

Reg # 10182-164

PM 23

175



# Captan 80-WP

## A Fungicide For Plant Disease Control

Active Ingredients:	
*CAPTAN .....	78.3%
Related Derivatives .....	1.8%
Inert Ingredients: .....	19.9%
<b>Total</b>	<b>100.0%</b>

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

CAPTAN 80-WP is a microfine wettable powder for use in water as a spray for the control of certain fungal diseases of fruit, and ornamental crops, and as a soil treatment for the control of certain seed rots and damping-off diseases.

Keep Out of Reach of Children

**DANGER  
PELIGRO**

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

Causes Irreversible Eye Damage

### STATEMENT OF PRACTICAL TREATMENT

**First Aid:** If a known exposure occurs or is suspected, immediately start the procedures given below and contact a POISON CENTER, PHYSICIAN, OR THE NEAREST HOSPITAL. Describe the type and extent of exposure, the victim's symptoms and follow the advice given.

**If in eyes:** Flush with plenty of water. Call a physician.

**If swallowed:** Drink promptly a large quantity of milk, egg whites, gelatin solutions, or if these are not available, drink large quantities of water. Avoid alcohol.

**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 abnormal reaction occurs.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).**

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

10-19-90



EPA Reg. No.  
10182-164

EPA Est. No.  
51036 GA-1

5905 AR-1

477 TX-1

477 MD-1

Superscript corresponds  
to the first letter  
of the lot number  
of this package

**30 LBS. NET 13.6 KG**

059005

**NOT REVIEWED**  
In Accordance with PR Notice 83-2.  
Based on Data Submitting Dated 8/10/90  
GREEN PMS 3405

# Captan 80-WP

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### DANGER

Causes immediate 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. Avoid inhalation of dust or spray mist. Remove and carefully launder clothing before reuse.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bays, marshes, and salt marshes). Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not clean equipment or dispose of equipment wastewater in a manner that will contaminate water resources.

### STORE IN COOL, DRY PLACE — PROTECT FROM EXCESSIVE HEAT

This product is sold only for uses stated on its label. No express or implied warranty is given for use of this product under any patent in any country except as specified. Country: United States.

### DIRECTIONS FOR USE

See a copy of Federal law to use this product in a manner inconsistent with its labeling.

Read all precautions and directions for use before using. Use only for claims listed and only as specified on this label.

Do not allow pesticide residues on food and forage crops will not exceed tolerance, use only at recommended rates and intervals, and do not exceed tolerance when specified. Do not apply or allow to drift to adjoining lawns or pasture areas.

All State Agricultural Experiment stations or State Agricultural Extension offices for additional information, as the name of applications needed will vary with the local conditions.

**COMPATIBILITY AND PLANT SAFETY:** CAPTAN 80-WP can be combined safely and effectively at recommended dosage rates with most commonly used fungicides and insecticides, with the exception of oil and strongly alkaline materials. Alkaline materials such as spray lime, lime-sulfur and Bordeaux mixtures will reduce the fungicidal activity of CAPTAN 80-WP. Do not apply CAPTAN 80-WP in combination with or immediately before or closely following of growth. The time factor governing the safe interval between CAPTAN 80-WP and other sprays varies due to general climatic conditions, therefore, consult local agricultural spray programs and authorities to determine the proper timing. The use of sprayers which cause excessive wetting is not advised. Combinations with solvent formulations of organic phosphates should not be used. Combinations of CAPTAN 80-WP and sulfur should not be used on crops sensitive to sulfur dust at high rates or in drizzling sprays. CAPTAN may cause a necrotic spotting of tender, mature 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 80-WP and other spray materials at lowest recommended rates and avoid drizzling trees.

Applications can be made by aircraft (except not for sprays, cherries, peaches, plums and fresh prunes) or ground power equipment (including concentrate and semi-concentrate equipment). Four 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.)

For aerial or concentrate spray applications, apply the same amount of CAPTAN 80-WP per acre as would normally be applied for dilute spray applications. Apply aerial or concentrate sprays in sufficient water for coverage. Use spray volumes of 5 to 20 gallons per acre for aerial applications. Do not apply this product through any type of irrigation system.

### USE PRECAUTIONS

Wash goggles or face shield when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and separately launder before reuse.

At least 100 feet when mixing and loading the product.

Wear goggles when mixing and loading the product. 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.

Respirators and harvesters must wear chemical resistant gloves if entering treated areas within 4 days following applications. Leather or fabric gloves are not acceptable.

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 flying.

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.

**AFTER WORK:** Take off all clothes and shoes. Shower with 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 damaged with CAPTAN must be destroyed according to state and local regulations.

### RE-ENTRY STATEMENT

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.

Do not allow persons to enter treated areas within 4 days following application unless a long-sleeved shirt and long pants or a coverall that covers all parts of the body except the head, hands and feet and chemically resistant gloves are worn. Consult your local re-entry information at site of application.

Certain states may require more restrictive re-entry intervals for various uses treated with the 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 be given if there is reason to believe that written warnings cannot be understood by workers.

### USE PRECAUTIONS

Except as specified begin applications before or at first sign of disease and repeat as needed to maintain a level but observe use limitations. Unless otherwise specified, application can be made on the day of harvest. Apply the high rate when climatic conditions most favor disease and the low rate when climatic conditions least favor disease. If you are unsure of the climatic conditions favorable for disease, consult the specific use label, 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 these directions for your growing area where specified.

**ALMONDS:** Brown rot and blossom blight, shothole, scab, leaf blight—Apply 5½ pounds CAPTAN 80-WP per acre in 20 to 300 gallons of water using ground equipment. Apply at pre-bloom, bloom and post-bloom stages and up to 5 weeks after petal fall. Do not apply within 30 days of harvest. Halls may be fed to livestock. Sulfur dust applications may be made up to 12 days of harvest in accordance with post-harvest and state agricultural extension service recommendations, provided the hulls are not fed to dairy animals or animals being finished for slaughter.

**APPLES (Eastern U.S.):** Primary scab, black rot (frog-eye), botrytis blossom-and-rot—Apply 3½ pounds CAPTAN 80-WP per acre in 20 to 400 gallons of water using ground equipment. Apply at 7 to 10 day intervals as needed to maintain control in pre-bloom, bloom, petal fall and first cover sprays.

Secondary scab, Brodiaea fruit spot, sooty blotch, fly speck, black rot, black rot, botrytis blossom-and-rot—Apply 2½ to 3½ pounds CAPTAN 80-WP per acre in 20 to 400 gallons of water using ground equipment. Apply at 10 to 14 day intervals in second and later cover sprays. Do not apply within 14 days of harvest. Do not apply more than 37.5 pounds of CAPTAN 80-WP per acre per year.

**Powdery mildew—**if powdery mildew is a problem add 6 to 12 pounds sulfur per acre or 1 to 2 pounds of Karathane per acre to all post-bloom sprays until foliage matures. Use 2 pounds Karathane per acre if interval between sprays is longer than 7 days. **CAUTION—**Do not use CAPTAN 80-WP in combination with or closely following or in alternation with volatile sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Stayman, Baldwin, King, etc. as severe injury and distortion may occur.

**APPLES (Western U.S.):** Primary scab—Apply 3½ pounds CAPTAN 80-WP per acre in a high volume application for pre-bloom sprays. In mid-summer, the dosage may be reduced to 2½ pounds per acre in high volume applications. (Pacific Northwest) Bull's eye rot, Botrytis rot—Apply 3½ pounds CAPTAN 80-WP per acre in 20 to 400 gallons of water using ground equipment. Make 1 or 2 applications with late cover sprays and 1 final spray prior to harvest. Do not apply within 14 days of harvest. Do not apply more than 37.5 pounds of CAPTAN 80-WP per acre per year.

**APRICOTS:** Brown rot (wing blight), jacked rot—Apply 3½ pounds CAPTAN 80-WP per acre in 20 to 250 gallons of water using ground equipment. Apply in red bud bloom, 75% petal fall, and cover sprays. Do not apply by aerial application to apricots.

**BLUEBERRIES (Western U.S.):** Botrytis gray mold or berry rot, mummy berry—Apply 1½ pounds CAPTAN 80-WP per acre in sufficient water for thorough coverage. Begin at mid-bloom, repeat at 7 to 10 day intervals until maturity.

**BLUEBERRIES (Eastern U.S.):** Botrytis gray mold or berry rot, mummy berry—Apply 3½ pounds CAPTAN 80-WP per acre in sufficient water for thorough coverage. Start spray program when buds swell and earliest buds have loose scales. Repeat at 7 day intervals through blossom period. Repeat at 7 to 10 day intervals from late bloom.

**CHERRIES (Eastern U.S.):** Brown rot, leaf spot, Botrytis rot—Apply 2½ pounds CAPTAN 80-WP per acre in 20 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 10 day intervals as needed to maintain control up to start of harvest. If powdery mildew is a problem add 6 pounds sulfur per acre to the petal fall, shuck or early cover sprays. If sulfur is added, CAPTAN 80-WP may be reduced to 1½ pounds per acre in these sprays. Post harvest sprays leaf spot—Apply 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water using ground equipment. Apply immediately after harvest and repeat application in 10 to 14 days. Do not apply by aerial application to cherries.

**CHERRIES (Western U.S.):** Brown rot blossom blight, brown rot (fruit, leaf spot)—Apply 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water using ground equipment. Apply in pre-bloom, bloom, petal fall, shuck, cover and pre-harvest sprays. Do not apply by aerial application to cherries.

**GRAPES (Eastern U.S.):** Black rot, downy mildew—Apply 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water using ground equipment. Make first application just before bloom, repeat just after bloom and at 10 to 14 day intervals for 1 to 3 additional applications depending upon the susceptibility of the grape variety. Dead Arm (sour rot) (season infection)—Apply 1½ to 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water using ground equipment. Apply first application when shoots are ½ to 1 inch long. Repeat application when shoots are 4 to 6 inches long. Do not apply more than 15 pounds of CAPTAN 80-WP per acre per year.

Continued on side panel

RO, Hazardous Substance, Solid, N.O.S.  
(CAPTAN), NA8188



Agricultural Products

ICI Americas Inc.  
Wilmington, Delaware 19897

Made in U.S.A. by

Continued from back panel

**GRAPES (California):** Bunch rot (Botrytis)—Apply 2½ pounds CAPTAN 80-WP per acre in 20 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 harvest stage. Dead Arm (sour rot) (season infection)—Apply 2 to 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water using ground equipment. Apply 2½ pounds CAPTAN 80-WP per acre in 7 to 20 gallons of water by aerial. Apply first spray when green leaves begin to show but before shoots are 1 inch long and repeat application when shoots are 6 to 8 inches long. Do not apply more than 15 pounds of CAPTAN 80-WP per acre per year.

**NECTARINES:** Brown rot, scab—Apply 5 pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water using ground equipment. Apply in full pink, 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 application at 7 to 14 day intervals as needed to maintain control. Consume applications throughout harvest if conditions favor brown rot. If powdery mildew is a problem, add 7½ pounds sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN 80-WP may be reduced to 2½ pounds per acre in these sprays.

**Coryneum blight (peach blight, shothole)—**Apply 5 pounds CAPTAN 80-WP per acre in 20 to 250 gallons of water using ground equipment. Apply in pink bud, full bloom, petal fall and cover sprays as necessary and as a post harvest spray (but before leaves drop). Do not apply by aerial application to nectarines.

**PEACHES:** Brown rot, scab—Apply 5 pounds CAPTAN 80-WP per acre in 20 to 400 gallons of water using ground equipment. Apply in full pink, bloom, petal fall, shuck stages and in cover and pre-harvest sprays. Repeat periodically making 3 cover applications before the harvest stage. Dead Arm (sour rot) (season infection)—Apply 2 to 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water by aerial. Apply first spray when green leaves begin to show but before shoots are 1 inch long and repeat application when shoots are 6 to 8 inches long. Do not apply more than 15 pounds of CAPTAN 80-WP per acre per year.

**PEACHES (PLUMBERRY STOCK) (California):** Preventive pre-bloom dip treatment for crown gall. Use 2½ pounds CAPTAN 80-WP plus 3.2 parts 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 3 minutes. Recharge dip during operation as needed to maintain a proper concentration of 200 ppm chlorine. Check the color relation frequently using a chlorine test kit.

**PLUMS, FRESH PRUNES (Eastern U.S.):** Brown rot—Apply 3½ pounds CAPTAN 80-WP per acre in 20 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. Consume applications through harvest if conditions favor brown rot. This application is a neutral spreader has improved coverage. Do not apply by aerial application to plums or fresh prunes.

**PLUMS, FRESH PRUNES (Western U.S.):** Brown rot—Apply 3½ pounds CAPTAN 80-WP per acre in 20 to 300 gallons of water using ground equipment. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant. Prune root system if necessary. (California only)—Apply 3½ pounds CAPTAN 80-WP per acre in 20 to 300 gallons of water using ground equipment. Apply at 1 to 2 day intervals as needed to maintain control to plums or fresh prunes.

**STRAWBERRIES:** Botrytis (gray mold), leaf spot—Apply 3½ pounds CAPTAN 80-WP per acre in sufficient water for thorough coverage. Begin applications when new growth starts in the spring and before it starts to form. Repeat at weekly intervals. Under conditions favorable to rot, continue applications through harvest period treating immediately after each picking.

### SPECIAL USES

**POST-HARVEST DIP:** For control of various molds and storage rot (Botrytis, Gloeosporium, Rhizopus). Use as a post harvest dip or wash on the following fruits: Apples, Cherries, Peaches—Use 1-3/5 pounds CAPTAN 80-WP per 100 gallons of water. Apply as a spray or in a dip tank. When used as a dip, change wash solution periodically when tank volume is reduced by 25%. Bring water back to volume and add ½ pound CAPTAN 80-WP for each 25 gallons added. At end of every 8 hour shift, empty tank, flush and change with fresh solution. Do not allow dip tank solution to stand overnight. Maintain continuous agitation during dipping operation.

CAPTAN wastes are severely hazardous. Improper disposal of spray or dip tank mixtures is a violation of Federal Law. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance concerning the disposal of spray or excess dip tank mixtures.

### 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 empty containers may constitute 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 of the nearest EPA Regional Office for guidance.

**EMPTY CONTAINER DISPOSAL:** Do not reuse container. Completely empty container into application equipment. Then dispose of empty container in a tightly sealed or by incineration, or if allowed by State and local authorities by burning if burned. Any out of state.

**NOTICE TO BUYER AND USER:** Seller warrants that this product conforms to the official description in the label and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller, Buyer and User assumes the risk of any damage, including any claim of fitness or merchantability. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

GREEN PMS 3405

# ***Captan* 80-WP**

44  
00001

out 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.

**ALMONDS:** Brown rot twig and blossom blight, shot-hole, scab, leaf blight—Apply 8½ pounds CAPTAN 80-WP per acre in 20 to 300 gallons of water using ground equipment. 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. Subsequent applications may be made up to 12 days of harvest in accordance with petal infestations and state agricultural extension service recommendations, provided the hulls are not fed to dairy animals or animals being finished for slaughter.

**APPLS (Eastern U.S.):** Primary scab, black rot (Rogey), botrytis blossom-and-rot—Apply 3½ pounds CAPTAN 80-WP per acre in 20 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, Brodiaea fruit spot, sooty blotch, fly spurt, black rot, black rot, botrytis scab, black rot, bitter rot—Apply 2½ to 3½ pounds CAPTAN 80-WP per acre in 20 to 400 gallons of water using ground equipment. Apply at 10 to 14 day intervals in second and later cover sprays. Do not apply within 14 days of harvest. Do not apply more than 37.5 pounds of CAPTAN 80-WP per acre per year.

Powdery mildew—If powdery mildew is a problem add 6 to 12 pounds sulfur per acre or 1 to 2 pounds of Kanthene per acre to all prebloom sprays until foliage matures. Use 2 pounds Kanthene per acre if interval between sprays is longer than 7 days. **CAUTION—**Do not use CAPTAN 80-WP 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. to severe injury and defoliation may occur.

**APPLES (Western U.S.):** Primary scab—Apply 3½ pounds CAPTAN 80-WP per acre in a high volume application for pre-blossom sprays. In mid-summer, the dosage may be reduced to 2½ pounds per acre in high volume applications. (Pacific Northwest) —Bull's eye rot, Botrytis rot—Apply 3½ pounds CAPTAN 80-WP per acre in 20 to 400 gallons of water using ground equipment. Make 1 or 2 applications with late cover sprays and 1 final spray prior to harvest. Do not apply within 14 days of harvest. Do not apply more than 37.5 pounds of CAPTAN 80-WP per acre per year.

**APRICOTS:** Brown rot (twig blight), jacked rot—Apply 3½ pounds CAPTAN 80-WP per acre in 20 to 250 gallons of water using ground equipment. Apply in red bud, bloom, 75% petal fall, and cover sprays. Do not apply by aerial application to apricots.

**BILBERRIES (Western U.S.):** Botrytis gray mold or berry rot, mummy berry—Apply 1½ pounds CAPTAN 80-WP per acre in sufficient water for thorough coverage. Begin at mid-bloom, repeat at 7 to 10 day intervals until maturity.

**BILBERRIES (Eastern U.S.):** Botrytis gray mold or berry rot, mummy berry—Apply 3½ pounds CAPTAN 80-WP per acre in sufficient water for thorough coverage. Start spray program when buds swell and earliest buds have loose scales. Repeat at 7 day intervals through blossom period. Repeat at 7 to 10 day intervals from late bloom.

**CHERRIES (Eastern U.S.):** Brown rot, leaf spot, Botrytis rot—Apply 2½ pounds CAPTAN 80-WP per acre in 20 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 10 day intervals as needed to maintain control up to start of harvest. If powdery mildew is a problem add 6 pounds sulfur per acre to the petal fall, shuck or early cover sprays. If sulfur is added, CAPTAN 80-WP may be reduced to 1½ pounds per acre in these sprays. Post harvest sprays: leaf spot—Apply 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water using ground equipment. Apply immediately after harvest and repeat application in 10 to 14 days. Do not apply by aerial application to cherries.

**CHERRIES (Western U.S.):** Brown rot blossom blight, brown rot (fruit), leaf spot—Apply 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water using ground equipment. Apply in pre-bloom, bloom, petal fall, shuck, cover and pre-harvest sprays. Do not apply by aerial application to cherries.

**GRAPES (Eastern U.S.):** Black rot, downy mildew—Apply 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons water using ground equipment. Make first application just before bloom, repeat just after bloom and at 10 to 14 day intervals for 1 to 3 additional applications depending upon the susceptibility of the grape variety. Dead Arm (current season infection)—Apply 1½ to 2½ pounds CAPTAN 80-WP per acre in 20 to 200 gallons of water using ground equipment. Apply first application when shoots are ½ to 1 inch long. Repeat application when shoots are 4 to 6 inches long. Do not apply

Continued on other side panel

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

**CAPTAN 80-WP** is a microfine wettable powder for use in water as a spray for the control of certain fungal diseases of fruit, and ornamental crops, and as a soil treatment for the control of certain seed rots and damping-off diseases.

Keep Out of Reach of Children

**DANGER  
PELIGRO**

Causes Irreversible Eye Damage

**PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.**

#### STATEMENT OF PRACTICAL TREATMENT

**First Aid:** If a known exposure occurs or is suspected, immediately start the procedures given below and contact a POISON CENTER, PHYSICIAN, OR THE NEAREST HOSPITAL. Describe the type and extent of exposure, the victim's symptoms and follow the advice given.

If in eyes: Flush with plenty of water. Call a physician.

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

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 abnormal reaction occurs.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-A-E-D (327-8633).**

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

### 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. Avoid inhalation of dust or spray mist. Rinse eye and separately launder clothing before reuse.

#### Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources.

#### STORE IN COOL, DRY PLACE — PROTECT FROM EXCESSIVE HEAT

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified. Country: United States



EPA Reg. No. 10182-164

EPA Est. No.

51038<sup>®</sup> GA-1

5905<sup>®</sup> AR-1

477<sup>®</sup> TX-1

477<sup>®</sup> MD-1



**Agricultural Products**

ICI Americas Inc.  
Wilmington, Delaware 19897

Superscript corresponds to the first letter of the lot number of this package.

Made in U.S.A. By

©ICI Americas, Inc. 1990

**NOT REVIEWED**

In Accordance with FR Notice 82-2.  
Based on Draft Labeling Dated 8/11/90

089006

585

# Captan 80-WP

A Fungicide For Plant Disease Control

# Captan 80-WP

A Fungicide For Plant Disease Control

### DIRECTIONS FOR USE

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

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 time of applications needed will vary with the local conditions.

**COMPATIBILITY AND PLANT SAFETY:** CAPTAN 80-WP can be combined safely and effectively at recommended dosage rates with most commonly used fungicides and insecticides, with the exception of oil and strongly alkaline materials. Alkaline materials such as spray lime, lime-sulfur and bordeaux mixture will reduce the fungicidal activity of CAPTAN 80-WP. 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 aircraft (except not for apricots, cherries, nectarines, plums and fresh prunes) or ground power equipment (including concentrate and semi-concentrate equipment). Pour recommended amount of this material into nearly filled spray tank. Add balance of water. Maintain agitation during filling and spraying operations. Do not allow mixture to stand. Do not combine with emulsifiable liquids or wettable powders unless previous experience has proven them to be physically compatible and safe to plants. (Read compatibility and plant safety information.)

For aerial or concentrate spray applications, apply the same amount of CAPTAN 80-WP per acre as would normally be applied for dilute spray applications. Apply aerial or concentrate sprays in sufficient water for coverage. Use spray volumes of 5 to 20 gallons per acre for aerial applications.

Do not apply this product through any type of irrigation system.

### USE PRECAUTIONS

Wear goggles or face shield when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and separately launder clothing before reuse.

A dust mask must be worn when mixing and loading this product.

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 chemical resistant gloves if entering treated areas within 4 days following applications. Leather or fabric gloves are not acceptable.

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.

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.

**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 treatment should 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.

### RE-ENTRY STATEMENT

- 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.
- Do not allow persons to enter treated areas within 4 days following application unless a long-sleeved shirt and long pants or a coverall that covers all parts of the body except the head, hands and feet, chemically resistant gloves are worn. Conspicuously post reentry information at site of application.
- Certain sites may require more restrictive reentry 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 in an area not to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

### 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 DISPOSAL:** Do not reuse container. Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**NOTICE TO BUYER AND USER:** Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

Continued from other side panel

more than 15 pounds of CAPTAN 80-WP per acre per year.

**GRAPES (California):** Bunch rot (Botrytis)—Apply 2½ pounds CAPTAN 80-WP per acre in 30 to 300 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. Dead Arm (fungal rot)—Apply 2½ to 2½ pounds CAPTAN 80-WP per acre in 30 to 300 gallons of water using ground equipment. Apply 2½ pounds CAPTAN 80-WP per acre in 7 to 30 gallons of water by aircraft. 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. Do not apply more than 15 pounds of CAPTAN 80-WP per acre per year.

**NECTARINES:** Brown rot, scab—Apply 5 pounds CAPTAN 80-WP per acre in 30 to 250 gallons of water using ground equipment. 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. Continuing applications throughout harvest if conditions favor brown rot. If powdery mildew is a problem, add 7½ pounds sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN 80-WP may be reduced to 2½ pounds per acre in these sprays.

**Coryneum blight (peach blight, shot-hole):**—Apply 5 pounds CAPTAN 80-WP per acre in 30 to 250 gallons of water using ground equipment. Apply in pink bud, full bloom, petal fall and cover sprays as necessary and as a post harvest spray (but before leaves drop). Do not apply by aerial application to nectarines.

**PEACHES:** Brown rot, scab—Apply 5 pounds CAPTAN 80-WP per acre in 30 to 400 gallons of water using ground equipment. Apply in full pink, bloom, petal fall, shuck stages and in 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. Continuing applications through harvest if conditions favor brown rot. If powdery mildew is a problem, add 12 pounds sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN 80-WP may be reduced to 2½ pounds per acre in these sprays. Coryneum blight (peach blight, shot-hole):—Apply 5 pounds CAPTAN 80-WP per acre in 30 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).

**PEACHES (NUSSERY STOCK) (California):** Preventative preplant dip treatment for crown gall. Use 2½ pounds CAPTAN 80-WP plus 3.2 parts diluted sodium hypochlorite (5.25% household bleach) per 100 gallons water. Wash nursery trees to remove soil from roots. Cut off all dormant buds and suckers in crown area and prune root system if necessary. Submerge the entire dormant tree for 5 minutes. Recharge dip during operation as necessary to maintain a proper concentration of 200 ppm chlorine. Check the concentration frequently using a chlorine test kit.

**PLUMS, FRESH PRUNES (Eastern U.S.):** Brown rot—Apply 3½ pounds CAPTAN 80-WP per acre in 30 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. Continuing applications through harvest if conditions favor brown rot. The addition of a neutral spreader has improved coverage. Do not apply by aerial application to plums or fresh prunes.

**PLUMS, FRESH PRUNES (Western U.S.):** Brown rot—Apply 3½ pounds CAPTAN 80-WP per acre in 30 to 300 gallons of water using ground equipment. Apply at green bud, blossom, bloom and petal fall stages. Repeat in cover sprays as conditions warrant. Prune nasal scab (fuzzy scab) (in California only)—Apply 3½ pounds CAPTAN 80-WP per acre in 30 to 300 gallons of water using ground equipment. Apply at full bloom. Do not apply by aerial application to plums or fresh prunes.

**STRAWBERRIES:** Botrytis (gray mold), leaf spot—Apply 3½ pounds CAPTAN 80-WP 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.

### 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, Peaches—Use 1-3/8 pounds CAPTAN 80-WP 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 20%. Bring water back to volume and add 5/8 pound CAPTAN 80-WP for each 25 gallons added. At end of every 8 hour shift, empty tank, flush and charge with fresh dilution. Do not allow dip tank solution to stand overnight. Maintain continuous agitation during dipping operation.

CAPTAN wastes are acutely hazardous. Improper disposal of spray or dip tank residues is a violation of Federal Law. 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 spray or dip tank residues.