT apply this product with aerial or chemigation equipment.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

The REI for each crop is listed in the directions for use associated with each crop.

EARLY ENTRY PPE:

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear such as goggles, face shields, or safety glasses.

Double Notification: Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Eye protection: To mitigate eye irritation concerns from post-application exposures, for at least seven days following the application of captan: 1. At least one container designed specifically for flushing eyes must be available in operating condition at the WPS-required decontamination site for workers entering the area treated with captan. 2. Workers must be informed orally, in a manner they can understand; that residues in the treated area may be highly irritating to their eyes, that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes, that if they do get residues in their eyes, they should immediately flush their eyes with the eyeflush container that is located at the decontamination site, and how to operate the eyeflush container.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Entry Restrictions for Postharvest Fruit Dip

Do not contact or allow others to contact the treated fruit until sprays have dried.

Entry Restrictions for All Other Non-WPS Uses

Do not enter or allow others to enter until sprays have dried.

Read all precautions and directions for use before using. Use only for claims listed and only as specified on this label. In order that pesticide residues on food and forage crops will not exceed federal tolerances, use only at listed rates and intervals, and do not apply closer to harvest than specified. Do not apply or allow drifting to adjoining food, fiber or pasturing crops. Drift of captan onto sensitive crops (e.g. D'Anjou pears) can cause severe phytotoxicity and crop loss. Consult State Agricultural Experiment Stations or State Agricultural Extension Service for additional information, as the time of applications needed will vary with the local conditions.

This product is intended for dilution with water for spray application. Do not use strainers finer than 50-mesh size. Fill the spray or nurse tank ½ full with water. Add the required amount of Captan 50 Wettable Powder. Then add the rest of the required water. Start hydraulic or mechanical agitation. Air agitation is not recommended. Mix thoroughly to fully disperse and suspend the wettable powder. Fill the spray tank with the required amount of water. Add tank mix partners in this order: all products in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank mix partner to fully disperse before adding the next product. Maintain sufficient agitation while adding the remainder of the water and until all of the mixture has been applied. Maintain agitation during storage in nurse or supply tank or application.

FOLIAR SPRAY DRIFT MANAGEMENT

Avoiding spray drift from foliar applications is the responsibility of the applicator. The interaction of many equipment- and-weather-related factors determine the potential for spray drift from foliar applications. To protect water resources, the applicator and the grower are responsible for considering all these factors when making decisions. Consult State Agricultural Experiment stations or State Agricultural Extension Service for additional information as the time of applications needed will vary with the local conditions.

COMPATIBILITY AND PLANT SAFETY

Captan 50 Wettable Powder can be combined safely and effectively at listed 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. Do not allow oil sprays on adjacent crops to drift onto crops which have been or will shortly be treated with captan. 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. Combinations 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 listed rates and avoid drenching trees.

For concentrate spray applications, apply the same amount of Captan 50 Wettable Powder per acre as would normally be applied for dilute spray applications. Apply concentrate sprays in sufficient water for coverage.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Keep pesticide in original container. Keep container tightly closed when not in use. Protect from excessive heat. Store in a cool, dry place.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available, or dispose of bag container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

GENERAL USE PRECAUTIONS

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 application is for a crop cycle. Crop cycle is defined as prebloom through postharvest. Apply the high rate and/or spray at shorter intervals when climatic conditions most favors disease(s). Apply the low rate and/or spray at larger intervals when climatic conditions least favors disease(s). If you are unaware of the climatic conditions favorable for disease(s) claimed for the specific use sites, you must consult with your State Agricultural Extension Service to learn of these conditions.

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. The dividing line between eastern and western U.S. is the Rocky Mountains unless specifically noted otherwise. Follow those directions for your growing area where specified.

FRUIT AND NUT CROPS

ALMONDS:

Brown rot twig and blossom blight, shothole, scab, leaf blight, anthracnose (for control of anthracnose, use in a disease and resistance management program of rotational sprays with other approved materials)—

Apply 4 to 9 lb Captan 50 Wettable Powder per acre in 20 to 300 gal of water using ground equipment. Use 6 to 9 lb/A when Captan is used alone. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, Captan 50 Wettable Powder may be used in a tankmix at a rate of 4 to 6 lb/A. Apply at popcorn, bloom and petal fall, post petal fall, and full cover sprays.

The maximum application rate for almonds is 4.5 lb ai/A, with a maximum seasonal application rate of 20 lb ai/A per crop cycle*. Preharvest interval (PHI) = 30 days. Note the Restricted Entry Interval is 24 hours. Almond hulls may be fed to livestock.

APPLES (Eastern U.S.):

Primary scab, black rot (frogeye), botrytis blossom end rot—Apply 8 lb Captan 50 Wettable Powder per acre in 20 to 400 gal of water using ground equipment. Apply at 5 to 7 day intervals as needed to maintain control in prebloom, bloom, petal fall and first cover sprays.

Secondary scab, Brooks fruit spot, sooty blotch, fly speck, black rot, black pox, botryosphaeria rot, bitter

rot—Apply 4 to 8 lb Captan 50 Wettable Powder per acre in 20 to 400 gal of water using ground equipment. Apply at 10 to 14 day intervals in second and later cover sprays.

The maximum application rate for apples is 4 lb ai/A, with a maximum seasonal application rate of 32 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

Powdery mildew—If powdery mildew is a problem add 6 to 12 lb sulfur per acre to all post bloom sprays until foliage matures.

Note the Restricted Entry Interval is 24 hours.

ATTENTION—Do not use Captan 50 Wettable Powder in combination with or closely following or in alternation with wettable sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Staymen, Baldwin, King, etc. as severe injury and defoliation may occur.

APPLES (Western U.S.):

Primary scab—Apply 4 to 8 lb Captan 50 Wettable Powder per acre in 20 to 400 gal of water per acre using ground equipment. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, the lower rate may be used in tank mixtures.

(Pacific Northwest)—Bull's eye rot, Botrytis rot—Apply 6 lb Captan 50 Wettable Powder per acre in 20 to 400 gal of water using ground equipment. Make 1 or 2 applications with late cover sprays and 1 final spray prior to harvest.

Secondary scab—In mid-summer cover sprays, the dosage maybe reduced to 4 lb/A.

The maximum application rate for apples is 4 lb ai/A, with a maximum seasonal application rate of 32 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

APRICOTS:

Brown rot (twig blight), jacket rot—Apply 3 to 5 lb Captan 50 Wettable Powder per acre in 20 to 250 gal of water using ground equipment. Apply in red bud, bloom, and 75% petal fall sprays. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rate in tank mixtures.

The maximum application rate for apricots is 2.5 lb ai/A, with a maximum seasonal application rate of 12.5 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

BLUEBERRIES (Eastern U.S.):

Botrytis gray mold or berry rot, mummy berry—Apply 5 lb Captan 50 Wettable Powder per acre in sufficient water for thorough coverage. Start spray program when buds swell or when buds have loose scales. Repeat at 7-day intervals through blossom period. Repeat at 7-to-10 day intervals from late bloom.

The maximum application rate for blueberries is 2.5 lb ai/A, with a maximum seasonal application rate of 35 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 48 hours.

BLUEBERRIES (Western U.S.):

Botrytis gray mold or berry rot, mummy berry—Apply 2 to 5 lb Captan 50 Wettable Powder per acre in 20 to 200 gal of water by ground. Begin at mid-bloom, repeat at 7 to 10 day intervals until maturity.

The maximum application rate for apples is 2.5 lb ai/A, with a maximum seasonal application rate of 35 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 48 hours.

BLACKBERRIES, DEWBERRIES, RASPBERRIES:

Anthraxnose, Botrytis, Spur blight—Apply 2 to 4 lb Captan 50 Wettable Powder per acre when blossoms are in bud (young canes are 8–10 inches long). Make a second application two weeks later. Apply a fall spray after old canes are removed.

Fruit rot—Apply 4 lb of product per acre at early bloom (5–10% bloom) and again at full bloom. Additional applications can be made at 10–14 day intervals as needed. Apply product as indicated above in 45–100 gal of water per acre. Use the higher volume as foliage increases.

The maximum application rate for blackberries and raspberries is 2 lb ai/A, with a maximum seasonal application rate of 10 lb ai/A per crop cycle*. Preharvest interval (PHI) = 3 days. Note the Restricted Entry Interval is 48 hours.

CHERRIES (Eastern U.S.):

Brown rot, leaf spot, Botrytis rot—Apply 4 lb Captan 50 Wettable Powder per acre in 20 to 200 gal of water using ground equipment. Apply in pre bloom, bloom, petal fall, shuck, cover, and pre harvest sprays. Applications at 3-to-4 day intervals may be necessary during bloom to control blossom blight. Repeat applications at 7 to 20 day intervals as needed to maintain control up to start of harvest. If powdery mildew is a problem add 6 lb sulfur per acre to the petal fall, shuck and early cover sprays. If sulfur is added, Captan 50 Wettable Powder may be reduced to 2 lb/A in these sprays.

The maximum application rate for cherries is 2 lb ai/A, with a maximum seasonal application rate of 14 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

Post harvest sprays: Leaf spot—Apply 4 lb Captan 50 Wettable Powder per acre in 20 to 200 gal of water using ground equipment. Apply immediately after harvest and repeat application in 10 to 14 days. Note the Restricted Entry Interval is 24 hours.

CHERRIES (Western U.S.):

Brown rot blossom blight, brown rot (fruit), leaf spot—Apply 3 to 4 lb Captan 50 Wettable Powder per acre in 20 to 200 gal of water using ground equipment. Apply in pre bloom, bloom, petal fall, shuck, cover and preharvest sprays.

The maximum application rate for cherries is 2 lb ai/A, with a maximum seasonal application rate of 14 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

GRAPES (U.S., except CA):

Phomopsis cane and leaf spot, downy mildew, suppression of black rot—Apply 2 to 4 lb Captan 50 Wettable Powder per acre in 20 to 200 gal water using ground equipment when shoots are ½ to 1 ½ inches long, when shoots are 3–5 inches long, and when shoots are 9–12 inches long.

Repeat just before bloom, immediately after bloom, and continue at 10–14 day intervals as long as disease conditions persist. Use the lower rate when spraying less susceptible grape varieties or when conditions are less favorable for disease development. Use the higher rate on susceptible grape varieties and during periods of weather highly favorable for disease development.

The maximum application rate for grapes is 2 lb ai/A, with a maximum seasonal application rate of 12 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 48 hours.

GRAPES (California):

Bunch rot (Botrytis)—Apply 4 lb Captan 50 Wettable Powder per acre in 20 to 200 gal of water using ground equipment. Make 2 applications before bloom and 1 immediately after bloom. Repeat periodically making 3 cover applications before the bunches close.

Phomopsis cane and leaf spot (current season infection)—Apply 3 to 4 lb Captan 50 Wettable Powder per acre in 20 to 200 gal of water using ground equipment. Apply first spray when green tissue begins to show but before shoots are 1-inch long and repeat application when shoots are 6 to 8 inches long.

The maximum application rate for grapes is 2 lb ai/A, with a maximum seasonal application rate of 12 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 48 hours.

NECTARINES (U.S.):

Brown rot, scab—Apply 4 to 8 lb Captan 50 Wettable Powder per acre in 20 to 250 gal of water using ground equipment. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rates of Captan 50 Wettable Powder in tank mixes. Apply 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 control. Continue applications throughout harvest if conditions favor brown rot. If powdery mildew is a problem, add 7.5 lb sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, Captan 50 Wettable Powder may be reduced to 2.5 lb/A in these sprays.

Coryneum blight (peach blight, shothole)—Apply 4 to 8 lb Captan 50 Wettable Powder per acre in 20 to 250 gal of water using ground equipment. Apply in pink bud, full bloom, petal fall and cover sprays as necessary and as a postharvest spray (but before leaves drop).

The maximum application rate for nectarines is 4 lb ai/A, with a maximum seasonal application rate of 24 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

PEACHES (U.S.):

Brown rot, scab—Apply 4 to 8 lb Captan 50 Wettable Powder per acre in 20 to 400 gal of water using ground equipment. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rates of Captan 50 Wettable Powder in tank mixes. Apply in full pink, bloom, petal fall, shuck stages and in cover and preharvest sprays. When conditions are favorable, make applications at 3 to 4 day intervals during bloom to control blossom blight. Then repeat application at 7 to 14 day intervals as needed to maintain control. Continue applications through harvest if conditions favor brown rot. If powdery mildew is a problem, add 12 lb sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, Captan 50 Wettable Powder may be reduced to 4 lb/A in these sprays.

Coryneum blight (peach blight, shothole)—Apply 8 lb Captan 50 Wettable Powder per acre in 20 to 400 gal of water using ground equipment. Apply in pink bud, full bloom, petal fall stages and cover sprays as necessary and as a post harvest spray (but before leaves drop).

The maximum application rate for peaches is 4 lb ai/A, with a maximum seasonal application rate of 32 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

PLUMS, FRESH PRUNES (Eastern U.S.):

Brown rot—Apply 6 lb Captan 50 Wettable Powder per acre in 20 to 300 gal of water using ground equipment. Apply in full pink, bloom and petal fall sprays. Repeat applications at 7 to 14 day intervals as needed to maintain control. Continue applications through harvest if conditions favor brown rot. The addition of a neutral spreader has improved coverage.

The maximum application rate for plums/fresh prunes is 3 lb ai/A, with a maximum seasonal application rate of 27 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

PLUMS, FRESH PRUNES (Western U.S.):

Brown rot—Apply 4 to 6 lb Captan 50 Wettable Powder per acre in 20 to 300 gal of water using ground equipment. Use lower rates when tank mixes with fungicides of similar spectrum of activity are used. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant.

Prune russet scab (lacy scab)—Apply 4 to 6 lb Captan 50 Wettable Powder per acre in 20 to 300 gal of water using ground equipment. Apply at full bloom.

The maximum application rate for plums/fresh prunes is 3 lb ai/A, with a maximum seasonal application rate of 27 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

STRAWBERRIES:

Botrytis (gray mold), leaf spot—Apply by broadcast spray at 3 to 6 lb Captan 50 Wettable Powder per acre in sufficient water for thorough coverage by ground equipment. Begin applications when new growth starts in the spring and before fruit starts to form. Repeat at 7 to 14 day intervals. Under conditions favorable to fruit rot continue applications through harvest period treating immediately after each picking.

The maximum application rate for strawberries is 3 lb ai/A, with a maximum seasonal application rate of 24 lb ai/A per crop cycle*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

If applying as a directed/banded spray; use band rate of Captan 50 Wettable Powder according to the following formula:

$$\frac{\text{Plant Bed Width (inches)}}{\text{Row Spacing (inches)}} \times \text{Broadcast rate per acre} = \text{Banded rate of Captan 50 Wettable Powder per acre.}$$

NOTE: *Crop cycle is defined as prebloom through harvest.

SPECIAL USES

PEACH PREPLANT ROOT DIP (California): Preventative preplant dip treatment for crown gall. Use 4 lb Captan 50 Wettable Powder plus 3.2 pt diluted sodium hypochlorite (5.25% household bleach) per 100 gal 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 at a rate of 3.2 pt diluted sodium hypochlorite per 100 gal of water. The 48-hour REI begins when the treatment and any transplanting tasks done as a part of the treatment are complete. Exception: once the transplants are planted in the soil, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no contact with the soil subsurface.

POSTHARVEST FRUIT APPLICATION: (For use in mechanical fruit dip operations only). Hand dipping of fruit is prohibited: For control of various molds and storage rots (*Botrytis*, *Gleosporium*, *Rhizopus*). Use as a postharvest dip or spray wash on the following fruits: Apples, Cherries, Pears—Use 2 ½ lb Captan 50 Wettable Powder per 100 gal of water. Apply as a spray or in a 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 2 ½ lb Captan 50 Wettable Powder for each 100 gal 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. Hand dipping of fruit is prohibited. For post-application fruit dips: Do not contact or allow others to contact the treated fruit until sprays have dried.

DISPOSAL OF LEFTOVER POSTHARVEST TREATMENT MIXTURE: Leftover dip or spray mixtures containing captan may be used as a foliar spray for the same crop in case of apples and cherries (but not pears) as treated by the dip or spray mixture, or to registered turf and ornamentals sites, observing all restrictions such as maximum lb applied per application and season.

When calculating application rates, if analytical services are not available to determine the exact quantity of captan remaining in the mixture, assume that the tank still contains 2.5 lb of Captan 50 Wettable Powder per 100 gal of water. If the dip or spray mixture contains other pesticides in addition to captan, refer to the product label(s) for information regarding disposal.

Captan wastes are acutely hazardous to the eyes. Improper disposal of spray or dip tank mixtures is a violation of Federal law. If the leftover dip or spray mixture cannot be disposed of in the manner prescribed above, contact your

State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance concerning the disposal of spent or excess dip tank mixtures.

NONFOOD/ORNAMENTALS

USE PRECAUTIONS—Do not apply spray to ornamental plants beyond the point of drip from the leaf surface. Apply only sufficient mixture to wet the surface of the soil except when the dose is specified in terms of volume of mixture per square foot of area.

Restricted Entry Interval (REI): 48 hours

Workers may not enter the treated area to perform hand labor or other tasks involving contact with anything that has been treated, such as plants, soil, or water if they do not wear the early-entry PPE listed in the Agricultural Use Requirements box.

AZALEAS

Damping off of cuttings—Mix 4 lb Captan 50 Wettable per 107 gal of water. Dip cuttings in the mixture before bedding.

Petal Blight—Use 2 lb Captan 50 Wettable per 100 gal of water. Apply to the soil around the plants just before bloom. Repeat at 7 to 14 day intervals through bloom.

BEGONIAS (Tuberous)

Damping off, tuber rot—Use 4 lb Captan 50 Wettable per 100 gal of water. Dip tubers in mixture for 30 minutes, drain and plant.

CAMELLIAS

Petal Blight—Use 1 lb Captan 50 Wettable per 100 gal of water. Apply to drench soil around plants beginning when flowers begin to open. Repeat at 7 to 10 day intervals through bloom.

CARNATIONS

Alternaria Leafspot, Rust—Use 2 lb Captan 50 Wettable per 100 gal of water. Begin application at first sign of disease. Repeat at 7 to 10 day intervals. Shorten intervals if there are frequent rains and heavy dews.

Damping off of cuttings—Use 4 lb Captan 50 Wettable per 100 gal of water. Dip cuttings in mixture before bedding.

CHRYSANTHEMUM

Botrytis Flower Blight, Septoria Leafspot—Use 2 lb Captan 50 Wettable per 100 gal of water. Apply at first sign of disease. Repeat at 7 to 10 day intervals.

Damping off of cuttings—Use 4 lb Captan 50 Wettable per 100 gal of water. Dip cuttings in mixture before bedding.

DICHONDRA (California only)

White Mold—Use 8.6 lb/A per application Captan 50 Wettable per 100 gal of water. Apply 1 gal of spray per 10 sq ft. Make applications at 7-day intervals. Do not exceed 17.2 lb/A per season.

GINSENG (NOT FOR USE IN CALIFORNIA)

For control of *Cylindrocarpon* root rot (*Cylindrocarpon destructans*), Grey mold (*Botrytis cinerea*), Phytophthora root rot (*Phytophthora cactorum*), Pythium root rot (*Pythium* spp.) and Rhizoctonia root and crown rot (*Rhizoctonia solani*). Apply 4 lb of CAPTAN 50 WP per acre (2 lb ai/A) every 7–10 days or when conditions favor disease development. For control of grey mold, apply as a foliar spray with a minimum of 100 gal/A. For control of root and crown diseases,

apply as a drench with minimum of 200 gal/A. Do not use ginseng for food or feed purpose within 1 (one) year of treatment. Do not exceed 8 applications in one growing season.

Do not apply more than 32 lb of CAPTAN 50 WP (16 lb ai) per acre per season.

GLADIOLUS (Corms)

Corm Rot and Decay, Damping off—Use 6 oz Captan 50 Wettable per 10 gal of water, dip corms for 20 to 30 minutes. Drain and plant.

GRASSES (Ornamentals in Non Pastured Areas Only)

Do not apply to turfgrass in recreational sites, including homes, apartment buildings, daycare centers, schools, playgrounds, parks, recreational areas, sports fields, or other residential areas. The maximum application rate for golf course turf and turf in commercial settings is 4.3 lb ai/A with a maximum seasonal application rate of 8.6 lb ai/A.

Leafspot, Damping off, Brown Patch, Melting Out, Seedling Blights, Brown Spot on St. Augustine Grass—Use 2 lb Captan 50 Wettable per 100 gal of water. Apply 10 gal spray per 1,000 sq ft. Begin when growth starts in spring. Do not make more than two applications per season. Do not graze treated areas or feed clippings to livestock.

GRASSES (Lawn Seedbeds)

Damping off, Other Soil Borne Diseases—Use ¼ to ½ lb of Captan 50 Wettable per 1,000 sq ft or 2 lb Captan 50 Wettable per 100 gal of water, using 15 gal spray for per 1000 sq ft. Cultivate into top 3 to 4 inches of soil before planting. Do not apply captan containing products to the grass during the rest of the season.

ROSES

Black Spot, Botrytis Blossom Blight—Use 2 lb Captan 50 Wettable per 100 gal of water. 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

Preplant treatment for damping off, root rot diseases on seedling or transplants of roses (and other shrubs, trees, flowers) & lawn seedbeds – Use 2 lb Captan 50 Wettable per 100 gal of water at a rate of 15 gal spray per 1,000 sq ft. Cultivate into top 3 to 4 inches of soil before planting.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America Corporation ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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