

12 FEB 1992

Mr. Morris Gaskins
Micro Flo Co.
P.O. Box 5948
Lakeland, FL 33807

Dear Mr. Gaskins:

Subject: Captec 4L[®]
EPA Registration No. 51036-181
Application Dated January 30, 1992, Request for
Amended Registration To Revise Use-Patterns and
Confidential Statement of Formula

The proposed compatibility statement in regard to use following use of oil sprays and not to use with solvent based formulations of pesticide products; and the revised instructions for use on grapes and apples are acceptable under section 3(c)(7)(A) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, provided that you:

1. Revise the mixing directions on page 3 by the following revision: "and balance of water...." to read "add balance of water.....".
2. Use the matrix format of the presently accepted labeling. This will allow you to avoid the use of the phrases such as: "4.0 maximum quarts/acre/ application", which could be misunderstood by the reader of the directions. It must be written to say: "Do not exceed the use of 4.0 quarts/acre/ application".
3. The Environmental Hazards statement on the label that reads: "Do not apply directly to water or wet-lands (swamps, bogs, marshes and portholes)." must be revised to read: "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."
4. Submit five (5) printed copies of the final printed labeling 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.

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The confidential statement of formula submitted on EPA Form 8570-4 and dated January 30, 1992 is an acceptable amendment to the registration of the subject pesticide product. That statement has been added to the EPA file for this product registration.

Sincerely yours,

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

enclosure

ewilson:diskette#10001a:02-11-92

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1/10/92 399
12h - 5 min.

**MICRO FLO
CAPTEC 4L
Captan Flowable Fungicide**

ACCEPTED
with COMMENTS
in EPA Letter 51036-181

12 FEB 1992

ACTIVE INGREDIENT:

*Captan 37.4%
Related Derivatives 0.8%

INERT INGREDIENTS: 61.8%

TOTAL 100.0%

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

Contains 4 lbs. of Captan per gallon.

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

51036-181

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicato ampliamente.

STATEMENT OF PRACTICAL TREATMENT

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. 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 immediately with soap and water.

EPA Reg. No. ~~105-51036-181~~

EPA Est. No. 51036-GA-1

51036-181

Manufactured By:

MICRO FLO COMPANY

P.O. Box 5948, Lakeland, FL 33807

PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

DANGER PELIGRO

Causes irreversible eye damage. Harmful if swallowed or inhaled. Do not get in eyes. Wear goggles and face shield when handling. May cause allergic skin reaction. Avoid contact with skin and clothing. Remove and separately launder clothing before reuse. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

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 equipment or dispose of equipment washwaters in a manner that will contaminate water resources.

DIRECTIONS FOR USE

new statement
here!

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

Wear goggles or face shield when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and separately launder clothing before reuse.

Mixers/loaders when mixing and loading this product must wear a long sleeved shirt and long pants or a coverall that covers all parts of the body except the head, hands and feet. Wear chemical resistant gloves, goggles or a face shield and a chemically resistant apron. Fieldworkers and harvesters entering treated areas within 4 days following application must wear chemical resistant gloves. Leather or fabric gloves are not acceptable.

AFTER WORK: Take off all clothes and shoes. Shower using soap and water. Do not wear contaminated clothing. Wash protective clothing and equipment with soap and water after each use. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with Captan must be destroyed according to state and local regulations.

During application only, from a tractor with a completely enclosed cab or from an aircraft with an enclosed cockpit a long sleeved shirt and long legged pants must be worn. Chemically resistant gloves must be available in the cab or cockpit and worn while exiting.

STORAGE AND DISPOSAL

STORAGE: Store in a cool, dry place, but protect from temperatures below 0 degrees F. Protect from excessive heat.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excessive 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 incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

RE-ENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not allow persons to enter treated areas within 4 days following application unless a long-sleeved shirt and long pants or a coverall that covers all parts of the body except the head, hands and feet and chemically resistant gloves are worn.

Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered

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without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure). When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: **DANGER.** Area treated with **CAPTAN** on (date of application). In case of accidental exposure, see Statement of Practical Treatment.

GENERAL INFORMATION

Read all precautions and directions for use before using. Use only for claims listed and only as specified on this label. Do not apply this product through any type of irrigation system. Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. 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.

Applications can be made by aircraft or ground equipment, unless prohibited under the directions for use site. For aerial or concentrate spray applications, apply the same amount of CAPTEC 4L per acre as for dilute spray applications. Apply aerial or concentrate sprays in sufficient water for coverage. Use spray volumes of no less than 10 gallons per acre for aerial application.

CAPTEC 4L is an aqueous suspension for use in water as a spray for control of certain fungal diseases of fruit and certain ornamental plants.

MIXING DIRECTIONS: Before using, mix contents thoroughly, stir well. Pour recommended amount of this material into spray tank when half full, and 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 the entire system.

COMPATIBILITY: CAPTEC 4L may be combined with most commonly used insecticides and fungicides with the exception of strongly alkaline material such as hydrated lime, which reduces the fungicidal activity. CAPTEC 4L should not be used within 10 to 14 days following oil sprays. Do not use with solvent based formulations of pesticide products.

GENERAL INSTRUCTIONS

When low and high rates are indicated for a crop, use the higher rate when conditions favor disease development or when active disease can be found.

The following tables show suggested minimum spray volumes per acre; however, thorough coverage is essential for best results. The stage of growth and size are major factors in determining spray volume required to obtain thorough coverage. If there is a question regarding spray volumes needed, consult local extension service recommendations for spray volumes applicable to your particular crop. Unless otherwise specified, application can be made on day of harvest.

SUGGESTED MINIMUM SPRAY VOLUMES/ACRE FOR EFFECTIVE COVERAGE

DILUTE	CONCENTRATE	AERIAL
100 gallons	50 gallons	10 gallons

CAPTEC 4L RATES ARE SHOWN ON A DILUTE BASIS. UNLESS OTHERWISE SPECIFIED BY CROP, CONCENTRATE AND/OR AERIAL SPRAYS MAY BE APPLIED AT A RATE NOT

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TO EXCEED THAT RECOMMENDED PER ACRE FOR DILUTE SPRAYS SO LONG AS MAXIMUM RATE PER ACRE PER APPLICATION IS NOT EXCEEDED.

APPLICATION INSTRUCTIONS

ALMONDS: Brown Rot (Twig Blight), Jacket Rot, Shothole, Scab, Leaf Blight - 0.75 - 1.0 Quarts/100 Gallons/Application - 4.5 maximum quarts/acre/application. Apply at popcorn, bloom, petal fall stages and up to 5 weeks after petal fall.

NOTE: 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: CAUTION - Do not use 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. **SPRAYS** - For pre-blossom sprays, use a dilute spray.

(EASTERN AREAS): Primary Scab, Black Rot, (Frogeye), Botrytis Blossom End Rot - 0.75 - 1.0 Quarts/100 Gallons/Application - 4.0 maximum quarts/acre/application. Apply at 5 to 7 day intervals as needed to maintain cover in pre-bloom, bloom, petal fall and first cover sprays. Secondary Scab, Brooks Fruit Spot, Sooty Blotch, Fly Speck, Black Rot, Black Pox, Botryosphaeria Rot, Bitter Rot - 0.5 - 1.0 Quarts/100 Gallons/Application - 4.0 maximum quarts/acre/application. Apply at 10 to 14 day intervals in cover sprays up to 10 to 14 days of harvest. Powdery Mildew - 0.5 - 1.0 Quarts/100 Gallons/Application - 4.0 maximum quarts/acre/application. Apply CAPTEC 4L as a mixture with 1.5 - 3 lbs. sulfur post bloom until the foliage matures.

(WESTERN AREAS): - Apple Scab - 0.75 - 1.0 Quarts/100 Gallons/Application - 4.0 maximum quarts/acre/application. CAPTEC 4L is most effective when used in a protective schedule before infection occurs. Primary infection of apple scab may occur at any time during and after the green tip stage when there is adequate moisture for spore germination. Danger from primary infection may extend through the time of the first cover spray.

(PACIFIC NORTHWEST): Bull's Eye Rot, Botrytis Rot - 1.0 Quarts/100 Gallons/Application - 4.0 maximum quarts/acre/application. Apply 1 or 2 applications with late cover sprays and a final application 1 week prior to harvest.

ON APPLES - Post Harvest Dip (except CA): For control of various molds and storage rots (Botrytis, Gleosporium, Rhizopus) - Mix 1.25 quarts in 100 gallons of water. Apply as a post harvest dip or a spray wash to apples. As a dip: Recharge wash solution when the tank volume is reduced by 25%. To retain volume, add 0.50 quart CAPTEC 4L for each 25 gallons of water added. At the end of 8 hours empty tank, flush and charge with fresh dilution. DO NOT allow dip tank solution to stand overnight. During dipping operation maintain continuous agitation.

APRICOTS - Brown Rot (Twig Blight), Jacket Rot - 0.75 - 1.0 Quarts/100 Gallons/Application - 2.5 maximum quarts/acre/application. Apply at red bud, bloom and repeat at 75% petal fall and in cover sprays. Do not apply aerially.

BLUEBERRIES (Eastern Areas) - Botrytis Gray Mold or Berry Rot, Mummy Berry - 0.75 - 1.0 Quarts/100 Gallons/Application 2.5 maximum quarts/acre/application. Apply in sufficient water for thorough coverage. Begin when buds swell or when

buds have loose scales, repeating at 7 day intervals through blossom period. Repeat at 7 to 10 day intervals from late bloom.

BLUEBERRIES (Western Areas) - Botrytis Gray Mold or Berry Rot, Mummy Berry - 0.75 - 1.0 Quarts/100 Gallons/Application 2.5 maximum quarts/acre/application. Apply in sufficient water for thorough coverage. Begin at mid-bloom, repeating every 7 to 10 days as needed.

CHERRIES (Eastern Areas): Brown Rot, Leafspot, Botrytis Rot - 0.75 Quarts/100 Gallons/Application - 2.0 maximum quarts/acre/application. Apply at pre-bloom, bloom, petal fall, shuck, cover and preharvest. Applications every 3 to 4 days may be necessary during bloom to control blossom blight. Repeat at 7 to 20 days as needed up to harvest. Do not apply aerially. Powder Mildew - 0.75 - 1.0 Quarts/100 Gallons/Application - 2.0 maximum quarts/acre/application. Apply CAPTEC 4L as a mixture with 1.5 - 3 lbs. (not to exceed 6 lbs.) sulfur to petal fall, shuck or early cover sprays. If sulfur is added, CAPTEC 4L may be reduced to the low use rate in 100 gallons of water (0.75 quart) or 1.5 quart per acre. Do not apply aerially. Leafspot (Post Harvest Spray) - 0.75 - 1.0 Quarts/100 Gallons/Application 2.0 maximum quarts/acre/application. Apply immediately after harvest, repeating in 10 to 14 days. Do not apply aerially.

CHERRIES (Western Areas): Cherry Leaf Spot, Brown Rot, Botrytis Rot - 0.75 - 1.0 Quarts/100 Gallons/Application - 2.0 maximum quarts/acre/application. Apply at pre-bloom, bloom and petal fall. Repeat in cover sprays. Do not apply aerially.

CHERRIES ONLY: Post Harvest Dip (except CA): For control of various molds and storage rots (Botrytis, Gleosporium, Rhizopus). Mix 1.25 quarts in 100 gallons of water. Apply as a post harvest dip or a spray wash to cherries. As a Dip: Recharge wash solution when the tank volume is reduced by 25%. To retain volume, add 0.50 quart CAPTEC 4L for each 25 gallons of water added. At the end of 8 hours, empty tank, flush and charge with fresh dilution. DO NOT allow dip tank solution to stand overnight. During dipping operation, maintain continuous agitation.

GRAPES (Eastern Areas): Downy Mildew, Black Rot - 0.75 - 1.0 Quarts/100 Gallons/Application - 2.0 maximum quarts/acre/application. Make first application just before bloom, repeat just after bloom and at 10 to 14 day intervals for 1 to 3 additional applications depending upon the susceptibility of the grape variety. Phomopsis Cane and Leaf Spot - 0.75 - 1.0 Quarts/100 Gallons/Application - 2.0 maximum quarts/acre/application. Apply when shoots are, 1/2 to 1 1/2 inches long, 3 to 5 inches long and 8 to 10 inches long. Continuous thereafter at 10 to 14 day intervals as disease conditions warrant.

GRAPES (Western Areas): Phomopsis Cane and Leaf Spot - 1.0 Quarts/100 Gallons/Application - 2.0 maximum quarts/acre/application. Apply 200 gallons of spray per acre. Start when new shoots are 3 to 4 inches long and before the first infective rains. Make a second spray when shoots are 12 to 15 inches long and a third spray before the bunches close. Botrytis - 1.0 Quarts/100 Gallons/Application - 2.0 maximum quarts/acre/application. Apply twice before bloom and once after bloom, repeating periodically, making 3 cover applications before bunches close.

NECTARINES: Brown Rot, Scab, Coryneum Blight (Shot Hole) - 0.75 - 1.0 Quarts/100 Gallons/Application - 4.0 maximum quarts/acre/application. Apply at pink bud, full bloom and petal fall stages. Repeat at 10 to 14 day intervals after petal fall.

Make late fall applications (to trees after fruit has been harvested) for Coryneum Blight. Do not apply aerially.

PEACHES: Brown Rot, Scab, Coryneum Blight (Shot Hole) - 0.75 - 1.0 Quarts/100 Gallons/Application - 4.0 maximum quarts/acre/application. Apply at pink bud, full bloom and petal fall stages. Repeat at 10 to 14 day intervals after petal fall. Make late fall applications (to trees after fruit has been harvested) for Coryneum Blight.

PLUMS (Eastern) - Brown Rot - 1.0 - 3.0 Quarts/100 Gallons/Application - 3.0 maximum quarts/acre/application. Apply at pink bud, full bloom and petal fall stages. Repeat at 10 to 14 day intervals after petal fall. Do not apply aerially.

PLUMS (Western) - Brown Rot - 1.0 - 3.0 Quarts/100 Gallons/Application - 3.0 maximum quarts/acre/application. Apply at green bud, popcorn, bloom and petal fall stages. Repeat as needed after petal fall. Do not apply aerially.

SUGGESTED MINIMUM SPRAY VOLUMES/ACRE FOR STRAWBERRIES

GROUND: 40 gallons AERIAL: 10 gallons

STRAWBERRIES: Botrytis, Leaf Spot - 1.5 - 3.0 Quarts/100 Gallons/Application - 3.0 maximum quarts/acre/application. Apply when new growth starts before fruit starts to form. Repeat weekly; under conditions favorable for fruit rot. Continue through harvest period, treating immediately after each picking.

ORNAMENTALS - USE PRECAUTIONS

Do not apply a spray to ornamental plants beyond the point of drip from the leaf surface. 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 when using CAPTEC 4L as a drench. Workers planting in CAPTEC 4L treated soil must wear chemical resistant gloves. Only the applicator is permitted to be in the greenhouse during application of CAPTEC 4L. Open vents to greenhouse during application and for at least 1 hour after application.

APPLICATION INSTRUCTIONS

AZALEAS - Damping off of cuttings - Mix 2.0 quarts in 100 gallons of water and dip cuttings in the mixture before bedding. Petal Blight - Mix 1.0 quart in 100 gallons of water and apply the mixture as a spray to the soil around the plants prior to bloom, apply as a spray to the flowers just before bloom and repeat at 7 to 14 day intervals through bloom.

BEGONIAS (Tuberous) - Damping-off - Mix 2.0 quarts in 100 gallons of water and dip tubers for 30 minutes in mixture, drain and plant.

CAMELLIAS - Petal Blight - Mix 0.5 quart in 100 gallons of water and apply as a spray to the soil around plants when flowers begin to open, repeat at 7 to 10 day intervals through bloom.

CARNATIONS - Alternaria Leafspot, Rust - Mix 1.0 quart in 100 gallons of water and apply as a spray at first sign of disease. Repeat at 7 to 10 day intervals. Use the shorter interval if there is frequent rains and heavy dews. Damping-off of cuttings - Mix 1.0 quart in 100 gallons of water and dip cuttings in mixture before bedding.

CHRYSANTHEMUM - Botrytis Flower Blight, Septoria Leafspot - Mix 1.0 quart in 100 gallons of water and apply as a spray at first sign of disease, repeat at 7 to 10 day intervals. Damping-off of cuttings - Mix 2.0 quarts in 100 gallons of water and dip cuttings in mixture before bedding.

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DICHONDRA (California Only): White Mold - Mix 1.0 quart in 100 gallons of water using 1 gallon of spray for every 10 square feet, making 2 to 3 applications at 7 day intervals.

GLADIOLUS (Corms): Corm Rot and Decay, Damping-off - Mix 0.25 to 0.75 quarts in 10 gallons of water and dip corms for 20 to 30 minutes before planting.

GRASSES (Ornamentals in Non-Pastured Areas Only): Leafspot, Damping-off, Brown Patch, Melting Out, Seedling Blights, Brown Spot on St. Augustine Grass - Mix 1.0 quart in 100 gallons of water, applying 10 gallons spray for every 1000 square feet. Begin at spring growth, repeating 7 to 14 day intervals throughout the season. Do not graze or feed clippings of treated areas to livestock.

GRASSES (Lawn Seedbeds): Damping-off, Other Soil Borne Diseases - Mix 1.0 quart in 100 gallons of water, applying 10 gallons spray for every 1000 square feet. Cultivate into top 3 to 4 inches of soil before planting.

ROSES: Black Spot, Botrytis Blossom Blight - Mix 1.0 quart in 100 gallons of water and apply as a spray at first sign of disease, repeat at 7 to 10 day intervals. Use the shorter interval if there is frequent rains and heavy dews.

SOIL AND GREENHOUSE BENCH TREATMENT: Damping-off, Root rot Diseases on Seedling or Transplants of Roses (other Shrubs, Trees, Flowers) & Lawn Seedbeds - Mix 1.0 quart in 100 gallons of water at a rate of 15 gallons for every 1000 square feet. Cultivate into top 3 to 4 inches of soil before planting.

CAPTEC 4L wastes are acutely hazardous. Improper disposal of spray or dip tank mixtures is a violation of Federal Law. Contact your Environmental Control Agency, State Pesticide or Hazardous Waste representative for information concerning the disposal of spent or excess dip tank mixture.

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.

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