

Ms. Barbara Brown  
Drexel Chemical Company  
P.O. Box 9306  
2487 Pennsylvania St.  
Memphis, TN 38190-0306

Dear Ms. Brown:

Subject: CAPTAN 60W Fungicide  
EPA Registration No. 19713-362  
Application Dated January 18, 1994, Request To  
Amend Labeling To Reflect EPA Worker Protection  
Standard Requirements, with Certification

The subject labeling submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended is acceptable provided that you:

1. In compliance with PR Notice 93-8, delete the phrase "For terrestrial uses" from the wetland statement in the Environmental Hazards section, because there are no directions for aquatic uses for this product.
2. Add a second exception within the enclosed box for Agricultural Use Requirements that reads:  
"EXCEPTION: The restricted entry interval (REI) for STRAWBERRIES is 24 hours. After expiration of the 24 hour period, no personal protective equipment is required."

See enclosed copy of letter to the Captan Task Force which allows this deviation to the WPS requirements.

3. Submit five (5) printed copies of the final printed label before releasing the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA,

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section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Because of over tolerance occurring in strawberries this past season in the State Florida, we foresee some required amendments for the strawberry use-pattern. You should consider this possibility in your decisions involving the numbers of this label to print.

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (H-7505C)

Enclosures

E.wilson:DisketteABC12:05-26-94

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MAY 27 1991

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
19713-362

# Drexel

## Captan 80W

### Fungicide

ACTIVE INGREDIENTS	By Wt.
*Captan .....	78.2%
Related Derivatives .....	1.8%
INERT INGREDIENTS: .....	20.0%
TOTAL: .....	100.0%

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

### 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 this label, find someone to explain it to you in detail.)

EPA Reg. No. 19713-362

EPA Est. No. 19713-GA-1

■ 262SP-1293

#### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Immediately flush eyes with fresh water for 15 minutes and see a doctor.

**IF SWALLOWED:** Contact physician, poison control center, or emergency clinic before inducing vomiting. Give water or milk to drink and induce vomiting by touching back of throat with finger, or by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person. If medical advice cannot be obtained, take person and a copy of the label to the nearest emergency treatment facility.

**IF ON SKIN:** Wash with plenty of soap and water. See a doctor if irritation occurs or rash develops.

**IF INHALED:** Remove person from exposure area.

**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. Avoid contact with skin and clothing. Avoid inhalation of dust.

##### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers (other than mixers and loaders) must wear:

Long-sleeved shirt and long pants

Waterproof gloves

Shoes plus socks

Protective eyewear

Chemical resistant apron when mixing or loading

Mixers and loaders must wear:

Long-sleeved shirt and long pants

Waterproof gloves

Shoes plus socks

Protective eyewear

Chemical resistant apron when cleaning equipment

Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE.

If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing 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 product 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.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

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), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days.

**EXCEPTION:** For the last 48 hours of the REI, workers may enter the treated area to perform hand labor or other tasks involving contact with anything that has been treated, such as plants, soil, or water, without time limit, if they wear the early-entry personal protective equipment listed below.

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, waterproof gloves, shoes plus socks, protective eyewear.

**COMPATIBILITY:** Captan 80W may be combined with most commonly used insecticides, adjuvants and fungicides with the exception of strongly alkaline materials such as hydrated lime, which reduces the fungicidal activity. Do not use this product in combination with oil sprays or with solvent formulations of Parathion products. Do not use this product on foliage closely following oil sprays.

Manufactured By

**Drexel Chemical Company**

P.O. BOX 9308 MEMPHIS, TN 38109-0308

Captan 80W as normally applied when spraying dilute mixture, should be applied to each acre in sufficient water for coverage.

This product is formulated for application by ground or air equipment. Apply by ground or air according to the use directions given for each crop below. Do not apply this product through any type of irrigation system.

## CROPS

### GENERAL

#### Use Precautions

Except as specified begin applications before or at first sign of disease and repeat as needed to maintain control but observe use limitations. Unless otherwise specified, application can be made on the day of harvest. Apply the high rate when climatic conditions most favors disease(s) and the low rate when climatic conditions least favors disease(s). If you are unaware of the climatic conditions favorable for disease(s) claimed for the specific use sites, you must consult with your State Agricultural Extension Service to learn of these conditions.

### ORNAMENTALS

#### Use Precautions

Do not apply spray to ornamental plants listed below beyond the point of drip from the leaf surface. When applying as a drench use a sufficient mixture to wet the surface of the soil except when the dose is specified in terms of volume of mixture per square feet of area.

**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 5.6 pounds Captan 80W per acre in 20 to 300 gals. of water using ground equipment. Apply at popcorn, bloom, petal fall stage 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 pest infestations 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, Botrytis Blossom End Rot*—Apply 5 pounds Captan 80W per acre in 20 to 400 gals. 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 2 1/2 to 5 pounds Captan 80W per acre in 20 to 400 gals. of water using ground equipment or in 5 to 20 gals. of water by air. Apply at 10 to 14 day intervals in second and later cover sprays up to start of harvest. *Powdery Mildew*—if powdery mildew is a problem add 5 to 12 pounds sulfur per acre or 1 to 2 pounds of Karathane per acre to all postbloom sprays until the foliage matures. Use 2 pounds of Karathane if interval between sprays is longer than 7 days. **CAUTION**—Do not use Captan 80W in combination with or closely following or in alternation with wettable sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Staymen, Baldwin King, etc. as severe injury and defoliation may occur.

**APPLES (Western U.S.):** *Apple Scab*—Apply 5 pounds Captan 80W per acre in a high volume application for preblossom sprays. In mid-summer, the dosage may be reduced to 2 1/2 pounds per acre in high volume applications. (Pacific Northwest): *Bull's Eye Rot, Botrytis Rot*—Apply 5 pounds Captan 80W per acre in 20 to 400 gals. of water using ground equipment. Make 1 or 2 applications with late cover sprays and 1 to 2 preharvest applications.

**APPLES—POST HARVEST DIP (Except CA):** For control of *Various Molds and Storage Rots (Botrytis, Gloeosporium, Rhizopus)*—Use as a post harvest dip or wash. Mix 1 1/2 pounds Captan 80W per 100 gals. water. Apply as a spray or in a dip tank. When used as a dip, recharge solution when tank volume is reduced by 25%. Bring water back to volume and add 1/2 pound Captan 80W for each 25 gals. added. At the end of every 8 hour shift empty tank, flush and mix with a fresh dilution. Do not allow dip tank solution to stand overnight. Maintain continuous agitation during dipping operation.

**APRICOTS:** *Brown Rot (Twig Blight) Jacket Rot*—Apply 3 1/2 pounds Captan 80W per acre in 20 to 250 gals. of water using ground equipment. Apply at red bud, bloom 75% petal fall stages and in cover sprays. Do not apply by aerial application to apricots.

**BLUEBERRIES (Western U.S.):** *Botrytis gray mold or Berry rot, Mummy berry*—Apply 1 1/2 pounds Captan 80W 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 3 1/2 pounds Captan 80W 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 20 day intervals from late bloom.

**CHERRIES (Eastern U.S.):** *Brown Rot, Leaf Spot, Botrytis Rot*—Apply 2 1/2 pounds Captan 80W per acre in 20 to 200 gals. of water using ground equipment. Apply 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 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 and early cover sprays. If sulfur is added, Captan 80W may be reduced to 1 1/2 pounds per acre in these sprays. Do not apply by aerial application on cherries.

**Post Harvest Sprays—Leaf Spot** Apply 2 1/2 pounds Captan 80W per acre in 20 to 200 gals. of water using ground equipment. Apply immediately after

**Blossom Blight, Brown Rot (Fruit), Leaf Spot:** Apply 2 1/2 pounds Captan 80W per acre in 20 to 200 gals. of water using ground equipment. Apply in prebloom, bloom, petal fall, shuck, cover and preharvest sprays. Do not apply by aerial application on cherries.

**CHERRIES—POST HARVEST DIP:** For control of *Various Molds and Storage Rots (Botrytis, Gloeosporium, Rhizopus)*—Use as a post harvest dip or wash. Mix 1 1/2 pounds Captan 80W per 100 gals. water. Apply as a spray or in a dip tank. When used as a dip, recharge solution when tank volume is reduced by 25%. Bring water back to volume and add 1/2 pounds Captan 80W for each 25 gals. added. At the end of every 8 hour shift empty tank, flush and mix a fresh dilution. Do not allow dip tank solution to stand overnight. Maintain continuous agitation during dipping operation.

**GRAPES (Eastern U.S.):** *Black Rot, Downy Mildew*—Apply 2 1/2 pounds Captan 80W per acre in 10 to 200 gals. of water using ground equipment. Apply first application just before bloom, repeat application immediately after bloom and at 10 to 14 day intervals for 1 to 3 additional applications depending on disease pressure and susceptibility of the grape variety.

**Dead Arm (current season infection)**—Apply 1 1/2 to 2 1/2 pounds Captan 80W per acre in 10 to 200 gals. of water using ground equipment and 2 1/2 pounds per acre in 7 to 20 gallons of water by air. Apply first application when shoots are 1/2 to 1 inch long and repeat application when shoots are 4 to 6 inches long.

**GRAPES (California):** *Bunch Rot (Botrytis)*—Apply 2 1/2 pounds Captan 80W per acre in 10 to 200 gals. of water using ground equipment. Apply 2 applications before bloom and one immediately after bloom. Repeat periodically making 3 cover sprays before bunches close.

**Dead Arm (current season infection)**—Apply 2 to 2 1/2 pounds Captan 80W per acre in 10 to 200 gals. of water using ground equipment and 2 1/2 pounds per acre in 7 to 20 gallons of water by air. 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.

**NECTARINES:** *Brown Rot, Scab*—Apply 5 pounds Captan 80W per acre in 20 to 250 gals. 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 applications at 7 to 14 day intervals as necessary to maintain control. Continuous applications through harvest if conditions favor Brown Rot. If powdery mildew is a problem, add 7 1/2 pounds sulfur per acre to the petal fall and shuck sprays and early cover spray. If sulfur is added, Captan 80W may be reduced to 1.56 pounds per acre in these sprays.

**Coryneum Blight (Peach Blight, Shot Hole)**—Apply 5 pounds Captan 80W per acre in 20 to 250 gals. 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 on nectarines.

**PEACHES:** *Brown Rot, Scab*—Apply 5 pounds Captan 80W per acre in 20 to 400 gals. of water using ground equipment. Apply at 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 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 pounds of sulfur per acre to the petal fall and shuck sprays and early cover spray. If sulfur is added, Captan 80W may be reduced to 2 1/2 pounds per acre in these sprays.

**Coryneum Blight (Peach Blight, Shot Hole)**—Apply 5 pounds Captan 80W per acre in 20 to 400 gals. of water using ground equipment. Apply at pink bud, full bloom and petal fall stages and in cover sprays as necessary and as a post harvest spray (but before leaf drop).

**PEARS - POST HARVEST DIP (Except CA):** For control of *Various Molds and Storage Rots (Botrytis, Gloeosporium, Rhizopus)*—use as a post harvest dip or wash. Mix 1 1/2 pounds Captan 80W per 100 gals. of water. Apply as a spray or in a dip tank. When used as a dip, recharge solution when tank volume is reduced by 25%. Bring water back to volume and add 1/2 pound Captan 80W for each 25 gals. added. At the end of every 8 hour shift empty tank, flush and mix with a fresh dilution. Do not allow dip tank solution to stand overnight. Maintain continuous agitation during dip operation.

**PLUMS, FRESH PRUNES (Western U.S.):** *Brown Rot*—Apply 3 1/2 pounds Captan 80W per acre in 20 to 300 gals. of water using ground equipment. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant. California: *Prune Russet Scab (Lacy scab)*—Apply 3 1/2 pounds Captan 80W per acre in 20 to 300 gals. of water using ground equipment. Apply at full bloom. Do not apply by aerial application on plums or fresh prunes.

**PLUMS, FRESH PRUNES (EASTERN U.S.):** *Brown Rot*—Apply 3 1/2 pounds Captan 80W per acre in 20 to 300 gals. 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. Do not apply by aerial application on plums or fresh prunes.

**STRAWBERRIES:** *Botrytis (Gray Mold, Leaf Spot)*—Apply 3 1/2 pounds Captan 80W 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.

**TURF, LAWN:** *Crown Patch, Leaf Spot, Damping Off, Root Rot*—1 1/2 pounds per 100 gals. spray Apply 10 gals. to each 1000 sq. ft. of turf or apply 5 pounds

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

### **WARRANTY—CONDITION OF SALE**

**NOTICE TO BUYER AND USER:** Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes 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, 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.**

#### **RESTRICTIONS**

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

#### **STORAGE**

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not store or transport near feed or food. For help with any spill, leak, fire or exposure involving this material call day or night CHEMTREC 1-800-424-9300.

#### **CONTAINER DISPOSAL**

Completely empty bag into application equipment. Do not reuse container. 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.

#### **PESTICIDE DISPOSAL**

This pesticide is acutely hazardous. Improper disposal of excess pesticide 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.

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