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FEB 27 1997

Ms. Barbara Brown  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

Dear Ms. Brown:

Subject: Drexel Captan 50W  
EPA Registration No. 19713-235  
Applications and Letters Dated January 24, 1997 and  
February 11, 1997, Request To Amend Registration  
Amend Registration by Revising Label Use-Patterns  
To Be Identical to Drexel Captan 80W and To Add  
Anthracnose of Almonds as A Disease Controlled;  
and To Revised Basic Confidential Statment of Formula  
Submitted on EPA Form 8570-4 and Dated February 7, 1997

The proposed revised basic Confidential Statement of Formula for the subject pesticide product submitted on EPA Form 8570-4 and dated February 7, 1997 has been review and found acceptable as an amendment to the registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended. The Confidential Statement of Formula (CSF) has been added to this Agency's record for this product. It should be noted that this CSF replaces all other CSFs in this Agent's record for this product, for reasons discussed with you January 24, 1997.

The proposed amendments to revise labeling of the subject pesticide product has been reviewed and found acceptable for registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), provided that you:

1. Revise the direction for use of this product on the use-site, almonds, that reads: "Use 4 to 6 lbs. per acre in tank mixtures with fungicides have a similar spectrum." to read: "Use 4 to 6 lbs. per acre in tank mixtures with fungicides having a similar spectrum."
2. Revise the statement under the apple use-pattern that reads: "May be applied up to start of harvest." to read: "May be applied up to the day of harvest".
3. Revise the use-pattern for strawberries by adding a line under the words "Plant Bed Width (inches)" in the equation for computing banded rate of Captan 50W per acre.
4. Submit one (1) copy of your final printed label before you release this product for shipment under the subject labeling.

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

A stamped copy of the proposed label is enclosed for your records.

Sincerely yours,

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

Enclosure

E.Wilson: Diskette Captan:02-28-97

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**DREXEL  
CAPTAN 50W  
Fungicide**

**ACTIVE INGREDIENTS:**

Captan*	48.9%
Related derivatives	1.1%
<b>INERT INGREDIENTS:</b>	<b>50.0%</b>
<b>TOTAL:</b>	<b>100.0%</b>

\*N-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.)

Read Entire Label Before Using This Product

**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:** 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. ~~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. See a doctor if irritation occurs or rash develops. ~~Get medical attention if abnormal reaction occurs.~~

~~For chemical emergency, spills, leaks, fire, exposure, or accident call CHEMTREC 1-800-424-9300.~~

EPA Reg. No. 19713-235  
EPA Est. No. 19713-GA-1  
REVISED: September 19, 1994

WPS REVISIONS/DELETIONS - 08-04-92  
AMENDMENT: AGENCY LTR 5/27/94/ 6/16/94  
Amendment: 3/23/95 - (General Aerial Stmt)  
Amendment: 10/14/96 - Adding disease (Anthracnose) to Almonds  
Amendment: 01/23/97 - Revising & correcting errors in label language.

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

**FEB 27 1997**

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

19713-235

Manufactured by:  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

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**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** ~~Corrosive~~. 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 or spray mist.

**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 and protective eyewear.

Mixers and loaders must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, chemical resistant apron when cleaning equipment, mixing or loading and 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.

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#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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.

CAPTAN 50W 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.

Read all precautions and directions for use before using. Use only for claims listed and only as specified on this label. In order that pesticide residues on food and forage crops will not exceed federal tolerances, use only at recommended rates and intervals, and do not apply closer to harvest than specified. Do not apply or allow to drift to adjoining food, fiber or pasture crops. Drift of captan onto sensitive crops (e.g. D'Anjou Pears) can cause severe phytotoxicity and crop loss. 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 50W 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 50W. Do not apply captan in combination with or immediately before or closely following oil sprays. Do not allow oil sprays on adjacent crops to drift onto crops which have been or will shortly be treated with captan. 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 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 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" above.

For aerial or concentrate spray applications, apply the same amount of CAPTAN 50W per acre as would normally be applied for dilute spray applications. Apply aerial or concentrate sprays in sufficient water for good coverage. ~~Use spray volumes of 5 to 20 gals. per acre for aerial applications.~~ Do not apply this product through any type of irrigation system.

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**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. Maximum application is for a crop cycle. Crop cycle is defined as pre-bloom through post-harvest.

Apply the high rate and/or spray at shorter intervals when climatic conditions most favor disease(s). Apply the low rate and/or spray at longer intervals when climatic conditions least favor disease(s). ~~Apply the high rate when climatic conditions most favor disease(s) and the low rate when climatic conditions least favor disease(s). Maximum application is for a crop cycle. Crop cycle is defined as pre-bloom through post-harvest.~~ If you are unaware of the climatic conditions favorable for disease(s) claimed for the specific use sites, you must consult with your State Agricultural Extension Service to learn of these conditions.

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

#### **DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

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

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry 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.

**EXCEPTION:** The restricted-entry interval (REI) for STRAWBERRIES is 24 hours. After expiration of the 24 hour period, no personal protective equipment is required.

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 and protective eyewear.

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

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## FRUIT AND NUT CROPS

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**ALMONDS:** *Anthracnose, Brown Rot, Twig and Blossom Blight, Leaf Blight, Shothole, Scab* - Apply 4 to 10.4 lbs. CAPTAN 50W per acre in 20 to 300 gals. of water using ground equipment or in 5 to 20 gals. of water by air. Use 6 to 9 lbs. per acre when captan is used alone. Use 4 to 6 lbs. per acre in tank mixtures with fungicides having a similar spectrum. ~~To reduce the potential for disease resistance tolerance development to other fungicides having a similar spectrum, CAPTAN 50W may be used in a tank mix at a rate of 4 to 6 lbs. per acre.~~ 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. *Do not apply more than 52.5 lbs. of CAPTAN 50W per acre per crop cycle.* See "General Use Precaution" section for definition of crop cycle.

**APPLES (Eastern U.S.):** *Black Rot (Frogeye), Botrytis Blossom End Rot, Primary Scab* - Apply 8 lbs. CAPTAN 50W per acre in 20 to 400 gals. of water using ground equipment or in 5 to 20 gals. of water by air. Apply at 5 to 7 day intervals as needed to maintain control in pre-bloom, bloom, petal fall and first cover sprays. *Bitter Rot, Black Pox, Black Rot, Botryosphaeria Rot, Brooks Fruit Spot, Fly Speck, Secondary Scab, Sooty Blotch* - Apply 4 to 8 lbs. CAPTAN 50W 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. *Do not apply more than 64 lbs. of CAPTAN 50W per acre per crop cycle.* May be applied up to start of harvest. *Powdery Mildew* - If *Powdery Mildew* is a problem add 6 to 12 lbs. sulfur per acre. ~~to all post-bloom sprays until foliage matures.~~

**CAUTION** - Do not use CAPTAN 50W 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.):** *Primary Scab* - Apply 4 to 8 lbs. CAPTAN 50W per acre in 20 to 400 gals. of water per acre using ground equipment or in 5 to 20 gals. of water by air. To reduce the potential for ~~disease resistance tolerance~~ development to other fungicides having a similar spectrum, the lower rate may be used in tank mixtures. (Pacific Northwest): *Botrytis Rot, Bull's Eye Rot* - Apply 6 lbs. CAPTAN 50W per acre in 20 to 400 gals. of water using ground equipment or in 5 to 20 gals. of water by air. Make 1 or 2 applications with late cover sprays and one final spray prior to harvest. *Do not apply more than 64 lbs. of CAPTAN 50W per acre per crop cycle.* May be applied up to day of harvest. *Secondary Scab* - In mid-summer cover sprays, the dosage may be reduced to 4 lbs. per acre.

**APRICOTS:** *Brown Rot (Twig Blight), Jacket Rot* - Apply 3 to 5 lbs. CAPTAN 50W per acre in 20 to 250 gals. of water using ground equipment or in 10 to 20 gals. of water by air. Apply in red bud, bloom, 75% petal fall and cover sprays. To reduce the potential for ~~disease resistance~~ tolerance development to other fungicides having a similar spectrum, use the lower rate in tank mixtures. *Do not apply more than 25 lbs. of CAPTAN 50W per acre per crop cycle.* May be applied up to day of harvest.

**BLUEBERRIES (Eastern U.S.):** *Botrytis Gray Mold, Berry Rot, Mummy Berry* - Apply 5 lbs. CAPTAN 50W per acre in sufficient water for thorough coverage or a minimum of 5 gals. of water by air. Start spray program when buds swell ~~or when~~ and earliest buds have loose scales. Repeat at 7 day intervals through blossom period. Repeat at 7 to 10 day intervals from late bloom. *Do not apply more than 70 lbs. of CAPTAN 50W per acre per crop cycle.* May be applied up to day of harvest.

**BLUEBERRIES (Western U.S.):** *Botrytis Gray Mold, Berry Rot, Mummy Berry* - Apply 2 to 5 lbs. CAPTAN 50W per acre in 20 to 200 gals. of water by ground or in 5 to 20 gals. of water by air. Begin at mid-bloom, repeat at 7 to 10 day intervals until maturity. *Do not apply more than 70 lbs. of CAPTAN 50W per acre per crop cycle.* May be applied up to day of harvest.

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**CHERRIES (Eastern U.S.):** *Brown Rot, Botrytis Rot, Leaf Spot* - Apply 4 lbs. CAPTAN 50W per acre in 20 to 200 gals. of water using ground equipment or in 10 to 20 gals. of water by air. Apply in pre-bloom, bloom, petal fall, shuck, cover and pre-harvest sprays. Applications at 3 to 4 day intervals may be necessary during bloom to control *Blossom Blight*. Repeat applications at 7 to 20 day intervals as needed to maintain control up to start of harvest. If *Powdery Mildew* is a problem add 6 lbs. sulfur per acre to the petal fall, shuck or early cover sprays. If sulfur is added, CAPTAN 50W may be reduced to 2 lbs. per acre in these sprays. *Do not apply more than 28 lbs. of CAPTAN 50W per acre per crop cycle.* May be applied up to day of harvest.

Post-harvest sprays: *Leaf Spot* - Apply 4 lbs. CAPTAN 50W per acre in 20 to 200 gals. of water using ground equipment. Apply immediately after harvest and repeat application in 10 to 14 days.

**CHERRIES (Western U.S.):** *Brown Rot Blossom Blight, Brown Rot (Fruit), Leaf Spot* - Apply 3 to 4 lbs. CAPTAN 50W per acre in 20 to 200 gals. of water using ground equipment or in 10 to 20 gals. of water by air. Apply in pre-bloom, bloom, petal fall, shuck, cover and pre-harvest sprays. *Do not apply more than 28 lbs. of CAPTAN 50W per acre per crop cycle.* May be applied up to day of harvest.

**GRAPES (CA):** *Bunch Rot (Botrytis)* - Apply 4 lbs. CAPTAN 50W per acre in 20 to 200 gals. of water using ground equipment or in 7 to 20 gals. of water by air. Make 2 applications before bloom and one immediately after bloom. Repeat periodically, making 3 cover applications before the bunches close. *Leaf Spot and Phomopsis Cane (current season infection)* - Apply 3 to 4 lbs. CAPTAN 50W per acre in 20 to 200 gals. of water using ground equipment or apply 4 lbs. CAPTAN 50W per acre in 7 to 20 gals. of water by air. Apply first spray when green tissue begins to show but before shoots are 1 inch long and repeat applications when shoots are 6 to 8 inches long. *Do not apply more than 24 lbs. of CAPTAN 50W per acre per crop cycle.* May be applied up to day of harvest.

**GRAPES (except CA):** *Downy Mildew, Leaf Spot, Phomopsis Cane, Suppression of Black Rot* - Apply 2 to 4 lbs. CAPTAN 50W per acre in 20 to 200 gals. of water using ground equipment or in 7 to 20 gals. of water by air when shoots are ½ to 1½ inches long, when shoots are 3 to 5 inches long, and when shoots are 9 to 12 inches long. Repeat just before bloom, immediately after bloom, and continue at 10 to 14 day intervals as long as disease conditions persist. Use the lower rate when spraying less susceptible grape varieties or when conditions are less favorable for disease development. Use the higher rate on susceptible grape varieties and during periods of weather highly favorable for disease development. *Do not apply more than 24 lbs. of CAPTAN 50W per acre per crop cycle.* May be applied up to day of harvest.

**NECTARINES:** *Brown Rot, Scab* - Apply 4 to 8 lbs. CAPTAN 50W per acre in 20 to 250 gals. of water using ground equipment or in 10 to 20 gals. of water by air. To reduce the potential for ~~disease resistance~~ tolerance development to other fungicides having a similar spectrum, use the lower rate in tank mixes. 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. Continue applications throughout harvest if conditions favor *Brown Rot*. If *Powdery Mildew* is a problem, add 7½ lbs. sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN 50W may be reduced to 2½ lbs. per acre in these sprays. *Coryneum Blight (Peach Blight, Shothole)* - Apply 4 to 8 lbs. CAPTAN 50W per acre in 20 to 250 gals. of water using ground equipment or in 10 to 20 gals. of water by air. 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 more than 48 lbs. of CAPTAN 50W per acre per crop cycle (including post-harvest sprays).* Pre-harvest sprays may be applied up to day of harvest.

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**PEACHES: *Brown Rot, Scab*** - Apply 4 to 8 lbs. CAPTAN 50W per acre in 20 to 400 gals. of water using ground equipment or in 10 to 20 gals. of water by air. To reduce the potential for disease-resistance tolerance development to other fungicides having a similar spectrum, use the lower rates of CAPTAN 50W in tank mixes. Apply in full pink, bloom, petal fall, shuck stages and in cover and pre-harvest sprays. When conditions are favorable, make applications at 3 to 4 day intervals during bloom to control *Blossom Blight*. Then 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 12 lbs. sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN 50W may be reduced to 4 lbs. per acre in these sprays. *Coryneum Blight (Peach Blight, Shothole)* - Apply 8 lbs. CAPTAN 50W per acre in 20 to 400 gals. of water using ground equipment or in 10 to 20 gals. of water by air. Apply in pink bud, full bloom, petal fall stages and cover sprays as necessary and as a post-harvest spray (but before leaves drop). *Do not apply more than 64 lbs. of CAPTAN 50W per acre per crop cycle (including post-harvest sprays)*. Pre-harvest sprays may be applied up to day of harvest.

**PLUMS, FRESH PRUNES (Eastern U.S.): *Brown Rot*** - Apply 6 lbs. CAPTAN 50W per acre in 20 to 300 gals. of water using ground equipment or in 10 to 20 gals. of water by air. 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 more than 54 lbs. of CAPTAN 50W per acre per crop cycle*. May be applied up to day of harvest.

**PLUMS, FRESH PRUNES (Western U.S.): *Brown Rot*** - Apply 4 to 6 lbs. CAPTAN 50W per acre in 20 to 300 gals. of water using ground equipment or in 10 to 20 gals. of water by air. Use lower rates when tank mixed with fungicides of similar spectrum of activity are used. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant. *Prune Russet Scab (Lacy Scab)* - Apply 4 to 6 lbs. CAPTAN 50W per acre in 20 to 300 gals. of water using ground equipment. Apply at full bloom. *Do not apply more than 54 lbs. of CAPTAN 50W per acre per crop cycle*. May be applied up to day of harvest.

**STRAWBERRIES: *Botrytis (Gray Mold), Leaf Spot*** - Apply by broadcast spray 3 to 6 lbs. CAPTAN 50W per acre in sufficient water for thorough coverage by ground equipment or in 10 to 20 gals. of water by air. Begin applications when new growth starts in the Spring and before fruit starts to form. Repeat at 7 to 14 day intervals. Under conditions favorable to *Fruit Rot* continue applications through harvest period treating immediately after each picking. *Do not exceed 48 lbs. of CAPTAN 50W per acre per crop year*. May be applied up to day of harvest. Restricted-entry interval is 24 hours.

If applying as a directed / banded spray; use band rate of CAPTAN 50W according to the following formula:

Plant Bed Width (inches)	x	Broadcast rate	=	Banded Rate of CAPTAN 50W
Row Spacing (inches)		per acre		per acre

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## SPECIAL USES

**PEACH PRE-PLANT ROOT DIP (CA):** Preventative pre-plant dip treatment for *Crown Gall*. Use 4 lbs. CAPTAN 50W plus 3.2 pints diluted sodium hypochlorite (5.25% household bleach) per 100 gals. of water. Wash nursery trees to remove soil from roots. Cut off all dormant buds and suckers in crown area and prune root system if necessary. Submerge the entire dormant tree for 5 minutes. Recharge dip during operation at a rate of 3.2 pints diluted sodium hypochlorite per 100 gals. of water.

**POST-HARVEST DIP FRUIT APPLICATION:** For control of various molds and *Storage Rots* (*Botrytis*, *Gleosporium*, *Rhizopus*). Use as a post-harvest dip or spray wash on the following fruits: Apples, Cherries, Pears - Use 2½ lbs. CAPTAN 50W per 100 gals. of water. Apply as a spray or in a dip tank. When used as a dip, recharge wash solution periodically when tank volume is reduced by 25%. Bring water back to volume and add 2½ pound CAPTAN 50W for each 100 gals. 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.

**DISPOSAL OF LEFTOVER POST-HARVEST TREATMENT MIXTURE:** Leftover dip or spray mixtures containing captan may be used as a foliar spray for apple and cherry trees, (but not pear trees) or for ornamental sites listed below. Observe all restrictions such as maximum pounds applied per application and season.

When calculating application rates, if analytical services are not available to determine the exact quantity of captan remaining in the mixture, assume that the tank still contains 2½ lbs. of CAPTAN 50W per 100 gals. of water. If the dip or spray mixture contains other pesticides in addition to captan, refer to the product label(s) for information regarding disposal.

Captan wastes are acutely hazardous to the eyes. Improper disposal of spray or dip tank mixtures is a violation of federal law. If the leftover dip or spray mixture cannot be disposed of in the manner prescribed above, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance concerning the disposal of spent or excess dip tank mixtures.

## ORNAMENTALS

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

**AZALEAS:** *Damping-off of Cuttings* - Use 4 lbs. CAPTAN 50W per 100 gals. of water. Dip cuttings before bedding. *Petal Blight* - Use 2 lbs. CAPTAN 50W per 100 gals. of water. 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 lbs. CAPTAN 50W per 100 gals. of water. Dip tubers 30 minutes, drain and plant.

**CAMELLIAS:** *Petal Blight* - Use 1 pound CAPTAN 50W per 100 gals. of water. Apply to drench soil around plants beginning when flowers start to open. Repeat at 7 to 10 day intervals through bloom.

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**CARNATIONS:** *Alternaria Leaf Spot, Rust* - Use 2 lbs. CAPTAN 50W per 100 gals. of water. Begin applications 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 lbs. CAPTAN 50W per 100 gals. of water. Dip cutting before bedding.

**CHRYSANTHEMUM:** *Botrytis Flower Blight, Septoria Leaf Spot* - Use 2 lbs. CAPTAN 50W per 100 gals. of water. Apply at first sign of disease. Repeat at 7 to 10 day intervals. *Damping-off cuttings* - Use 4 lbs. CAPTAN 50W per 100 gals. of water. Dip cutting before bedding.

**DICHONDRA (CA only):** *White Mold (Sclerotium rolfsii)* - Use 2 lbs. CAPTAN 50W per 100 gals. of water. Apply 1 gallon spray per 10 square feet. Make 2 to 3 applications at 7 day intervals.

**GLADIOLUS (Corms):** *Corm Rot and Decay, Damping-off* - Use 1/2 to 1 1/2 lbs. CAPTAN 50W per 10 gals., dip corms 20 to 30 minutes. Drain and plant.

**GRASSES (Ornamental In Non-Pastured Areas Only):** *Leaf Spot, Damping-off, Brown Patch, Melting Out, Seedling Blights, Brown Spot* on St. Augustine Grass - Use 2 lbs. CAPTAN 50W per 100 gals. of water. Apply 10 gals. spray per 1,000 square feet. Begin when growth starts in spring. Repeat at 7 to 14 day intervals throughout season. Do not graze treated areas or feed clippings to livestock.

**GRASSES (Lawn Seedbeds):** *Damping-off and other Soil Borne Diseases* - Use 1/4 to 1/3 pound CAPTAN 50W per 1,000 square feet or 2 lbs. CAPTAN 50W per 100 gals. of water, using 15 gals. spray per 1000 square feet. Cultivate into upper 3 to 4 inches before planting.

**ROSES:** *Black Spot, Botrytis Blossom Blight* - Use 2 lbs. CAPTAN 50W per 100 gals. of water. Begin at first growth or first sign of disease. Repeat at 7 to 14 day intervals, and more frequently during frequent rains and heavy dews.

**SOIL AND GREENHOUSE BENCH TREATMENT:** Pre-plant treatment for *Damping-off, Root Rot* diseases on seedling or transplants of roses (and other shrubs, trees, flowers) and lawn seedbeds - Use 2 lbs. CAPTAN 50W per 100 gals. of water at a rate of 15 gals. per 1,000 square feet. Cultivate into upper 3 to 4 inches of soil before planting.

## 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.

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**WARRANTY - CONDITION OF SALE**

OUR RECOMMENDATIONS FOR USE of this product are based upon tests 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 Drexel or 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 Drexel Chemical Company and is accepted as such by the Buyer.

**BEST COPY AVAILABLE**