

PM 23

34704-427

file 145



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

JAN 28 1994

J. ALLEN DUNLAP III  
WILLIAM M. MAHLBURG  
AGENT FOR: PLATTE CHEMICAL CO. INC.  
P.O. BOX 667  
GREELEY, CO. 80632

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 09/21/93 In Response to PR Notice 93-7  
EPA Reg. No. 34704-427  
CAPTAN 50-W FUNGICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

245

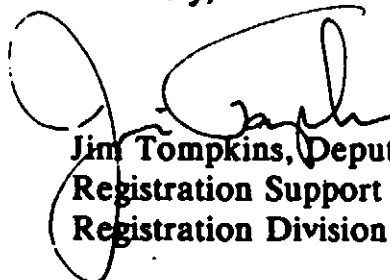
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

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# CAPTAN 50-W

**BEST AVAILABLE COPY**

ACCEPTED  
with COMMENTS  
by EPA Letter Dated

JAN 28 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 34764-427

### For Agricultural or Commercial Use only

ACTIVE INGREDIENTS:	BY WT.
*Captan .....	48.88%
Related Derivatives .....	1.12%
INERT INGREDIENTS: .....	50.00%
TOTAL	100.00%

\*N-Trichloromethylthio-4-cyclohexene-1,2-dicarbonimide

**KEEP OUT OF REACH OF CHILDREN  
DANGER PELIGRO**

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

EPA REG. NO. 34704-427

EPA EST. NO.

NET WEIGHT 30 LBS. (13.61 KG)

3617

0983

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (& DOMESTIC ANIMALS) DANGER

Causes irreversible eye damage. Harmful if swallowed or inhaled. May cause allergic skin reactions. Do not get in eyes. Avoid contact with skin and clothing.

Applicators and other handlers (other than mixers and loaders) must wear long-sleeved shirt and long pants, work gloves, goggles, shoe covers, and protection of hands.

Mixers and loaders must wear long-sleeved shirt and long pants, work gloves, goggles, shoe covers, and protection of hands.

Persons applying this pesticide must wear long-sleeved shirt and long pants, work gloves, goggles, shoe covers, and protection of hands.

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### USER SAFETY RECOMMENDATIONS

Persons applying this pesticide must wear long-sleeved shirt and long pants, work gloves, goggles, shoe covers, and protection of hands.

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### STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of water. Call a physician.  
If swallowed: Call physician or Poison Control Center immediately. Drink promptly a large quantity of milk, egg whites, gelatin solutions, or if

these are not available, drink large quantities of water. Avoid alcohol. Do not give anything by mouth to an unconscious person.  
If inhaled: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.  
If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. For terrestrial uses, 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 clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources.

### DIRECTIONS FOR USE

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

Persons applying this pesticide must wear long-sleeved shirt and long pants, work gloves, goggles, shoe covers, and protection of hands.

### AGRICULTURAL USE REQUIREMENTS

Persons applying this pesticide must wear long-sleeved shirt and long pants, work gloves, goggles, shoe covers, and protection of hands.

### NON-AGRICULTURAL USE REQUIREMENTS

Persons applying this pesticide must wear long-sleeved shirt and long pants, work gloves, goggles, shoe covers, and protection of hands.

### STORAGE AND DISPOSAL

**PESTICIDE STORAGE:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, fold and back bags, clamp and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. In case of spill, avoid contact, isolate area and keep out animals and unprotected

# CAPTAN 50-W

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## Storage and Disposal, Cont'd.

persons. Confine spills. To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents. **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 DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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.

## NOTE TO USER:

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.

Consult State Agricultural Experiment Stations or State Agricultural Extension Service for additional information, as the timing of applications needed will vary with 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 higher 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.

## MIXING INSTRUCTIONS—TYPES OF APPLICATIONS

Applications can be made by aircraft or ground power equipment (including concentrate and semi-concentrate equipment), unless otherwise specified within the crop claim. 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.

## RECOMMENDATIONS

Unless otherwise specified, rates are given in terms of CAPTAN 50-W per 100 gallons water for fruit and nut crops and ornamentals. Maximum permissible rate per acre, per application of CAPTAN 50-W is given in parentheses, ( ), after crop claim. Except as specified, begin applications before or at first sign of disease and repeat as needed to maintain control but observe use limitations. Unless otherwise specified, applications can be made on the day of harvest.

## 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. Do not apply within 30 days of harvest. Hulls may be fed to livestock. (8 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. (9 pounds)

**APPLES (Eastern U.S.):** Primary scab, Black rot (frog-eye), Botrytis blossom rot—Use 1½ 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, Botryosphaera rot, Bitter rot—Use 1 to 2 pounds at 10 to 14 day intervals in second and later cover sprays up to start of harvest. (8 pounds) Powdery mildew—Add 1½ to 3 pounds sulfur or ¼ to ½ pound Karathane® to all post bloom sprays until the foliage matures. Use ½ pound Karathane if interval between sprays is longer than 7 days. Do not use captan in combination with or closely following or in alternation with wettable sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Staygreen, Baldwin, King, etc., as severe injury and defoliation may occur. (8 pounds)

**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 8 pounds per acre. In mid-summer, the dosage may be reduced to 1 pound per 100 gallons in high volume application. Low volume applications of 8 pounds per acre may be made. (Pacific Northwest): Bull's eye rot, Botrytis rot—2 pounds per 100 gallons spray. Make 1 to 2 applications with late cover sprays and 1 to 2 preharvest applications. (8 pounds) **APRICOTS:** Brown rot (twig blight), Jacket rot—Use 5 pounds per acre in 20 to 250 gallons of water. Apply by ground application only. Apply in red bud, bloom, 75% petal fall, and cover stages. (5 pounds)

**BLUEBERRIES (Western U.S.) (except California):** Botrytis Blossom Blight and Fruit Rot, Mummy Berry. Apply 2 to 5 pounds per acre. Begin applications at mid-bloom and repeat at 7-14 day intervals as necessary to maintain control. For severe conditions apply at 7 day intervals. Apply as a spray with ground equipment using sufficient water to obtain thorough coverage of plants. As a dilute ground spray, use a minimum of 200 gallons of spray suspension per acre. As a concentrate ground spray, use a minimum of 20 gallons of spray suspension per acre. For aerial application use sufficient water (5 to 20 gals.) to obtain adequate coverage. (5 pounds)

**BLUEBERRIES (Eastern U.S.):** Botrytis Blossom Blight and Fruit Rot, Mummy Berry. Apply 5 pounds per acre. Begin applications when buds swell or when buds have loose scale and repeat at 7-14 day intervals as necessary to maintain control. For severe conditions apply at 7 day intervals. Apply as a spray with ground equipment using sufficient water to obtain thorough coverage of plants. As a dilute ground spray, use a minimum of 200 gallons of spray suspension per acre. As a concentrate ground spray, use a minimum of 20 gallons of spray suspension per acre. For aerial application use sufficient water (5 to 20 gals.) to obtain adequate coverage. (5 pounds)

**CHERRIES (Eastern U.S.):** Brown rot, leaf spot, Botrytis rot—Use 2 pounds in prebloom, 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. Apply by ground application only. Post harvest sprays—Apply 2 pounds immediately after harvest for leaf spot. Repeat application in 10 to 14 days. Apply by ground application only. (4 pounds)

**CHERRIES (Western U.S.):** Brown rot, Blossom blight, Brown rot (fruit), leaf spot—Use 2 pounds in prebloom, bloom, petal fall, shuck, cover and preharvest sprays. Apply by ground application only. (4 pounds)

**GRAPES (Eastern U.S.):** Black rot, Downy mildew—Use 2 pounds per 100 gallons. Make first application just before bloom, repeat just after bloom and at 10 to 14 day intervals for 1 to 3 more applications depending upon the susceptibility of the grape variety. Phomopsis cane and leaf spot. (Current season infection)—Use 2 to 4 pounds per 100 gallons dilute spray. Apply 50 gallons per acre when shoots are ½ to 1 inch long. Repeat application when shoots are 4 to 6 inches long. (4 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. Phomopsis cane and leaf spot (Current season infection)—Apply 4 pounds per 100 gallons spray. Apply 3 to 4 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. (4 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 control. 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. Apply to nectarines by ground application only. (8 pounds)

**PLUMS, FRESH PRUNES (Eastern U.S.):** Brown rot—Use 2 pounds in full pink, bloom, petal fall sprays. Repeat applications at 7 to 14 day intervals as needed to maintain cover. Continue applications through

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harvest if conditions favor brown rot. The addition of a neutral spreader has improved coverage. Apply by ground application only. (6 pounds)

**PLUMS, FRESH PRUNES (Western U.S.):** Brown rot—Use 2 pounds. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant. Prune russet scab (Lacy scab) (In California)—Apply 2 pounds per 100 gallons water (pounds per acre). Apply at full bloom. Apply by ground application only. (6 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. (6 pounds)

## SPECIAL USES

**Post Harvest Dip:** For control of various molds and storage rots (Botrytis, Gloeosporium, Rhizopus)—Use as a post harvest dip or wash on the following fruits: Apples, Cherries, Pears—Use 2 1/2 pounds. Apply 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 operation.

## 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.

**CAMELIAS:** 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.

**GLADIOLUS (CORNS):** Corn rot and decay, Damping-off—Use 1/2 to 1 1/2 pounds per 100 gallons, dip corns 20 to 30 minutes. Drain and plant.

**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—Use 2 pounds per 100 gallons of water at rate of 15 gallons per 1,000 square feet. Cultivate into upper 3 to 4 inches of soil before planting.

Only the applicator is permitted to be in the greenhouse during application of captan. Open vents to greenhouse during application and for at least 1 hour after application.

Workers planting in captan-treated soil must wear chemical resistant gloves.

## NOTICE

PLATTE WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSES STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL USE CONDITIONS. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE. IN NO CASE SHALL PLATTE BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER. EXCEPT AS EXPRESSLY PROVIDED HEREIN, PLATTE MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE.

\* KARATHANE is a Registered T.M. of Rohm & Haas Co.

FORMULATED FOR  
**PLATTE CHEMICAL CO.**

150 SO. MAIN STREET      FREMONT, NEBRASKA 68025-8697