

PM 23 51036-181

Page Label
1 of 15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DEC 22 1993

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Morris Gaskins
MICRO-FLO CO.
P. O. Box 5948
Lakeland, FL 33807

Subject: Label Amendment Submission of 06/04/93 in Response to PR Notice 93-7
EPA Reg. No. 51036-181
CAPTEC 4L-CAPTAN FLOWABLE FUNGICIDE

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

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

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

AND

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
 Office of Pesticide Programs (7505C)
 U.S. Environmental Protection Agency
 401 M Street, SW
 Washington, D.C. 20460-0001

MICRO-FLO CO.
CAPTEC 4L-CAPTAN FLOWABLE FUNGICIDE
51036-181 6/4/93

Original Submission

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

Only one PPE statement is necessary. See markup on label.

There is a typo in User Safety Recommendations. See markup on label.2

4 of 15

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

MICRO FLO

CAPTEC 4L

Captan Flowable Fungicide

ACTIVE INGREDIENT:

*Captan	37.4%
Related Derivatives	0.8%
INERT INGREDIENTS:	61.8%
TOTAL	100.0%

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

Contains 4 lbs. of Captan per gallon.

ACCEPTED
with COMMENTS
by EPA Letter Dated

DEC 22 1993

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

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

51036-181

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

- 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. 51036-181

EPA Est. No. 51036-GA-1

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. May cause allergic skin reaction. Avoid contact with skin and clothing. 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.

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. Longs-sleeved shirt and long pants
2. Waterproof gloves
3. Shoes plus socks
4. Protective eyewear
5. Chemical resistant apron when mixing or loading
6. 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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE seperately 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, 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.

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 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

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.

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, 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 the entire system.

COMPATIBILITY: CAPTEC 4L may be combined with most commonly used insecticides, adjuvants 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 TO EXCEED THAT RECOMMENDED PER ACRE FOR DILUTE SPRAYS SO LONG AS MAXIMUM RATE PER ACRE PER APPLICATION IS NOT EXCEEDED.

DO NOT EXCEED THE USE OF 4.0 QUARTS/ACRE/APPLICATION.

APPLICATION INSTRUCTIONS
Rate Per Application

CROP	Disease	QTS/100 Gallons/ Application	MAXIMUM QTS/A/ Application
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ALMONDS: Brown Rot (Twig Blight),
Jacket Rot, Shothole,

Scab, Leaf Blight 0.75 - 1.0 4.0

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 dairv animals or animals being finished for slaughter.

APPLES:

CAUTION - Do not use in combination with or closely following or in alternation with wetttable 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 4.0

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 4.0

Apply at 10 to 14 day intervals ir cover sprays up to 10 to 14 days of harvest.

Powdery Mildew 0.5 - 1.0 4.0

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 4.0

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	4.0

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.

AFRICOTS

Brown Rot (Twig Blight), Jacket Rot	0.75 - 1.0	2.5
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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	2.5
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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.

(Western Areas) (Not for use in California)

Botrytis Gray Mold or Berry Rot, Mummy Berry	0.75 - 1.0	2.5
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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 0.75-1.0 2.0

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 2.0

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 2.0

Apply immediately after harvest, repeating in 10 to 14 days. Do not apply aerially.

(Western Areas)

Cherry Leaf Spot,
Brown Rot, Botrytis
Rot 0.75 - 1.0 2.0

Apply at pre-bloom, bloom and petal fall. Repeat in cover sprays. Do not apply aerially.

CHERRIES ONLY:

Post Harvest Dip (except California): 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 2.0

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	2.0
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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.

(Western Areas): (Not for use in California)

Phomopsis Cane and Leaf Spot	1.0	2.0
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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	2.0
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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	4.0
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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	4.0
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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	3.0
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Apply at pink bud, full bloom and petal fall stages. Repeat at 10 to 14 day intervals after petal fall. Do not apply

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aerially.

**PLUMS
(Western)**

Brown Rot	1.0 - 3.0	3.0
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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	3.0
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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.

NOTE: Do not exceed 2.5 Qt/acre per application in California.

**ORNAMENTAL
USE PRECAUTIONS**

Do not apply 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
(NOT FOR USE IN CALIFORNIA)**

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.

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.