

PM 23 100-434 1073

OPTIMA 4F

TURF FUNGICIDE

**UNIROYAL
CHEMICAL**

REGISTERED
AUG - 4 1994
EPA REG. NO. 400-434
EPA EST. NO. 400-434

COMPOSITION

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

Contains 4 pounds thiram per U.S. gallon

UNIROYAL CHEMICAL COMPANY, INC., Middlebury, CT 06749
EPA REG. NO. 400-434
EPA EST. NO.

002WPS

NET WEIGHT

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.

**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. Avoid inhaling of spray mist. Do not use or store near food or feed.
Routinely shower or bathe after work. Consumption of alcoholic beverages increases the toxic effects of thiram.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an EPA chemical-resistance category selection chart.
Applicators and Other Handlers Must Wear: A long-sleeved shirt & long pants; chemical-resistant gloves, such as barrier laminate or butyl or nitrile or neoprene rubber or polyvinyl chloride or viton; shoes plus socks; protective eyewear

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.

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.

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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 through any type of irrigation system.

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 (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 24 hours.

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
- chemical resistant gloves such as barrier laminate, or butyl, or nitrile or neoprene rubber, or polyvinyl chloride or viton
- shoes plus socks
- protective eyewear

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 rabbits, 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 RATE 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 sprays before the earliest probable appearance of the diseases and continue throughout the season. When a preventative schedule is not followed, the turf should be inspected each morning and treatment applied at first sign of disease. When treating golf greens, always treat aprons and approaches.		

NOTE: Do not water or mow grass after treatment until the fungicide is thoroughly dry, preferably 24 hours after application. Do not graze treated areas. Do not feed grass clippings to livestock.

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 as a spray or dip. 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 stem parts and trunks to be protected. To increase residual beyond 3 months, add a small amount (2% to 4%) 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 full coverage spray to the point of runoff to all portions of the plant to be protected.

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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 qt. of OPTIMA 4F to 3 qts. 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 2 gals. of OPTIMA 4F plus 1 gal. of latex type sticker to 100 gals. of water. Apply as twig spray following leaf fall, thoroughly wetting twigs to a height of 5 feet. This rate will also protect summer growth from deer nibbling. Higher rates of OPTIMA 4F may be needed under conditions of heavy deer pressure.

Dip Application: Young nursery plants may be treated at the time of transplanting by dipping the tops in a solution prepared by mixing 1 qt. of OPTIMA 4F plus 1 qt. of latex type sticker in 2 qts. of water.

NOTE: Seedlings treated with this product must bear distinct labeling that instructs:

CAUTION: Treated with thiram. Wear rubber gloves and protective clothing when handling products treated with thiram. 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 nor any other 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.

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 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.