

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

7103 400-1134

1047

21 MAY 1992

Mr. William F. Cummings  
KINGAL Chemical Company, Inc.  
24 ACLE, R080  
Bellingham, Connecticut 06524-2402

Dear Mr. Cummings:

SUBJECT: LPT10 AF  
EPA Registration No. 400-4.4  
Re: Label Amendment  
Your letter dated August 1, 1991

The labeling referred to above submitted in connection with registration under the Federal Insecticide, Fungicide and Herbicide Act as amended is acceptable. Please submit five (5) copies of your final printed labels incorporating this amendment. A stamped copy of labeling is enclosed for your records.

Sincerely,

Jeanne L. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (R-10050)

Enclosure

**BEST AVAILABLE COPY**

CONCURRENCES							
SYMBOL	H-7505C						
SURNAME	M. Metzger						
DATE	4/28/92						

# OPTIMA 4F

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### CAUTION

Causes eye and skin irritation. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid inhaling of spray mist. Do not use or store near food or feed.

Wash hands, arms and face thoroughly with soap and water after handling and before eating or smoking. Routinely shower or bathe after work; wash all clothing with soap and water before reusing. Consumption of alcoholic beverages increases the toxic effects of thiram.

### ENVIRONMENTAL HAZARDS

This pesticide product is toxic to fish. Do not contaminate water when disposing of equipment washwaters. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

ACCEPTED PURF FUNGICIDE

21 MAY 1992

Under the Federal Insecticide,  
Fungicide and Rodenticide Act,  
as amended, this pesticide  
is registered.  
EPA Reg. No. 400-434

**UNIROYAL  
CHEMICAL**

### COMPOSITION

Active Ingredients: (% by weight)	
Thiram (tetramethylthiuram disulfide)	42%
Inert Ingredients:	58%
Total:	100%

Contains 4 pounds thiram per U.S. gallon.

## STORAGE AND DISPOSAL

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

**STORAGE:** Store in a cool location. Keep container tightly closed to prevent evaporation. Stir before using.

**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 other procedures approved by State and local authorities.

## KEEP OUT OF REACH OF CHILDREN

### CAUTION

#### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Immediately flush eyes with plenty of water. See a physician.

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** See a physician if an abnormal reaction occurs.

**IF ON SKIN:** Wash thoroughly with soap and water.

**SYMPTOMS OF POISONING:** No specific symptoms. Acute poisoning is accompanied by general depression and illness. Consumption of alcoholic beverages with exposure to Thiram may cause flushing, breathing difficulty, nausea, vomiting and low blood pressure. In case of poisoning, call a physician immediately. Have patient lie down and keep quiet.

**NOTE TO PHYSICIAN:** No specific antidote is available. Treat symptomatically. In the presence of consumed alcohol thiram responds similarly to Disulfiram.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT.

UNIROYAL CHEMICAL COMPANY, INC.

Middlebury, CT 06749

EPA REG. NO. 400-434

EPA EST. NO.

NET CONTENTS:

**BEST AVAILABLE COPY**

Lot No.

001

## 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.

### GENERAL INFORMATION

OPTIMA 4F may be used as a fungicide for the control of Snow Mold, Brown Patch and Dollar Spot on turf or as a repellent for use in protecting trees, shrubs and ornamental plants for rabbit, deer and rodent depredation.

OPTIMA 4F is a suspension concentrate which, when mixed with water, is used as a dip application for young plants or sprayed onto the turf or plant foliage using standard spray equipment. OPTIMA 4F can also be applied undiluted with a brush to stems and trunks of plants.

### FOR DISEASE CONTROL ON LAWNS AND TURF

OPTIMA 4F, when used in conjunction with good turf management, will prevent and control Snow Mold, Brown Patch and Dollar Spot on golf greens, grass tennis courts, lawns and other fine turf.

### MIXING INSTRUCTIONS

Thoroughly mix contents in container before using. Fill the spray tank with the required amount of water. Then add the recommended amount of OPTIMA 4F to the spray tank. OPTIMA 4F is a suspension type product, therefore, constant agitation during mixing and application is necessary to maintain a uniform solution. Be sure to reagituate solution if spraying is interrupted. Make up only as required. Do not store overnight in the spray tank.

### APPLICATION INSTRUCTIONS

Use enough water to spray or sprinkle the area thoroughly (usually 5 to 10 gallons per 1,000 square feet).

For high pressure sprayers, use from 200 to 300 pounds pressure and 5 gallons of water per 1,000 square feet applied as a fine spray.

### USE RATES AND TIMINGS

Disease	Treatment Type	Rate of OPTIMA 4F/1000 sq.ft.
Snow Mold	Fall Application	12 fluid ounces
	Spring Application	4.5 fluid ounces
Apply as late in the Fall as possible, prior to snowfall. Follow with a Spring application as soon as snow melts.		
Brown Patch Dollar Spot	Preventative	4.5 fluid ounces
	Curative	6.75 fluid ounces
Make regular spray applications at intervals of 7 to 10 days. When conditions are unusually favorable for the development of disease or the disease is active, reduce the interval between sprays to 3 to 5 days and use the rate for curative treatment listed above. Begin spray before the earliest probable appearance of the disease and continue throughout the season. When a preventive spray schedule is not followed, the turf should be sprayed each morning and treatment applied at 1/2 gallon per 1,000 sq. ft. until conditions are favorable and approach.		

NOTE: Do not water or mow for 24 hours after treatment. Do not apply to wet grass. Do not apply to snow. Do not apply to frozen grass. Do not apply to grass that has been treated with a herbicide.

4025

**FOR USE AS A REPELLENT ON NON-BEARING TREES, SHRUBS,  
NURSERY STOCK AND ORNAMENTALS**

OPTIMA 4F, when used as directed, protects non-bearing trees, shrubs, nursery stock and ornamentals from rabbit, deer and rodent depredation. Repellency results from the distastefulness of treated plant parts.

One application will protect treated parts from 1 to 3 months, depending on weather conditions.

The addition of a latex type sticker as directed will prolong the residual effectiveness of the treatment.

**MIXING INSTRUCTIONS**

Thoroughly mix contents of container before using. Fill the spray tank with required amount of water. Then add the recommended amount of OPTIMA 4F to the spray tank.

OPTIMA 4F is a suspension type product, therefore, constant agitation during mixing and application is necessary to maintain a uniform solution.

Mix only enough solution for immediate use as the solids will settle and are difficult to resuspend. Do not store overnight in the spray tank.

Where a sticker is advised for prolonged retention, use a suitable resin. Do not use wetting or spreading additives (surfactants) as severe crop injury may result.

**APPLICATION RECOMMENDATIONS**

Do not apply to fruit trees or other plants with edible fruit that will bear fruit within one year of application.

Thoroughly flush sprayer screens and nozzles promptly following use.

Treat before expected time of animal damage. Thoroughly cover area to a point well above the reach of animals.

To permit repellent film to properly set, application should be made under favorable drying conditions (relative humidity below 70%) and when the temperature is above 40°F.

Apply OPTIMA 4F undiluted with a brush, or diluted with water at a ratio of 1 gal. Spray applications should be made with a hand or power pressure sprayer to give a heavy coating to the twigs and foliage to be protected.

**Brush on Coatings:** Apply OPTIMA 4F undiluted with a brush to all parts and surfaces to be protected. To increase residual beyond 3 months, add a small amount (1% to 3%) of latex-type sticker.

**Spray Applications During the Growing Season:** Add 1 qt. of OPTIMA 4F and 1 pt. of latex type sticker to 7 qts. of water. Apply as a fine mist spray to the point of runoff to all portions of the plant to be protected. Repeat applications may be necessary to protect new growth. The use of the sticker is not necessary under low rainfall conditions or where repeat applications are needed to cover new growth.

**Spray Application, Tree Trunks or Dormant Plants:** Add 1 pt. of OPTIMA 4F to 3 qts. of water. Spray all portions of the plant to be protected to the point of runoff. For longer protection, add 1 pt. of latex type sticker.

**Spray Application, Dormant Apple Twigs, for Protection from Deer:** Add 1 qt. of OPTIMA 4F plus 1 gal. of latex-type sticker to 100 gal. of water. Apply as a twig spray following leaf fall, thoroughly wetting all surfaces to be protected. This rate will also protect summer growth from deer damage. A rate of OPTIMA 4F may be needed under conditions of heavy deer pressure.

**Spot Application:** Thoroughly wet the area to be protected with water. Then apply OPTIMA 4F by dipping the plant part to be protected in the product. Repeat applications may be necessary under conditions of heavy animal pressure.

**NOTE:** For information on the use of OPTIMA 4F on other animals, see the label on the container.

**CAUTION:** Treated with animal wear rubber gloves and protective clothing when handling products treated with OPTIMA. Direct exposure to skin may result in severe dermatitis.

**IMPORTANT NOTICE-** Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.