

SEP 16 1994

Ms. Barbara Brown
Drexel Chemical Company
P.O. Box 9308
2467 Pennsylvania St.
Memphis, TN 38198-0308

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Dear Ms. Brown:

Subject: DREXEL CAPTAN 4L FUNGICIDE
EPA Registration No. 19713-156
Application Dated August 31, 1994, Resubmission of
Amended Labeling To Respond To June 16, 1994
Agency Letter Regarding Overtolerance of
Captan Residues in Strawberries, To Delete
"For Terrestrial Uses" from Wetland Statement
and To Add the Strawberry "exception" to the
EPA's Agricultural Use Requirement section

The proposed labeling submitted with your application dated August 31, 1994 to amend the subject pesticide product registration is acceptable under the Federal Insecticide, Fungicide and Rodenticide Act as amended provided that you revise the labeling as described below:

1. Delete the claims for subsequent applications under the use site almonds. The PHI is 30 days and the claim for a shorter PHI of 12 days is not supported.
2. Add to the Agricultural Use Requirement Block the following statement: "Notify workers of the application by warning them orally or by posting warning signs at entrances to treated areas."
3. Submit one (1) copy 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, 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.

Sincerely yours,

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

Enclosure

DREXEL
CAPTAN 4L FUNGICIDE

ACTIVE INGREDIENT:

| | |
|------------------------------|---------|
| *Captan | 37.64% |
| Related Derivatives. | 0.86% |
| INERT INGREDIENTS: | 61.50% |
| TOTAL: | 100.00% |

*N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide
 *Contains 4.0 lbs. Captan per gallon

KEEP OUT OF THE 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.)

STATEMENT OF PRACTICAL TREATMENT
 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.

EPA Reg. No. 19713-156
 EPA Est. No. 19713-MS-1

Net Contents:

REVISED: 8/31/94
 WPS REVISIONS/DELETIONS 07/30/93

ACCEPTED
 with COMMENTS
 In EPA Letter Dated
 SEP 16 1994
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act
 as amended, for the pesticide
 registered under EPA Reg. No.
 19713-156

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER: Causes irreversible eye damage. Harmful if swallowed or inhaled. May cause allergic skin reactions. Do not get in eyes. Avoid contact with skin and clothing.

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 cleaning, mixing or loading
 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 [49 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 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 run off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

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PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

GENERAL INFORMATION

CAPTAN 4L is an aqueous suspension for use in water as a spray for the control of certain fungus diseases of fruit, and-vegetables. THIS FORMULATION IS NOT SUITABLE FOR USE AS A SEED PROTECTANT. Observe Use Limitations Given On The Label For Specific Crops.

In order that pesticide residues on food and forage crops will not exceed tolerances established by the Federal Food and Drug Administration, use only at recommended rates and intervals. Do not apply or allow to drift onto adjoining food, fiber, or pasture crops. The grower is responsible for residues on his crops as well as for damages caused by drift from his property to that of others.

Consult State Agricultural Experiment Stations or the State Agricultural Extension Service for additional information, as the timing, number, and rate of applications needed will vary with local conditions.

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 through any type of irrigation system.

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
- Protective eyewear

BEFORE USE. MIX CONTENTS THOROUGHLY-STIR OR ROLL: 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. Use a screen not finer than 50 mesh in entire system. Do not combine with emulsifiable liquids or wetttable powders unless previous experience has proven them to be physically compatible and safe to plants.

RECOMMENDATIONS

Unless otherwise stated, dosage rates on this label are given in terms of CAPTAN 4L per 100 gallon of water.

Where a range of dosages is indicated, use the lower rate for mild infestations and the higher rate for heavy infestations.

ALMONDS: Brown rot twig and blossom blight, shothole, scab, leaf blight - Apply in 3 pints/100 gals at a rate of 9 pints/acre (4.5 lbs a.i.) per acre. Apply at popcorn, bloom, and petal fall stages, starting 5 weeks after petal fall and up to 30 days before harvest. Aerial or ground application. 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 (frog-eye), botrytis, blossom end rot - Apply in 2 pints/100 gal. at a rate of 8 pints/acre (4 lbs. a.i.) per acre at 5 to 7 day intervals as needed to maintain cover in prebloom, bloom, petal fall and first cover sprays. Use at 3 pint/acre rate if conditions favor scab or if active scab can be found. Secondary scab, Brooks fruit spot, sooty blotch, fly speck, black rot, black pcx, botryosphaeria rot, bitter rot - 4 to 6 pints/acre 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 1.5 to 3 pounds sulfur. - ~~or 1/4 to 1/2 pound Karathane to all prebloom and bloom sprays and 1/4 to 1/2 pounds Karathane to all pest bloom sprays until the foliage matures. Use 1/2 pound Karathane if interval between sprays is longer than 5 days.~~ CAUTION - Do not use CAPTAN in combination with or closely following or in alternation with wettable sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Staymen, Baldwin, King, etc., as severe injury and defoliation may occur.

APPLES: (Western U.S.): Apple Scab - In preblossom sprays. Use apply in 2 pints per 100 gallons of water at a rate of 8 pints per acre (4 lbs. a.i.) per acre in high volume application. ~~In low volume sprays apply 16 pounds per acre.~~ In mid-summer, the dosage may be reduced to 1 pint per 100 gallons in high volume application or 10 pints per acre in low volume sprays. Bull's eye rot, botrytis rot (Pacific Northwest) - Apply in 2 pints per 100 gallons spray at a rate of 8 pints/acre (4 lbs. a.i.) per acre.

Make 1 or 2 applications with late cover sprays and 1 to 2 preharvest applications.

APRICOTS- Brown rot (twig blight), jacket rot-Apply 1 quart (1 lb. a.i.) maximum of 250 gallons of spray per acre. Apply at bloom, red bud stage, and repeat at 75% petal fall. Ground application only.

CHERRIES: (Eastern U.S.): Brown rot, leaf spot, Botrytis rot--Apply 2 pints in 100 gallons of water at a rate of 4 pints (2 lbs. a.i.) per acre in pre-bloom, bloom, petal fall, shuck, cover and preharvest sprays. Applications at 3 to 4 day intervals may be necessary during bloom to control blossom blight.

Repeat applications at 7 to 10 day intervals as needed to maintain cover up to start of harvest. If powdery mildew is a problem add 3 pounds sulfur to the petal fall, shuck and early cover sprays. If sulfur is added, CAPTAN may be reduced to 1 pound per acre in these sprays. Post harvest sprays--Apply 2 pints in 100 gallons of water at a rate of 4 pints (2 lbs. a.i.) per acre immediately after harvest for leaf spot. Repeat application in 10 to 14 days. CHERRIES: (Western U.S.) Brown rot blossom blight, Brown rot (fruit), leaf spot--Apply 2 pints in 100 gallons of water at a rate of 4 pints (2 lbs. a.i.) per acre in prebloom, bloom, petal fall, shuck, cover and preharvest sprays.

GRAPES: (Eastern U.S.) Black rot, downy mildew - Apply 2 pints in 100 gallons of water at a rate of 4 pints (2 lbs. a.i.) per acre. Make first application just before bloom, repeat just after bloom and at 10 to 14 day intervals for 1 to 3 more applications depending upon the susceptibility of the grape variety. Aerial or ground application.

Dead Arm (current season infection) - Add 2 to 4 pints to 100 gallons ~~water~~-spray of water. Apply 50 gallons per acre 0.5 to 1 lb. a.i.) per acre when shoots are 1/2 to 1 inch long. Repeat application when shoots are 4 to 6 inches long.

GRAPES (California): Bunch rot (botrytis)- Apply 2 pints (1 lb. a.i.) per acre in 100 gallons of water per acre. Make 2 applications before bloom and 1 just after bloom. Repeat periodically making 3 cover applications before the bunches close. Dead Arm (current season infection) - Add 4 pints to 100 gallons of water. Apply 150 to 300 gallons (3 to 6 lbs. a.i.) per acre by ground equipment. Apply 4 pints (2 lbs. a.i.) in 7 to 20 gallons of water per acre by aircraft. Apply first spray when green tissue begins to show but before shoots are 1 inch long. Apply second spray when shoots are 6 to 8 inches long.

NECTARINES: Brown rot, scab - Apply 2 pints (1 lb. a.i.)/100 gal. of water in full pink bloom, petal fall, shuck, cover and preharvest sprays. (Maximum of 400 gallons of spray per acre.) Ground application.

Applications at 3 to 4 day intervals may be necessary during bloom to control blossom blight. Repeat application at 7 to 14 day intervals as needed to maintain cover. Continue applications through harvest if conditions favor brown rot.

If powdery mildew is a problem, add 3 pounds sulfur to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN may be reduced to 1 pint per 100 gallons of water in these sprays. Coryneum blight (peach blight, shothole) - Apply 2 pints in 100 gallons of water (1 lb. a.i.) per acre. Apply in pink bud, full bloom, petal fall and cover periods as necessary. Ground application only.

PEACHES: Brown rot, scab - Apply 2 pints in 100 gallons of water at a rate of 8 pints (4 lbs. a.i.) per acre. 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 cover. Continue applications through harvest if conditions favor brown rot. If powdery mildew is a problem, add 3 pounds sulfur to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN may be reduced to 1 pint per 100 gallons in these sprays. Coryneum blight (peach blight, shothole) - Apply 2 pints in 100 gallons of water at a rate of 8 pints (4 lbs. a.i.) per acre. Apply in pink bud, full bloom, petal fall and cover periods as necessary.

PLUMS, PRUNES (Western U.S.): Brown rot - Apply 2 pints in 100 gallons of water at a rate of 2 pints (1 lb. a.i.) per acre. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant. Prune russet scab (lacy scab) (in California) - Apply 2 pints in 100 gallons water at a rate of 2 pints (1 lb. a.i.) per acre. Apply at full bloom. ~~Maximum of 300 gallons of spray per acre~~ Ground application only.

PLUMS, PRUNES (Eastern U.S.): Brown rot - Apply 2 pints in 100 gallons of water at a rate of 2 pints (1 lb. a.i.) per acre. Apply at full pink, bloom and petal fall sprays. ~~Maximum of 300 gallons of spray per acre~~ (Ground application). Repeat applications at 7 to 14 day intervals as needed to maintain cover. Continue applications through harvest if conditions favor brown rot. The addition of a neutral spreader has improved coverage. Ground application only.

STRAWBERRIES: Botrytis fruit rot - Apply three quarts per acre (3 pounds A.I.) per acre in 20 to 300 gallons of water using ground equipment. Make first application when new growth starts in the spring before the fruit starts to form. Repeat at weekly intervals up to harvest. Do not exceed 6 gallons of Captan 4L Fungicide per acre (24 pounds A.I.) per year. After harvesting begins, if conditions favor botrytis fruit rot, treat after each picking. For aerial or concentrate spray application, apply the same amount of Captan 4L per acre as would normally be applied for dilute sprays.

Use the following formula for calculating the reduced rate per treated acre when applying Captan 4L by directed or banded sprays:

Banded rate = Plant Bed Width(inches) x Broadcast rate
per acre Row spacing (inches) per acre

POSTHARVEST DIP: CAPTAN 4L can be used as a postharvest dip or wash on the following fruits for prevention of various rots and molds (Rhizopus, Botrytis, Gloeosporium) during storage: Apples, cherries, and pears--Dilution Rate: Use 1-1/4 quarts per 100 gallons water.

Apply as a spray or in dip tank. When used as a dip, recharge wash solution periodically as volume in tank is depleted. When tank volume is reduced 25%, bring water back to volume by adding 3/8 quart CAPTAN 4L for every 25 gallons of water added. At end of every 8-hour shift, empty tank, flush, and charged with fresh dilution. Dispose of spent solution in accordance with federal, state, and local Laws.

Do not allow dip tank solution to stand overnight. Maintain continuous agitation during dipping operation.

STORAGE AND DISPOSAL

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

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

1. Contain spill; absorb with a material such as saw dust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with water and soap to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Place a leaking container in a plastic tub and transfer contents as soon as possible to an empty original container.

6. Do not allow runoff to enter sewer or contaminate water supplies.
7. Dispose of waste as indicated below.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY-CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon 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.
Manufactured by:

DREXEL CHEMICAL COMPANY
P.O. Box 9306, Memphis, Tenn. 38109-0306

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