

AUG - 4 1994

Ms. Stacy A. Schmidt
SureCo®
10008 N. Dale Mabry Highway
Suite 121
Tampa, FL 33618

Dear Ms. Schmidt:

Subject: SureGard Brand Captan 50-WP Agricultural Fungicide
EPA Registration No. 769-540
Your Letters Dated July 11, and July 28, 1994, Re:
Overtolerance of Captan Residues in Strawberries,
Required Captan Labeling Revisions

The proposed labeling submitted in response to this Agency's letter of June 16, 1994 regarding required labeling for captan products that bear labeling for use on strawberries has been reviewed and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act as amended, provided that you:

1. Revise the dosage for strawberries by increasing the dosimetry of the subject product to 6 lbs. per acre, which equals 3 lbs. active ingredient per acre.
2. Revise the formula for banded sprays by consistently using the name "Captan 50 WP". Change the name of the subject product from "Captan" to "Captan 50 WP", to be consistent.
3. Revise the chemical expression for captan in the ingredient statement to read as follows:

"N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide"
4. The Agricultural Use Requirements must be placed in a separate box as described in EPA PR Notice 93-7. A separate box is required for the "User Safety Recommendations", also.
5. Delete the phrase "For terrestrial uses," from the wetland statement in the Environmental Hazards section, see PR Notice 93-8.

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

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

Sincerely yours,

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

Enclosure

EwilsonDiskette ABC12: 08-04-94

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Vol. Book 0-4-1994
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Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended for the present
registered under EPA Reg. No. 769-540

SUREGARD CAPTAN 50 WP

Active Ingredients:	
Captan*	49.28%
Related Derivatives	1.12%
Inert Ingredients:	49.60%
TOTAL	100.00%

*N-[(trichloromethyl) thio]-4-cyclohexene-1,2-dicarboximide

EPA Reg. No. 769-540

EPA EST. NO. 769-GA-1



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

STATEMENT OF PRACTICAL TREATMENT

If In Eyes: Flush eyes immediately with fresh water for 15 minutes. 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 On Skin: Wash with plenty of soap and water.

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

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 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, protective eyewear, chemical-resistant apron when mixing and loading, and dust/mist filtering respirator (MSHA, NOISH 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

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

When handlers uses enclosed cabs 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

Users Should: 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. 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 wastewater in a manner that will contaminate water resources.

PHYSICAL OR CHEMICAL HAZARDS

Protect from excessive heat. Store in cool, dry place.

STORAGE AND DISPOSAL

Storage: Store pesticide in original container and place in a locked storage area. Opened pesticide containers should be securely resealed prior to storage. Protect from penetration of moisture, excessive heat or cold. Avoid cross-contamination with other pesticides or fertilizers. Use caution when storing pesticides in stacks.

Pesticide Disposal: Do not contaminate water, food, or feed by storage or 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 Representative at the nearest EPA Regional Office for guidance.

Container Disposal: Completely empty bag into application equipment, then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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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 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.

NOTE: For concentrate sprayer application, the same quantity (per Acre) of Captan 50 WP as would normally be applied when spraying dilute mixture should be applied to each acre in sufficient water for coverage. When more than one dosage rate is given, use the higher rate when conditions are favorable for disease development and use the lower rate when disease conditions are less favorable. Do not apply this product through any type of irrigation system.

Compatibility: Captan 50 WP may be combined with 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

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not use this product on foliage closely following oil sprays.

ORNAMENTAL USES

AZALEA, CARNATION AND CHRYSANTHEMUM CUTTINGS FOR DAMPING-OFF: Dip cuttings in a suspension of 4 lbs. per 100 gallons spray before bedding.

ORNAMENTALS: Roses - Black Spot; Carnation - Rust and Leaf Spot; Chrysanthemums - Flower Blight: 2 lbs. per 100 gallons of spray. Apply at first sign of disease; cover upper and lower leaf surfaces thoroughly. Repeat every 7 to 10 days.

TURF, LAWN: Brown Patch, Leaf Spot, Damping-Off, Root Rot - 2 lbs. per 100 gallons spray. Apply 10 gallons to each 1000 square feet or apply 8 lbs. per acre in water for coverage. Apply prior to infection. Repeat at 7 to 10 day intervals as necessary. Do not graze treated areas or feed clippings to livestock.

SOIL AND GREENHOUSE BENCH TREATMENT: Pre-planting for damping-off and root rot diseases on seedlings or transplants on roses (and other shrubs and trees), many flowers and lawn seedbeds - Apply as a dust at 4 to 5 oz. per 1000 square feet or spray at 2 lbs. to 100 gallons spray using 15 gallons to each 1000 square feet. Cultivate into upper 3 to 4 inches of soil before planting.

USE PRECAUTIONS: Only the applicator is permitted to be in the greenhouse during the application of Captan. Open vents to greenhouse during application and for at least 1 hour following application. Workers planting in Captan treated soil must wear chemically resistant gloves.

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.

APPLES: Primary Scab Infection - Apply 8 lbs. Captan 50 WP per acre in 20 to 400 gallons of water using ground equipment. Applications should be made at 5 - 7 day intervals as needed to maintain control in prebloom, bloom, petal-fall and first cover spray.

Secondary Apple Scab, Brooks Fruit Spot, Flyspecking, Bitter Rot, Black Rot, Botryosphaeria, Black Pox - Apply 4 to 8 lbs. Captan 50 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 up to start of harvest. **CAUTION:** Captan 50 WP should not be used 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. Foliage injury may at times occur to Red Delicious, Winesap and other sensitive varieties of apples in early season sprays.

CHERRIES: Cherry Leaf Spot, Brown Rot, Botrytis Rot - 4 lbs. per acre in 20 to 200 gallons of water using ground equipment. Spray at 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.

GRAPES: Downy Mildew, Black Rot - 4 lbs. per acre in 10 to 200 gallons of water using ground equipment. Make first application

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just before bloom and repeat 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 Disease (California)** - 2 lbs. per 100 gallons spray, 3 to 6 lbs. per acre in 10 to 200 gallons of water using ground equipment. 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. **(Northeast)** - 2 to 4 lbs. per acre in 10 to 200 gallons water using ground equipment. Make first application when shoots are 1/2 to 1 inch long and repeat application when shoots are 4 to 6 inches long.

NECTARINES: Brown Rot, Scab - Apply 5 lbs. Captan 50 WP per acre in 20 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 applications at 7 to 14 day intervals as necessary to maintain control. Continue applications through harvest if conditions favor Brown Rot. **Coryneum Blight (Shot-Hole)** - Apply 5 lbs. Captan 50 WP per acre in 20 to 250 gallons water by 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).

PEACHES: Brown Rot, Scab - 8 lbs. per acre in 20 to 400 gallons water using ground equipment. Apply at 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 to 7 to 14 day intervals as needed to maintain control. Continue applications through harvest if conditions favor Brown Rot. **Coreyneum Blight (Shot-Hole)** - Apply 8 lbs. Captan 50 WP per acre in 20 to 400 gallons 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).

PRUNES, PLUMS: Brown Rot - 6 lbs. per acre in 20 to 300 gallons water using ground equipment. Apply at green bud, popcorn, bloom and petal-fall stages. Repeat in cover sprays as conditions warrant. **Prune Russet Scab (Lacy Scab in California)** - 8 lbs. per acre in 20 to 300 gallons water using ground equipment. Apply at full bloom.

STRAWBERRIES: Botrytis Rot - 3 lbs. 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 7 to 14 day intervals. Total application rate not to exceed 48 lbs. per acre per year. May be applied up to day of harvest. The formula given below, is for calculating the reduced rate per treated acre when applying by directed or banded sprays:

$$\text{Banded rate} = \frac{\text{Plant Bed Width (inches)}}{\text{Row Spacing (inches)}} \times \text{Broadcast rate per acre of Captan per acre}$$

IMPORTANT: Read these entire Directions and Conditions of Sale before using this product. **DISCLAIMER:** SureCo warrants that this product conforms to the chemical description on the label and is reasonably fit for the specific purposes referred to in the Directions For Use, subject to the inherent risks referred to above. SureCo makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty. In no case shall SureCo be liable for consequential, special, or indirect damages resulting from the use, handling or application of this product.

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