



CAPTAN 50W

A Fungicide For Plant Disease Control

ACCEPTED
Per Captan
OCT 13 1987
of the Federal
Ida, and R.
oaded, for the
under
No. 45115-8

ACTIVE INGREDIENTS:

*Captan.....48.89%
Related Derivatives..... 1.11%

INERT INGREDIENTS:.....50.00%
TOTAL.....100.00%

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

KEEP OUT OF REACH OF CHILDREN
DANGER / PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado amplifamente.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

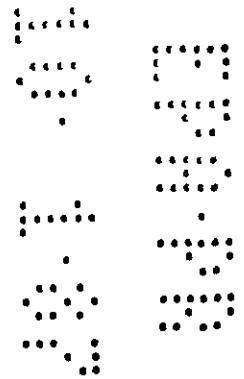
EPA REGISTRATION NUMBER: 45115-8
EPA ESTABLISHMENT NUMBER:

Net Contents: ___ lbs.
 ___ kgs.

MANUFACTURED BY: IDA, INC.
2215 West Street, Suite 2
Germantown, TN 38138

RQ Hazardous Substance,
Solid, N.O.S.
NA 9188 (Captan)

ORM-E



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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER. Causes irreversible eye damage. Harmful if swallowed or inhaled. May cause allergic skin reactions. Do not get in eyes. Wear goggles or face shield when handling. Avoid contact with skin and clothing. Remove and separately launder clothing before reuse.

DO NOT apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of water. Call a physician.

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

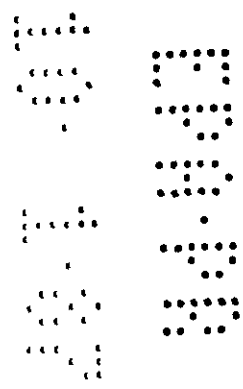
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.



FARMWORKER SAFETY STATEMENTS

DO NOT allow persons to enter treated areas within 4 days following application unless a long-sleeved shirt and long pants or a cover-all that covers all parts of the body except the head, hands and feet and chemically resistant gloves are worn.

Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

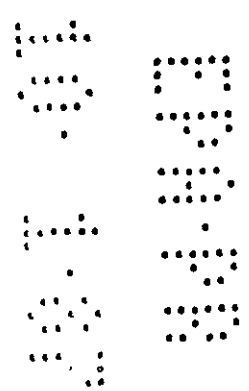
Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried, and appropriate actions to take in case of accidental exposure, as described under Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. "DANGER. Area treated with CAPTAN 50W on [date of application]. Do not enter without appropriate protective clothing for a period of four (4) days. In case of accidental exposure, flush eyes or skin with plenty of water and get medical attention. Remove and wash contaminated clothing before reuse. See container label "Statement of Practical Treatment" for exact instructions."

DIRECTIONS FOR USE

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

GENERAL INFORMATION

Application can be made by aircraft or ground power equipment (including concentrate and semi-concentrate equipment). Pour recommended amount of this material into nearly filled spray tank. Add balance of water. Maintain agitation during filling and spraying operation. Do not allow mixture to stand. Do not combine with emulsifiable liquids or wettable powders unless previous experience has proven them to be physically compatible and safe to plants. (Read compatibility and plant safety information given in next section).

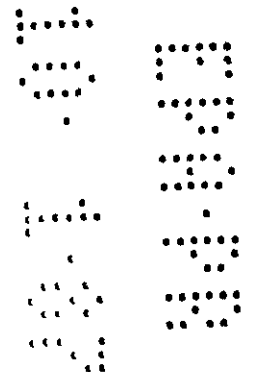


AGRICULTURAL APPLICATIONS:

Wear goggles or face shield when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and separately launder clothing before reuse. Mixers/Loaders when mixing and loading this product must wear a long sleeved shirt and long pants or a coverall that covers all parts of the body except the head, hands and feet. Wear chemical resistant gloves, goggles or a face shield and a chemically resistant apron. Fieldworkers and harvesters must wear chemically resistant gloves. Leather or fabric gloves are not acceptable. A dust mask must be worn when mixing and loading this product.

During application only, from a tractor with a completely enclosed cab or from an aircraft with an enclosed cockpit a long sleeved shirt and long legged pants must be worn. Chemically resistant gloves must be available in the cab or cockpit and worn while exiting.

AFTER WORK: Take off all clothes and shoes. Shower using soap and water. Do not wear contaminated clothing. Wash protective clothing and equipment with soap and water after each use. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with Captan must be destroyed according to state and local regulations.



OBSERVE THE FOLLOWING USE PRECAUTIONS

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 Services for additional information as the timing of application 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 50-W. Do not apply CAPTAN 50-W in combination with or immediately before or closely following oil sprays. The time factor governing the safe interval between CAPTAN 50-W 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 formulations of organic phosphates should not be used. Combinations of CAPTAN 50-W and sulfur should not be used on crops sensitive to sulfur. Used at high rates or in drenching sprays, CAPTAN 50-W 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 50-W and other spray materials at lowest recommended rates and avoid drenching trees.

RECOMMENDATIONS

Unless otherwise specified, rates are given in terms of CAPTAN 50-W per 100 gallons of water for fruit and nut crops and ornamentals. For vegetable crops, rates are expressed as CAPTAN 50-W per acre in sufficient water to provide thorough coverage. Except as specified, begin applications before or at the first sign of disease and repeat as needed to maintain control but observe use limitations. Unless otherwise specified, application can be made on the day of harvest.

Maximum permissible rate per acre, per application CAPTAN 50-W is given in parenthesis () after crop claim.

FRUIT AND NUT CROPS

IMPORTANT: Read label carefully. Although most of the directions on this label may be followed nationwide, a few are limited to Eastern or Western U.S. Follow those directions for your growing area where specified.

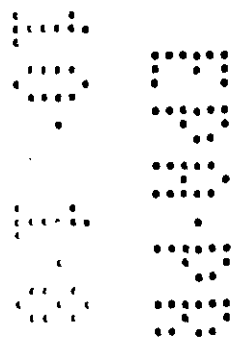
ALMONDS: Brown rot twig and blossom blight, shothole, scab, leaf blight - Use 3 pounds. Apply at popcorn, bloom and petal fall stages and up to 5 weeks after petal fall. Hulls may be fed to livestock. (32 pounds) PHI - 30 days

Subsequent applications may be made up to 12 days before harvest in accordance with pest infestations and State Agricultural Extension Service recommendations, provided the hulls are not fed to dairy animals or animals being finished for slaughter. (32 pounds)

APPLES (Western U.S.): Apple scab - In preblossom sprays, use 2 lbs. per 100 gallons of water in high volume application. In low volume sprays apply 16 pounds per acre. In mid-summer, the dosage may be reduced to 1 pound per 100 gallons in high volume application or 10 pounds per acre in low volume sprays. Bullseye rot, botrytis rot (Pacific Northwest) - 2 pounds per 100 gallons of spray. Make 1 or 2 applications with late cover sprays and 1 to 2 preharvest applications. (16 pounds)

APPLES (Eastern U.S.): Primary scab, black rot (frog-eye), botrytis blossom-end rot - 1 1/2 to 2 pounds at 5 to 7 day intervals as needed to maintain cover and prebloom, bloom, petal fall and first cover sprays. Use at 2 pound rate if conditions favor scab or if active scab can be found. Secondary scab, brooks fruit spot, sooty blotch, fly speck, black rot, black pox, botryosphaeria rot, bitter rot - 1 to 2 pounds at 10 to 14 day intervals in second and later cover sprays up to the start of harvest. (16 pounds)

Powdery Mildew - If powdery mildew is a problem add 1 1/2 to 3 pounds of sulfur or 1/4 to 1/2 pound Karathane* to all prebloom and bloom sprays and 1/2 to 1 pound Karathane* to all postbloom sprays until the foliage matures. Use 1/2 pound Karathane* if intervals between sprays is longer than 7 days. CAUTION - 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, Stayman, Baldwin, King, etc., as severe injury and defoliation may occur.

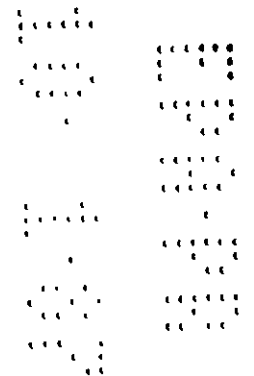


APRICOTS: Brown rot (twig blight), jacket rot - Use 2 pounds. Apply in red bud, bloom, 75% petal fall, and cover stages. (10 pounds)

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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. (20 pounds)

CHERRIES (Eastern U.S.): Brown rot, leaf spot, Botrytis rot - Use 2 pounds in prebloom, bloom, petal fall, shuck, cover and preharvest sprays. Application at 3 to 4 day intervals may be necessary during bloom to control blossom blight. Repeat application at 7 to 10 day intervals as needed to maintain cover up to start of the 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 50-W may be reduced to 1 pound in these sprays. Postharvest sprays - Apply 2 pounds immediately after harvest for leaf spot. Repeat application in 10 to 14 days. (20 pounds)

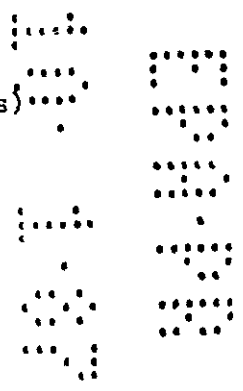
U.S. DEPARTMENT OF AGRICULTURE, AGRICULTURAL RESEARCH SERVICE



GRAPES (California): Bunch rot (Botrytis) - Apply 2 pounds per acre. Make 2 applications before bloom and 1 just after bloom. Repeat periodically making 3 cover applications before the bunches close. Dead arm (current season infection) - Apply 4 pounds per 100 gallons spray. Apply 3 to 6 pounds per acre by ground equipment. Apply 4 pounds in 7 to 20 gallons of water per acre by aircraft. Apply first spray when green tissue begins to show but before shoots are 1 inch long. Apply second spray when shoots are 6 to 8 inches long. (10 pounds)

GRAPES (Eastern U.S.): Black rot, downy mildew - Apply 2 pounds per 100 gallons. Make first application just before bloom, repeat just after bloom at 10 to 14 day intervals for 1 to 3 more applications depending upon the susceptibility of the grape variety. Dead arm (current season infection) - Use 2 to 4 pounds per 100 gallons dilute spray. Apply 50 gallons per acre when shoots are 1/4 to 1 inch long. Repeat application when shoots are 4 to 6 inches long. (10 pounds)

PEACHES, NECTARINES: Brown Rot, Scab - Use 2 pounds in full pink, bloom, petal fall, shuck, cover and preharvest sprays. Applications at 3 to 4 day intervals may be necessary during bloom to control blossom blight. Repeat application at 7 to 14 day intervals as needed to maintain cover. Continue applications through harvest if conditions favor brown rot. If powdery mildew is a problem add 3 pounds sulfur to the petal fall, shuck and early cover sprays. If sulfur is added, CAPTAN 50-W may be reduced to 1 pound in these sprays. Coryneum blight (peach blight, shothole) - Use 2 pounds. Apply in pink bud, full bloom, petal fall and cover periods as necessary and as a postharvest spray (but before leaves drop). (10 pounds)



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PEARS (Western U.S. - except Pacific Northwest): Pear scab - Use 2 pounds. Apply during early finger stage, petal fall and first cover sprays. Under severe scab infection conditions additional treatments may be necessary. Russetting may be reduced on Bosc pears. Do not use on D'Anjou pears. (16 pounds)

PEARS (Eastern U.S.): Scab - Use 2 pounds in preblossom, petal fall and cover sprays. Repeat cover application at 7 to 14 day intervals and under severe scab conditions. Russetting may be reduced on Bosc pears. Do not use on D'Anjou pears. (16 pounds)

PLUMS, PRUNES (Western U.S.): Brown rot - Use 2 pounds. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant. Prune russet scab (lacy scab) (in California) - Apply 2 pounds per 200 gallons of water (8 pounds per acre). Apply at full bloom. (10 pounds)

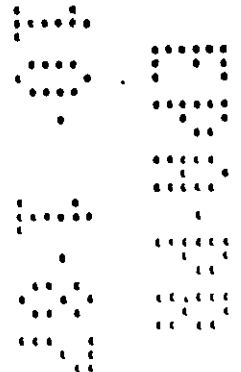
PLUMS, PRUNES (Eastern U.S.): Brown rot - Use 2 pounds in full pink, bloom and petal fall sprays. Repeat application at 7 to 14 day intervals as needed to maintain cover. Continue applications through harvest if conditions favor brown rot. Addition of a neutral spreader has improved coverage. (10 pounds)

STRAWBERRIES: Botrytis (gray mold), leaf spot - Apply 6 pounds per acre in sufficient water for thorough coverage. Begin applications when new growth starts in the spring and before fruit starts to form. Repeat at weekly intervals. Under conditions favorable to fruit rot continue applications through harvest period treating immediately after each picking. (8 pounds)

VEGETABLE CROPS

CANTALOUPE, CUCUMBER

Angular leaf spot, anthracnose - Use 4 pounds per acre in sufficient water for thorough coverage. Begin application at first signs of infection and repeat at 5 to 7 day intervals or as needed to maintain control. (7.6 pounds)

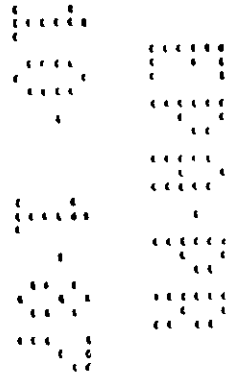


POTATOES (Seed piece): Brown eye, damping-off, seed rot, Verticillium wilt - Use 1 to 3 pounds per 100 gallons, or 1.5 to 2.88 ounces per bushel as a dust. Dip or dump seedpieces before planting. Cut pieces should be treated within 6 hours of cutting. If planting is delayed more than one or two days, treated pieces should be stored 2 days in open crates before bagging.

TOMATO: Anthracnose, gray leaf spot, Septoria leaf spot - Use 4 to 6 pounds per acre in sufficient water for thorough coverage. Under severe infection conditions use 6 to 8 pounds per acre in sufficient water for thorough coverage. Apply at first signs of infection and repeat at 5 to 7 day intervals or as needed to maintain control.
(10 pounds)

POST HARVEST DIP: For control of various molds and storage rots (Botrytis, Gleosporium, Rhizopus). Use as a post harvest dip or wash on the following fruits and vegetables: Apples,
Cherries,

Pears Peaches,
- Use 2½ pounds. Apply as a spray or in dip tank. When used as a dip, recharge wash solution periodically when the tank volume is reduced by 25%. Bring water back to volume and add 1 pound for each 25 gallons added. At the end of every 8 hour shift, empty tank, flush and charge with fresh dilution. Do not allow dip tank solution to stand over night. Maintain continuous agitation during dipping operation.



STORAGE AND DISPOSAL

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

STORAGE INSTRUCTIONS

Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool dry area away from any heat or ignition source. Do not allow storage in a damp or humid area. Do not stack bags over 2 pallets high. Move bags carefully so as not to tear or puncture. Do not move from one area to another unless they are securely sealed to prevent dust from escaping. Keep container tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Avoid contamination with acids and alkalis. Store in original containers only. If the contents are leaking or material is spilled follow these steps:

1. Collect and place in suitable containers for disposal.
2. Wash area with water and soap to remove remaining pesticide.
3. Follow washing with clear water rinse.
4. Do not allow runoff to enter sewer or contaminate water supplies.
5. Dispose of waste as indicated below:

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.

WARRANTY - CONDITION OF SALE:

OUR RECOMMENDATIONS FOR USE of this product are based upon test believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the seller and is accepted as such by the Buyer.

