



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 21, 2019

Robert Avalos
Registration Manager
Loveland Products Inc.
P.O. Box 1286
Greeley, CO 80632-1286

Subject: Label Amendment for Captan: Deletion of following uses per Federal Register cancellation order published 12/26/2017: Turf, sod farm, golf course, lawn seedbed, soil and greenhouse bench treatment
Product Name: Captan 50-W
EPA Registration Number: 34704-427
Application Date: 4/24/2017
Decision Number: 529291

Dear Mr. Avalos:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with the Federal Register cancellation order published December 26, 2017, you are permitted to sell or distribute products under the previously approved labeling for a period of 18 months after the date of the Federal Register publication of the cancellation order (i.e., 18 months after December 26, 2017). After this 18-month period, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false

Page 2 of 2
EPA Reg. No. 34704-427
Decision No. 529291

or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions about this letter, please contact Jaclyn Pyne by phone at 703-347-0445, or via email at pyne.jaclyn@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

CAPTAN 50-W FUNGICIDE

A Fungicide For Plant Disease Control

CAPTAN 50-W is a microfine 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:	% BY WT
*Captan:	48.93%
Related derivatives	1.07%
OTHER INGREDIENTS:	<u>50.0%</u>
TOTAL:	100.0%

*N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide

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.)

For Additional Precautionary Statements, Directions for Use, Storage and Disposal and Other Use Information, See Inside This Label Booklet.

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
<p>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

EPA Reg. No. 34704-427

EPA Est. No.

Net Contents: 30.0 LB (13.6 KG)

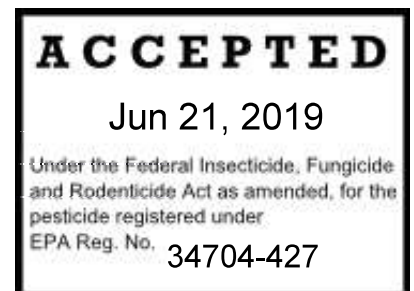
[EXP 4/17 Print Code to be placed here]

FORMULATED FOR:

LOVELAND PRODUCTS, INC.

P.O. BOX 1286

GREELEY, COLORADO 80632-1286



PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear long-sleeved shirt and long pants, socks and shoes and goggles or face shield.

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 seeding and 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 equipment)
- Chemical resistant apron when mixing/loading, participating in dip treatments, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate.
- Protective eyewear
- 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.

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.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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 pesticide is toxic to aquatic organisms. 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.

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

DIRECTIONS FOR USE

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

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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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,
- Protective eyewear,
- Chemical-resistant gloves made of any waterproof material,
- Shoes plus socks

EYE PROTECTION:

To mitigate eye irritation concerns from post-application exposure, it is required that, for at least seven days following the application of captan:

1. At least one container designed specifically for flushing eyes is available in operating condition at the WPS-required decontamination site for workers entering the area treated with captan, and
2. Workers are 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.

DOUBLE NOTIFICATION:

Notify workers of the application by warning them orally or by posting warning signs at entrances to treated areas.

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 Restriction: Do not allow people or pets to enter treated areas until sprays have dried.

For post-application fruit dips: Do not contact 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 recommended rates and intervals, and do not apply closer to harvest than specified. Do not apply or allow to drift

to adjoining food, fiber or pasture crops. Drift of captan onto sensitive crops (e.g. D'Anjou pears) can cause severe phytotoxicity and crop loss.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of the many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Apply only when the wind speed is 2 to 10 mph at the application site.

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

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-W 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. 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 recommended rates and avoid drenching trees.

Applications can be made by 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). Do not apply this product through any type of irrigation system.

For concentrate spray applications, apply the same amount of CAPTAN 50-W per acre as would normally be applied for dilute spray applications. Apply concentrate sprays in sufficient water for coverage. Do not apply this product through any type of irrigation system.

RESISTANCE MANAGEMENT

This product is a Group M* fungicide. Fungal isolates with acquired resistance to Group M fungicides may eventually dominate the fungal population if Group M fungicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group M fungicides. To delay fungicide resistance consider:

- Avoiding consecutive use of this product or other target site of action Group M fungicides that have a similar target site of action on the same pathogens.
- Using tank mixtures or pre-mixes with fungicides from different site of action Groups as long as the involved products are all registered for the same use and are both effective at the mix or repack rate on the pathogen(s) of concern.

- Basing fungicide use on a comprehensive IPM program.
- Monitoring treated fungal populations for loss of field efficacy.
- Contacting your local extension specialist certified crop advisors and/or manufacturer for fungicide resistance management and/or IPM recommendations for specific crops and resistant pathogens.

*The multi-site activity grouping designated by the symbol M comprises a collection of various chemicals that act as general toxophores with several sites of action. These sites may differ between group members.

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 pre-bloom through post-harvest.

Apply the high rate and/or spray at shorter intervals when climatic conditions most favor disease(s).

Apply the low rate and/or spray at larger intervals when climatic conditions least favor 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. 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 4.0 to 9.0 lbs. CAPTAN 50-W per acre in 20.0 to 300 gallons of water using ground equipment. Use 6.0 to 9.0 lbs. per acre when captan is used alone. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, CAPTAN 50-W may be used in a tank-mix at a rate of 4.0 to 6.0 lbs. per acre. Apply at popcorn, bloom and petal fall stages in cover spray and post-harvest sprays. The maximum application rate is 9.0 lbs of captan per acre (4.5 lb ai/acre) with a maximum seasonal application rate of 40.0 lbs per acre per crop cycle. Do not apply more than 40.0 lbs of CAPTAN 50-W per acre per crop cycle (20.0 lb ai/acre 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 (frog-eye), botrytis blossom-end rot - Apply 8.0 lbs. CAPTAN 50-W per acre in 20.0 to 400 gallons 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 4.0 to 8 lbs. CAPTAN 50-W per acre in 20.0 to 400 gallons of water using ground equipment. Apply at 10- to 14- day intervals in second and later cover sprays.

Powdery mildew - If powdery mildew is a problem add 6.0 to 12.0 lbs. sulfur per acre to all post-bloom sprays until foliage matures. Do not use CAPTAN 50-W 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.

The maximum application rate is 8.0 lbs of CAPTAN 50-W per acre (4.0 lb ai/acre). Do not apply more than 64.0 lbs (32.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 24 hours.

APPLES (Western U.S.): Primary scab - Apply 4.0 to 8.0 lbs. CAPTAN 50-W per acre in 20.0 to 400 gallons 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 6.0 lbs. CAPTAN 50-W per acre in 20.0 to 400 gallons of water. 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 4.0 pounds per acre.

The maximum application rate is 8.0 lbs of CAPTAN 50-W per acre (4.0 lb ai/acre). Do not apply more than 64.0 lbs (32.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 24 hours.

APRICOTS: Brown rot (twig blight), jacket rot - Apply 3.0 to 5.0 lbs. CAPTAN 50-W per acre in 20.0 to 250 gallons of water using ground equipment. Apply in red bud, bloom, 75% petal fall, and cover 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 is 5.0 lbs of CAPTAN 50-W per acre (2.5 lb ai/acre). Do not apply more than 25.0 lbs (12.5 lbs active ingredient) per acre per season. PHI = 0 days. Note the REI is 24 hours. NOTE IN CALIFORNIA: Do not apply after 75% petal fall.

BLUEBERRIES (Eastern U.S.): Botrytis gray mold or berry rot, mummy berry - Apply 5.0 lbs. CAPTAN 50-W 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 is 5.0 lbs of CAPTAN 50-W per acre (2.5 lb ai/acre). Do not apply more than 70.0 lbs (35.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 48 hours.

BLUEBERRIES (Western U.S.): Botrytis gray mold or berry rot, mummy berry - Apply 2.0 to 5.0 lbs. CAPTAN 50-W per acre in 20.0 to 200 gallons of water by ground. Begin at mid-bloom, repeat at 7- to 10- day intervals until maturity. The maximum application rate is 5.0 lbs of CAPTAN 50-W per acre (2.5 lb ai/acre). Do not apply more than 70.0 lbs (35.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 48 hours.

CHERRIES (Eastern U.S.): Brown rot, leaf spot, Botrytis rot - Apply 4.0 lbs. CAPTAN 50-W per acre in 20.0 to 200 gallons 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 6.0 lbs. sulfur per acre to the petal fall, shuck and early cover sprays. If sulfur is added, CAPTAN 50-W may be reduced to 2.0 lbs. per acre in these sprays. Post harvest sprays: Leaf spot - Apply 4.0 lbs. CAPTAN 50-W per acre in 20.0 to 200 gallons of water using ground equipment. Apply immediately after harvest and repeat application in 10- to 14- days.

The maximum application rate is 4.0 lbs of CAPTAN 50-W per acre (2.0 lb ai/acre). Do not apply more than 28.0 lbs (14.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 24 hours.

CHERRIES (Western U.S.):

Brown rot blossom blight, brown rot (fruit), leaf spot - Apply 3.0 to 4.0 lbs. CAPTAN 50-W per acre in 20.0 to 200 gallons of water using ground equipment. Apply in pre-bloom, bloom, petal fall, shuck, cover and preharvest sprays.

The maximum application rate is 4.0 lbs of CAPTAN 50-W per acre (2.0 lb ai/acre). Do not apply more than 28.0 lbs (14.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 24 hours.

GRAPES (U.S., except CA):

Phomopsis cane and leaf spot, downy mildew, suppression of black rot - Apply 2.0 to 4.0 lbs. CAPTAN 50-W per acre in 20.0 to 200 gallons water using ground equipment, when shoots are 0.5 to 1.5 inches long, when shoots are 3 to 5 inches long, and when shoots are 9 to 12 inches long.

Repeat just before bloom, immediately after bloom, and continue at 10- to 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.

Bunch rot (Botrytis) – Apply 4.0 lbs CAPTAN 50-W per acre in 20.0 to 200 gallons of water using ground equipment. Make 2 applications before bloom and 1 immediately after bloom. Repeat periodically, making 3 cover applications before bunches close.

The maximum application rate is 4.0 lbs of CAPTAN 50-W per acre (2.0 lb ai/acre). Do not apply more than 24.0 lbs (12.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 48 hours.

GRAPES (California):

Bunch rot (Botrytis) - Apply 4.0 lbs. CAPTAN 50-W per acre in 20.0 to 200 gallons 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 3.0 to 4.0 lbs. CAPTAN 50-W per acre in 20.0 to 200 gallons 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 is 4.0 lbs of CAPTAN 50-W per acre (2.0 lb ai/acre). Do not apply more than 24.0 lbs (12.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 48 hours.

NECTARINES (U.S.): Brown rot, scab - Apply 4.0 to 8.0 lbs. CAPTAN 50-W per acre in 20.0 to 250 gallons 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-W 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 lbs. sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN 50-W may be reduced to 2.5 lbs. per acre in these sprays. Coryneum blight (peach blight, shothole) - Apply 4.0 to 8.0 lbs. CAPTAN 50-W per acre in 20.0 to 250 gallons of water using ground equipment. Apply to pink bud, full bloom, petal fall and cover sprays as necessary and as a post harvest spray (but before leaves drop).

The maximum application rate is 8.0 lbs of CAPTAN 50-W per acre (4.0 lb ai/acre). Do not apply more than 48.0 lbs (24.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 24 hours.

PEACHES (U.S.): Brown rot, scab - Apply 4.0 to 8.0 lbs. CAPTAN 50-W per acre in 20.0 to 400 gallons 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-W 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 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 12.0 lbs. sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN 50-W may be reduced to 4.0 lbs. per acre in these sprays.

Coryneum blight (peach blight, shothole) - Apply 8.0 lbs. CAPTAN 50-W per acre in 20.0 to 400 gallons 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 is 8.0 lbs of CAPTAN 50-W per acre (4.0 lb ai/acre). Do not apply more than 64.0 lbs (32.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 24 hours.

When applying as directed/banded spray, use band rate of CAPTAN 50-W according to the following formula:

$$\frac{\text{Plant Bed Width (inches)}}{\text{Row Spacing (inches)}} \times \text{Broadcast rate per acre} = \text{Banded rate of CAPTAN 50-W per acre}$$

PLUMS, FRESH PRUNES (Eastern U.S.): Brown rot - Apply 6.0 lbs CAPTAN 50-W per acre in 20.0 to 300 gallons 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 is 6.0 lbs of CAPTAN 50-W per acre (3.0 lb ai/acre). Do not apply more than 54.0 lbs (27.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 24 hours.

PLUMS, FRESH PRUNES (Western U.S.): Brown rot - Apply 4.0 to 6.0lbs. CAPTAN 50-W per acre in 20.0 to 300 gallons 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 4.0 to 6.0 pounds CAPTAN 50-W per acre in 20.0 to 300 gallons of water using ground equipment. Apply at full bloom.

The maximum application rate is 6.0 lbs of CAPTAN 50-W per acre (3.0 lb ai/acre). Do not apply more than 54.0 lbs (27.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 24 hours.

RASPBERRIES, BLACKBERRIES AND DEWBERRIES: For the control of Anthracnose, Botrytis and spur blight – Apply 4.0 lbs of CAPTAN 50-W per acre when blossoms are in bud (young canes are 8 to 10” long). Make second application two weeks later. Apply a fall spray after old canes are removed.

For the control of Fruit rot – Apply 4.0 lbs of CAPTAN 50-W per acre at early bloom (5 to 10% bloom) and again at full bloom. Additional applications can be made at 10- to 14 -day intervals as needed. Do not apply within 3 days of harvest (PHI = 3 days).

Apply CAPTAN 50-W as indicated above in 45.0 to 100 gallons of water per acre using ground equipment. Use the higher volume as foliage increases.

Do not apply more than 20.0 lbs of CAPTAN 50-W per acre per crop cycle (10.0 lbs ai/acre per crop cycle). Note the REI is 48 hours.

STRAWBERRIES: Botrytis (gray mold), leaf spot - Apply by broadcast spray at 3.0 to 6.0 pounds CAPTAN 50-W 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.

Anthracnose Fruit rot (*Colletotrichum acetatum*) – Apply 6.0 lbs CAPTAN 50-W per acre (3.0 lbs ai/acre) in sufficient water for thorough coverage by ground equipment. Begin applications at flower bud emergence. Apply at 7- day intervals through harvest. The maximum application rate is 6.0 lbs of CAPTAN 50-W per acre (3.0 lb ai/acre). Do not apply more than 48.0 lbs (24.0 lbs active ingredient) per acre per season (from pre-bloom to post-harvest). PHI = 0 days. Note the REI is 24 hours.

SPECIAL USES

PEACH PREPLANT ROOT DIP (California): Preventative pre-plant dip treatment for crown gall. Use 4.0 pounds CAPTAN 50-W 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 at a rate of 3.2 pints diluted sodium hypochlorite per 100 gallons of water. Note the REI is 48 hours. Once the treatment and any seeding or transplanting tasks done as part of the treatment are complete, the 48-hour REI begins. Exception, once the seeds or transplants are planted in the soil, the WPS allows workers to enter the treated area without restriction if there will be no contact with the soil subsurface.

POSTHARVEST FRUIT APPLICATION: 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 2.5 lbs CAPTAN 50-W per 100 gallons 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 2.5 lbs CAPTAN 50-W for each 100 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. For use in mechanical fruit-dip operations only. Hand dipping of fruit is prohibited. 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 ornamentals sites: observing all restrictions such as maximum pounds 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 pounds of CAPTAN 50-W per 100 gallons 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.

ORNAMENTALS

USE PRECAUTIONS

Do not apply spray to ornamental plants beyond the point of drip from the leaf surface. When applying as a drench, 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.

POST-APPLICATION/ENTRY RESTRICTIONS

For applications to ornamentals at non-commercial sites. Do not enter or allow others to enter until sprays have dried. The REI for ornamentals grown for commercial or research use is 48 hours.

AZALEAS: Damping off of cuttings - Use 4.0 pounds CAPTAN 50-W per 100 gallons of water. Dip cuttings in the mixture before bedding. Petal Blight - Use 2.0 pounds CAPTAN 50-W per 100 gallons 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 4.0 pounds CAPTAN 50-W per 100 gallons of water. Dip tubers in mixture for 30 minutes, drain and plant.

CAMELIAS: Petal Blight - Use 1.0 pound CAPTAN 50-W per 100 gallons 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 Leaf spot, Rust - Use 2.0 pounds CAPTAN 50-W per 100 gallons 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 4.0 pounds CAPTAN 50-W per 100 gallons of water. Dip cuttings in mixture before bedding.

CHRYSANTHEMUM: Botrytis Flower Blight, Septoria Leaf spot -Use 2.0 pounds CAPTAN 50-W per 100 gallons of water. Apply at first sign of disease. Repeat at 7- to 10- day intervals. Damping-off of cuttings - Use 4.0 pounds CAPTAN 50-W per 100 gallons of water. Dip cuttings in mixture before bedding.

GINSENG (Not for use in California): For control of *Cylindrocarpon* root rot (*Clindrocarpon destructans*), Grey mold (*Botrytis cinerea*), Phytophthora root rot (*Phytophthora cactorum*), Pythium root rot (*Pythium* spp.) and Rhizoctonia root and crown rot (*Rhizoctonia solani*).

Apply 4.0 lbs of CAPTAN 50-W per acre (2.0 lbs ai/acre) every 7- to 10- days or when conditions favor disease development. For control of grey mold, apply as a foliar spray with a minimum of 100 gal/acre. For control of root and crown diseases, apply as a drench with minimum of 200 gal/acre. 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 32.0 lbs of CAPTAN 50-W (16.0 lb ai) per acre per season. Note the REI is 48 hours.

GLADIOLUS (Corms): Corm Rot and Decay, Damping-off - Use 6.0 ounces CAPTAN 50-W per 10.0 gallons of water, dip corms for 20 to 30 minutes. Drain and plant.

ROSES: Black Spot, Botrytis Blossom Blight - Use 2.0 pounds CAPTAN 50-W per 100 gallons 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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Keep pesticide in original container. Store in a cool, dry place and protect from temperatures above 110°F. Protect from freezing temperatures (below 32°F). Do not put concentrate or dilute into food or drink containers.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excessive 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 by shaking and tapping sides and bottom to loosen clinging particles.* Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

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