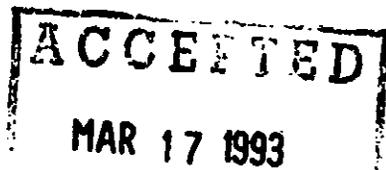


TERRAGUARD® 50W

ORNAMENTAL FUNGICIDE



COMPOSITION

Active Ingredients: (% by weight)	
1-[1-[[4-chloro-2-(trifluoromethyl) phenyl] imino]-2-propoxyethyl]-1H-imidazole	50.0%
Inert Ingredients	50.0%
Total:	100.0%

400-433

UNIROYAL CHEMICAL COMPANY, INC., Middlebury, CT 06749

EPA REG. NO. 400-433

EPA EST. NO.

005

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NET WEIGHT

**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 explicado ampliamente.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.
IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of Ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.
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.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Causes irreversible eye damage. Wear goggles or face shield when handling. Harmful if swallowed, inhaled, or absorbed through skin. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact with this product may cause allergic skin reactions in some individuals. Wash thoroughly with soap and water after handling. (Before handling this product read and follow Protective Clothing Requirements).

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

PHYSICAL or CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

Read entire label directions before using.

PROTECTIVE CLOTHING REQUIREMENTS

Applicators must wear a long sleeved shirt, long pants, mid-forearm length protective gloves, and protective boots when making applications. In addition, a protective apron and goggles or face shield must be worn during mixing/loading. Workers handling treated plant material, especially from the cutting dip, must wear protective gloves.

Care of Protective Clothing: Rinse gloves with water before taking them off, then wash your hands. Check gloves for cuts or holes. If the gloves are damaged, dispose of properly and get a new pair. Remove contaminated clothing and wash before reuse.

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GENERAL INFORMATION

TERRAGUARD 50W is a protectant fungicide to be used in repeat applications as a cutting soak, soil drench, foliar spray or through chemigation for control of diseases on certain diseases on ornamentals grown in enclosed commercial structures such as greenhouses, shade houses, nurseries and interiorscapes.

TERRAGUARD 50W is not an eradicant in plants and will only prevent the disease from spreading to adjacent plants. Best results are obtained when used in a preventative program following recommended rates and application directions. Initial applications should begin before the dis-

ease appears, however, if you do not apply as a preventative treatment, applications should begin at first sign of disease and repeated as needed. See use and rate recommendations for specific plants and diseases.

MIXING INSTRUCTIONS

Fill the mixing tank with half the required amount of water. Then add TERRAGUARD 50W with agitation to insure proper mixing and suspension of product. Fill the tank with the remaining amount of required water.

The mixture of TERRAGUARD 50W and water should be continuously agitated to assure uniform application.

ORNAMENTALS

APPLICATION NOTES

FOLIAR SPRAYS: The recommended rate of application is 1 gallon of spray mixture to cover 200 sq. ft. of area or 200 gallons per acre. This will provide foliage coverage just to the point of drip. Do not handle treated plants until sprays have dried.

SOIL DRENCHES: Apply the recommended rate of TERRAGUARD 50W according to the guidelines below. The application should be made to plants which have been well watered one day prior to application. For best results, irrigation with additional water should not be made until 24 hours after application.

FOR BED AND BENCH GROWN PLANTS

Soil Depth (inches) to be Drenched	Coverage for	
	TERRAGUARD 50W Drench Mix Fl. oz./Sq. ft.	Sq. ft./100 gals.
2 or less	16	800
3	24	530
4 or more	32	400

FOR CONTAINER GROWN PLANTS

Pot Diameter (inches)	Minimum Drench Volume (fl. oz./pot)
4	1.5
5	3
6	4
8	7
10	13
12	18

DISEASES CONTROLLED

Common Name	Causal Agent
Aerial Blight/Root Rot	<i>Rhizoctonia solani</i>
Black Root Rot	<i>Thielaviopsis spp.</i>
Leaf Spot	<i>Alternaria spp.</i>
Leaf Spot	<i>Exserohilum rostratum</i>
Petiole Rot	<i>Myrothecium roridum</i>
Powdery Mildew	<i>Erysiphe cichoracearum</i>
Powdery Mildew	<i>Erysiphe lagerstroemiae</i>
Powdery Mildew	<i>Podosphaera spp.</i>
Powdery Mildew	<i>Sphaerotheca pannosa</i>
Root Rot/Crown Canker	<i>Cylindrocladium scoparium</i>
Root Rot/Damping Off	<i>Cylindrocladium theae</i>
Root Rot/Petiole Rot	<i>Cylindrocladium spathiphylli</i>
Scab	<i>Venturia inaequalis</i>

USE AND RATE RECOMMENDATIONS

CROP	DISEASE	OUNCES TERRAGUARD 50W PER 100 GALS. (TSP./GAL.)	APPLICATION TYPE AND REMARKS
Bedding Plants Flowering Plants Foliage Plants such as: Areca Palm	Helminthosporium Leaf Spot (<i>Exserohilum rostratum</i>) (<i>Helminthosporium rostratum</i>)	4 - 8 ($\frac{1}{2}$ - 1 $\frac{1}{2}$)	FOLIAR SPRAY: Apply at weekly intervals as needed.
Boston Fern English Ivy	Rhizoctonia Aerial Blight (<i>Rhizoctonia solani</i>)		
Aphelandra Columbine Dianthus Heuchera Impatiens Lupine Pansy Philodendron Poinsettia Potheos Vinca	Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>)	4 - 8 ($\frac{1}{2}$ - 1 $\frac{1}{2}$)	SOIL DRENCH: Apply at 3 - 4 week intervals as needed.

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CROP	DISEASE	OUNCES TERRAGUARD 50W PER 100 GALS. (TSP./GAL.)	APPLICATION TYPE AND REMARKS
Pansy	Thielaviopsis Black Root Rot (<i>Thielaviopsis spp.</i>)	2 - 4 ($\frac{1}{2}$ - $\frac{3}{4}$)	SOIL DRENCH: Apply at 3 to 4 week intervals as needed. Use higher rate under heavy disease pressure.
Spathiphyllum	Cylindrocladium Root Rot and Petiole Rot (<i>Cylindrocladium spathiphylli</i>)	4 - 8 ($\frac{1}{2}$ - 1 $\frac{1}{2}$)	SOIL DRENCH: Use higher rates under heavier disease pressure which can occur under warmer conditions. Apply at 2 to 4 week intervals as needed. NOTE: Application may be made as a heavy spray over the foliage however, the volume applied should be the same as that required for the soil drench to insure adequate soil penetration. CHEMIGATION: Apply as a heavy spray to plants. For best results, use sufficient water volume to ensure adequate soil penetration. Repeat applications every 2 - 4 weeks as needed. Refer to Use Directions for Chemigation.
Spathiphyllum Syngonium	Myrothecium Petiole Rot (<i>Myrothecium roridum</i>)	4 - 8 ($\frac{1}{2}$ - 1 $\frac{1}{2}$)	FOLIAR SPRAY: Apply at weekly intervals as needed. Use higher rates under heavy disease pressure. Lower rates may be used for subsequent applications.
Zinnia	Powdery Mildew (<i>Erysiphe cichoracearum</i>)		
Woody Ornamentals such as: Arctostaphylos Azalea Cornus Gaultheria Kalmia Leucothoe Pieris Rhododendron Vaccinium	Cylindrocladium Root Rot, Wilt and Crown Canker (<i>Cylindrocladium scoparium</i>) (<i>Cylindrocladium theae</i>)	12 - 16 (2 - 2 $\frac{1}{2}$)	FOR PLANTS BEING PROPAGATED: The cutting soak plus soil drench application may be necessary to provide control, therefore treatment should consist of both methods of application. Pre-stick cutting soak: Soak cuttings for 10 minutes. Slight agitation of the mixture is required to maintain proper suspension. Workers handling treated plant material must wear protective gloves.
		6 - 8 (1 - 1 $\frac{1}{2}$)	Soil Drench: The higher rate should be used under heavier disease pressure. The initial drench treatment should be made 3 to 4 weeks following the pre-stick cutting soak. Apply additional drenches at 3 to 4 week intervals as needed. Normally 2 to 4 applications are sufficient. NOTE: Do not exceed 8 ozs./600 sq. ft. of bed or bench area as injury and/or inhibition of rooting may occur.
		6 - 12 (1 - 2)	FOR PLANTS WITH ESTABLISHED ROOT SYSTEMS: Soil Drench: Use higher rate under heavier disease pressure. Lower rates may be used in subsequent application. Apply additional drenches at 3 to 4 week intervals as needed. Normally 2 to 4 applications are sufficient. If reinfection occurs at a later date, retreatment may be necessary.
		6 - 12 (1 - 2)	CHEMIGATION: Use 6 - 8 ozs. (plants being propagated) or 6 - 12 oz. (established plants) in 100 gallons of water. Apply as heavy spray to plants using sufficient water volume to ensure adequate soil penetration for best results. Repeat applications every 3 - 4 weeks as needed. Normally 2 to 4 applications are sufficient. Refer to Use Directions for Chemigation. NOTE: Do not exceed 8 ozs./600 sq. ft. of area for plants being propagated as injury and/or rooting inhibition may occur.
Grape Myrtle	Powdery Mildew (<i>Erysiphe lagerstroemiae</i>)	4 - 8 ($\frac{1}{2}$ - 1 $\frac{1}{2}$)	FOLIAR SPRAY: Apply at weekly intervals as needed. Use higher rates under heavy disease pressure. Lower rates may be used for subsequent applications.
Flowering Crab Apple	Powdery Mildew (<i>Podosphaera spp.</i>) Scab (<i>Venturia inaequalis</i>)	4 - 8 ($\frac{1}{2}$ - 1 $\frac{1}{2}$)	FOLIAR SPRAY: Apply at weekly intervals as needed. For increased scab control, use 2 - 4 ozs./100 gals. tank mixed with a protectant fungicide.
Pittosporum	Alternaria Leaf Spot (<i>Alternaria spp.</i>)	4 - 8 ($\frac{1}{2}$ - 1 $\frac{1}{2}$)	FOLIAR SPRAY: Apply at weekly intervals as needed.
Rose	Powdery Mildew (<i>Sphaerotheca pannosa</i>)	4 - 16 ($\frac{1}{2}$ - 2 $\frac{1}{2}$)	FOLIAR SPRAY: Apply at 7 - 14 day intervals as needed. For initial applications to an existing infection, use 16 ozs./100 gals. alone or 8 ozs./100 gals. tank mixed with an eradicant fungicide. Use 4 - 8 ozs./100 gals. in a maintenance program for subsequent applications or under light disease pressure.

PLANT TOLERANCE:

3.

Neither the manufacturer nor the seller has determined whether or not TERRAGUARD 50W can be used safely on ornamental plants not specified on this label. Prior to any large scale application on such plants, the user should determine the safety of TERRAGUARD 50W fungicide by testing a small number of the type of plants to be treated at the recommended rates for that particular group, i.e., bedding plants, foliage, etc. Observe the treated plants for symptoms of phytotoxicity which may occur as foliage burn or, for plants being propagated, as an inhibition of rooting. This may take up to two months for species that do not root readily. The user assumes all risks arising out of application to unlabeled plants.

USE DIRECTIONS FOR CHEMIGATION: For control of *Cylindrocapsa* spp. on *Spathiphyllum* and woody ornamentals.

4.

In addition to the above use rates and recommendations, the following precautions must be observed when using this product in any type of irrigation system: Apply this product only through the following systems:

- 1) Overhead sprinklers such as impact or micro-sprinklers,
- 2) Micro-irrigation such as spaghetti-tube or individual tube irrigation,
- 3) Mist-type irrigation such as fog systems,
- 4) Hand-held calibrated irrigation equipment such as the hand-held wand with injector.

Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system, (including greenhouse systems), used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

POSTING

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive areas. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDE IN IRRIGATION WATER.

SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or

regularly serves an average of at least 25 individuals daily at least 60 days of the year.

Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water systems should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where the pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

IMPORTANT NOTICE

The directions and recommendations on this label are derived from research to ensure correct product usage. Insufficient control may result from extremes in weather conditions, or lack of following label instruction. The use of this product is beyond the control of Uniroyal and seller. Buyer is responsible for proper use as per directions and acceptance of product performance under extraordinary or unusual weather conditions.

Uniroyal is not responsible for losses or damage resulting from using TERRAGUARD in any manner not specifically recommended.

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.

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool, dry location.

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:

Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Paper: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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