

Reg # 51036-167

PM-23

File

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United States Environmental Protection Agency
Washington, D.C. 20460

OCT 4 1993

Office of
Prevention, Pesticides and
Toxic Substances

Morris Gaskins
MICRO-FLO CO.
BOX 5948
LAKELAND FL 33807

Subject: Label Amendment Submission of 06/04/93
in Compliance with WPS Labeling Requirements
EPA Reg No. 51036-167
CAPTAN 4 FLOWABLE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped "Accepted with comments" is attached. Make any required changes described in the attached and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)

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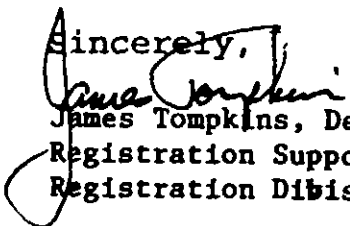
Office of Pesticide Programs (H-7504C)
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460-0001

Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL)
Room 266A Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling the "Agricultural Use Requirements" text must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,

James Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

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MICRO-FLO CO.
CAPTAN 4 FLOWABLE
51036-167 06/04/93
Original Submission

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

The Agricultural Use Requirements section must either be placed in a box or printed on the label in a contrasting color from the surrounding text.

Delete "notification to workers" from the first paragraph of the Agricultural Use Requirements section.

Delete from the Agricultural Use Requirements the following: "Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas."

There is a typographical error(s) in the engineering control statement(s).

There is a typographical error(s) in the User Safety Recommendations section.

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Draft labeling for WPS language in response to PR 93-7

CAPTAN 4 FLOWABLE

**Aqueous Suspension
Agricultural Fungicide**

ACTIVE INGREDIENT:

*Captan	38.70%
Related Derivatives	0.90%
INERT INGREDIENTS:	60.40%
TOTAL	100.00%

*N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide (Contains 4 lbs. Active Ingredient per gallon)

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

CAUSES IRREVERSIBLE EYE DAMAGE

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

Immediately start the procedures given below and contact a Poison Center, a 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. Call a physician or poison control center. 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.

EPA Reg. No. 51036-167

EPA Est. No. 51036-GA-1

Manufactured By
MICRO FLO COMPANY
P.O. Box 5948

ACCEPTED
with COMMENTS
in EPA Letter Dated

1992

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 51036-167

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LAKELAND, FLORIDA 33807

PRODUCT FREEZING TEMPERATURE: 32 Degrees F. Satisfactory utility may generally be restored after thawing and mixing a product which has frozen. Repeated freezing-thawing cycles may impair utility. This product is sold only for uses stated on the label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: U.S.A.

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 must wear:

1. Long-sleeved shirt and long pants
2. Waterproof gloves
3. Shoes plus socks
4. Protective eyewear

Mixers and loaders must wear:

1. Coveralls over short-sleeved shirt and short pants
2. Waterproof gloves
3. Shoes plus socks
4. Protective eyewear
5. Chemical resistant apron when 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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control:

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 RECOMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing
3. 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 wetlands (swamps, bogs, marshes, and potholes). Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not clean 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.

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, notification to workers, and restricted-entry intervals. 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:

- 1. Coveralls
- 2. Waterproof gloves
- 3. Shoes plus socks
- 4. Protective eyewear

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

BEFORE USING 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.

CHEMIGATION PROHIBITION

Do not apply this product through any type of irrigation system. Captan 4 Flowable is an aqueous suspension for use in water as a spray for the control of certain fungus diseases of fruit.

USE PRECAUTIONS

Observe use limitations given on the label for specific crops. In order that pesticidal residues on food and forage crops will not exceed tolerances established by the Environmental Protection Agency, 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 damage 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 time of applications needed will vary with local conditions.

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. Store in a cool

dry place (below 110 degrees F.) Protect from freezing temperatures (32 degrees F or lower).

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

FRUIT AND NUT CROPS USE PRECAUTIONS

Applications can be made by aircraft or ground power equipment (including concentrate and semi-concentrate equipment). Applications to certain crops can be made ONLY by ground application.

(GROUND APPLICATION ONLY - Apricots, Cherries, Nectarines, Plums, Fresh Prunes).

For aerial or concentrate spray applications, apply the same amount of Captan 4 Flowable per acre as would normally be applied for dilute sprays. 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.

ALMONDS:

Brown rot twig and blossom blight, shothole, scab, leaf blight - Apply 4 1/2 quarts Captan 4 Flowable 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 pest infestations and state agricultural extension service recommendations, provided the hulls are not fed to dairy animals or animals being finished for slaughter.

APPLES (Western U.S.):

Primary scab - Apply 4 quarts Captan 4 Flowable per acre in a high volume application for preblossom sprays. In mid-summer, the dosage may be reduced to 2 quarts per acre in high volume applications.

(Pacific northwest) - Bull's eye rot, Botrytis rot - Apply 4 quarts Captan 4 Flowable 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

APRICOTS (GROUND APPLICATION ONLY):

Brown rot (twig blight), jacket rot - Apply 2 1/2 quarts Captan 4 Flowable per acre in 20 to 250 gallons of water using ground equipment. Apply in red bud bloom, 75% petal fall, and cover sprays.

BLUEBERRIES (Western U.S.):

Botrytis gray mold or berry rot, mummy berry - Apply 1 to 2 1/2 quarts Captan 4 Flowable 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 2 1/2 quarts Captan 4 Flowable 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 (Western U.S. GROUND APPLICATION ONLY):

Brown rot blossom blight, brown rot (fruit), leaf spot - Apply 2 quarts Captan 4 Flowable per acre in 20 to 200 gallons of water using ground equipment. Apply in prebloom, bloom, petal fall, shuck, cover and preharvest sprays.

GRAPES (California):

Bunch rot (Botrytis) - Apply 2 quarts Captan 4 Flowable per acre in 20 to 200 gallons of water using ground equipment. Make 2 applications before bloom and immediately after bloom. Repeat periodically making 3 cover applications before the bunches close. Dead Arm (current season infection) - Apply 1 1/2 to 2 quarts Captan 4 Flowable per acre in 20 to 200 gallons of water using ground equipment. Apply 2 quarts Captan 4 Flowable per acre in 7 to 20 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.

NECTARINES (GROUND APPLICATION ONLY):

Brown rot, scab - Apply 2 1/2 quarts Captan 4 Flowable 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 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 7.5 lbs. sulfur per acre to the petal fall, shuck and early cover sprays. If sulfur is added, Captan 4 Flowable may be reduced to 1 1/2 quarts per acre in these sprays.

Coryneum blight (peach blight, shothole) - Apply 4 quarts Captan 4 Flowable 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).

PEACHES:

Brown rot, scab - Apply 4 quarts Captan 4 Flowable 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 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. 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 4 Flowable may be reduced to 2 quarts per acre in these sprays.

Coryneum blight (peach blight, shothole) - Apply 4 quarts Captan 4 Flowable per acre in 20 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 (NURSERY STOCK) (California):

Preventative preplant dip treatment for crown gall. Use 2 quarts Captan 4 Flowable plus 3.2 pints 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 20 ppm chlorine. Check the concentration frequently using a chlorine test kit.

PLUMS, FRESH PRUNES (Western U.S. GROUND APPLICATION ONLY):

Brown rot - Apply 3 quarts Captan 4 Flowable 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 russet scab (lacy scab) (in California only) - Apply 3 quarts Captan 4 Flowable per acre in 20 to 300 gallons of water using ground equipment. Apply at full bloom.

STRAWBERRIES:

Botrytis (gray mold), leaf spot - For ground application, apply 3 quarts Captan 4 Flowable 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.

POST-HARVEST DIP: Captan can be used as a post-harvest dip or wash on the following crops for prevention of various rots and molds (Rhizopus, Botrytis, Gloeosporium) during storage:

Apples, Cherries, Pears.

Dilution Rate: Use 1 1/4 quart per 100 gallons water. Apply as a spray or in dip tank. When used as a dip, recharge wash solution

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periodically as volume in tank is depleted. When tank volume is reduced 25%, bring water back to volume adding 3/8 quart Captan 4 Flowable for every 25 gallons of water 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 operations.

CAPTAN wastes are acutely 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 at the nearest EPA Regional Office of guidance concerning the disposal of spent or excess dip tank mixtures.

CONDITIONS OF SALE

All statements concerning the use of this product apply only when used as directed.

THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL.

Read all directions carefully.