

Front Panel

PM 21

1068

1023-10

ACCEPTED

OCT 30 1984

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
Amended, for the pesticide
registered under
EPA Reg. No. 1023-10

TUCO

Net Weight

ACTI-DIONE® RZ
Broad Spectrum Turf Fungicide

ACTIVE INGREDIENTS

Cycloheximide.....	1.3% w/w
(3-[2-(3,5-dimethyl-2-oxocyclohexyl)-2-hydroxy-ethyl]-glutarimide)	
Pentachloronitrobenzene.....	75.0% w/w
INERT INGREDIENTS.....	23.7% w/w
	100.0% w/w

For Use On:

Bluegrass, Bentgrass, Bermudagrass, Fescue, Ryegrass and St. Augustinegrass.

For the Prevention and Control of:

Brown Patch, Dollar Spot, Fading-Out, Grease Spot, Gray Leaf Spot, Leaf Spot, Melting-Out, Powdery Mildew, Rust.
Also for Azalea Petal Blight.

Keep Out of Reach of Children
WARNING-AVISO

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

MAY BE FATAL IF SWALLOWED
(See Side Panel for further Precautionary Statements)

USE BEFORE
LOT

EPA Reg. No. 1023-10

Packed for: TUCO-Division of The Upjohn Company
Kalamazoo, Michigan 49001, U.S.A.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS. WARNING. May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Do not breathe dust. May be irritating if contacted or inhaled. Avoid contact with skin, eyes or clothing.

STATEMENT OF PRACTICAL TREATMENT

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. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES OR ON SKIN: In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Do not apply directly to water or wetlands. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

GENERAL INFORMATION

Read all label directions, and warnings before using. Acti-dione RZ is a broad spectrum turf fungicide designed for prevention and control of the common fungus diseases on the major turfgrasses. For agricultural use and for sale to service persons only. Do not store in or around the house.

DIRECTIONS FOR USE

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

TURF

Apply Acti-dione RZ as a liquid spray with hand or power sprayers, or a hose-on proportioner. Add the recommended amount of Acti-dione RZ and water to spray tank. Keep agitator running to insure even suspension of the wettable powder.

Use spray mixture the same day it is prepared. Spray uniformly over the area to be treated. Apply after mowing. Allow spray to dry on the grass. Do not "water-in". Avoid mowing for 12 hours following application. For maximum safety, avoid spraying during periods of high temperatures. Do not contaminate feed and food-stuffs. Do not use on pasture grasses.

TURF-Recommended Applications

Golf Course Tees and Greens

Diseases	Turf Species	Acti-dione RZ (ounces/1000 ft ²)		Remarks
		Preventative	Curative	
Brown patch (<i>Rhizoctonia solani</i>), Dollar Spot (<i>Sclerotinia homeocarpa</i>), Fading-Out (<i>Helminthosporium</i> & <i>Curvularia</i> sp.), Gray Leaf Spot (<i>Puricularia grisea</i>), Leaf Spot (<i>Helminthosporium sirokinianum</i>), Melting-Out (<i>Helminthosporium vagans</i>).	Bentgrass, Bermudagrass, and St. Augustine grass.	1.2	1.6	<u>Preventative Treatment:</u> Apply Acti-dione RZ early in the spring before disease symptoms appear. Then follow a regular schedule at 7- to 14-day intervals throughout the season when conditions are favorable for disease development. Use 1.2 ounces of Acti-dione RZ in 5 to 7 gallons of water per 1000 ft ² of turf area. <u>Curative (Eradicative) Treatment:</u> When disease is already present or develops despite a preventative spray program, use 1.6 ounces of Acti-dione RZ in 5 to 7 gallons of water per 1000 ft ² . Repeat treatment at 3- to 5-day intervals until disease is controlled, then follow the preventative treatment schedule.

TURF-Recommended Applications (Cont.)

Golf Course Tees and Greens (Cont.)

Diseases	Turf Species	Acti-dione RZ (ounces/1000 ft ²)		Remarks
		Preventative	Curative	
Fading-Out, (<i>Helminthosporium</i> & <i>Curvularia</i> sp.), Grease Spot (<i>Pythium aphanidermatum</i> , <i>P. ultimum</i>) Leaf Spot (<i>Helminthosporium sirokinianum</i>), Melting-Out (<i>Helminthosporium vagans</i>), Powdery Mildew (<i>Erysiphe graminis</i>), Rust (<i>Puccinia coronata</i>).	Bluegrass, Fescue, and Ryegrass.	0.5	0.5	<u>Preventative Treatment:</u> Apply Acti-dione RZ early in the spring before disease symptoms appear. Then follow a regular schedule at 7- to 14-day intervals throughout the season. Use recommended rates of Acti-dione RZ in 2½ to 5 gallons of water per 1000 ft ² . <u>Eradicative Treatment:</u> When disease is already present or develops despite a preventative program, use ½ ounce Acti-dione RZ in 2½ to 5 gallons of water per 1000 ft ² . Repeat at 3- to 5-day intervals until the disease is controlled, then follow the preventative treatment schedule.

TURF-Recommended Applications (Cont.)

Golf Course Fairways and Other Large Turf Areas

Diseases	Turf Species	Acti-dione RZ (pounds/acre)		Remarks
		Preventative	Curative	
Brown patch (<i>Rhizoctonia solani</i>),	Bentgrass, Bermudagrass, St. Augustine-	1.5	---	Apply in sufficient water to obtain thorough coverage (30 to 50 gallons/acre). Begin application of Acti-dione RZ immediately following first mowing in the spring. Continue applications on a 14- to 21-day schedule. When severe disease conditions exist in the summer and fall, shorten the interval from 14- to 21-days to 7- to 10-days and continue this schedule for 2 to 3 applications, or until the disease is arrested, then return to the 14- to 21-day spray schedule and conclude with final application immediately following last mowing in late fall. For best results, do not make Acti-dione RZ applications to grass under stress during the heat of the day. Ferrous sulfate may be added to all applications at the rate of 1½ lbs/acre.
Dollar Spot (<i>Sclerotinia homeocarpa</i>),	grass, Bluegrass, Fescue, and Ryegrass			
Fading-Out (<i>Helminthosporium</i> & <i>Curvularia</i> sp.)				
Gray Leafspot ¹ (<i>Pyricularia grisea</i>),				
Grease Spot ² (<i>Pythium aphanider-</i> <i>matum</i> , <i>P. ultimum</i>),				
Leaf Spot (<i>Helminthosporium</i> <i>sirokinianum</i>),				
Melting-Out (<i>Helminthosporium</i> <i>vagans</i>),				
Powdery Mildew (<i>Erysiphe graminis</i>),				
Rust (<i>Puccinia coronata</i>).				

¹ Only on bentgrass, bermudagrass and St. Augustinegrass.

² Only on bluegrass, fescue and ryegrass.

TURF-Recommended Applications (Cont.)

Tank Mixtures for Golf Course Fairways-Recommended application on bentgrass, bermudagrass, bluegrass, fescue, St. Augustinegrass, and ryegrass.

Diseases	Acti-dione RZ®	Acti-dione TGF®	Remarks
Brown patch (<i>Rhizoctonia solani</i>),	10 to 24 ounces/acre	15 ounces/acre (0.34 ounces/1000 ft ²)	Apply in sufficient water to obtain thorough coverage (30 to 50 gallons/acre). Spring: Mix 24 ounces/acre of Acti-dione RZ with Acti-dione TGF. Apply immediately following first mowing. Summer: Fourteen days following first application, mix 10 to 12 ounces of Acti-dione RZ with Acti-dione TGF; continue applications on a 14- to 21-day schedule. Fall: Mix 24 ounces/acre of Acti-dione RZ with Acti-dione TGF. Apply immediately following last mowing in the fall.
Dollar Spot (<i>Sclerotinia homeocarpa</i>),	(0.25 to 0.5 ounces/1000 ft ²)		
Fading-Out (<i>Helminthosporium</i> & <i>Curvularia</i> sp.),			
Gray Leafspot ¹ (<i>Pyricularia grisea</i>),			
Grease Spot ² (<i>Pythium aphanidermatum</i> , <i>P. ultimum</i>),			
Leaf Spot (<i>Helminthosporium sirokinianum</i>),			
Melting-Out (<i>Helminthosporium vagans</i>).			

¹Only on bentgrass, bermudagrass, and St. Augustinegrass.

²Only on bluegrass, fescue and ryegrass.

Back Panel (Cont.)

AZALEA PETAL BLIGHT

Bloom Application: Use a fine mist and apply lightly and thoroughly to all buds and open flowers. The ground surface beneath bushes should also be sprayed until moist.

Ground Application: Apply uniformly as a spray, or as a dry mixture after blending with sand, sawdust or vermiculite. Use clean mulch, if it is replaced.

When To Apply	Use This Amount of Acti-dione RZ	Frequency
4 to 6 weeks before bloom (soil application only).	One (1) ounce (8 level teaspoons-ful) per square yard of the azalea bed.	Single spray or dry mix as specified.
Pre-blossom and Blossom (Begin applications as first blossoms start to open).	1 level teaspoonful per gallon; 12 ounces per 100 gallons.	Repeat at 4- to 5-day intervals or as new blossoms appear.

When new foliage appears, reduce the concentration to 3/4 of a level teaspoonful per gallon, or 9 ounces per 100 gallons and continue as above (Pre-Blossom and Blossom). Avoid spraying in interplanted species. Acti-dione RZ will damage young shoots of deciduous plants such as dogwood, mahonia and fern.

COMPATIBILITY

Acti-dione RZ may be applied with most common insecticides. Ferrous sulfate may be added to the spray mixture at the rate of 1/2 ounce per 1000 ft² of turf area. Do Not mix Acti-dione RZ with chlordane or alkaline materials such as lime. Adjuvants such as surfactants, wetting agents and extenders should not be added to the spray solution.

STORAGE AND DISPOSAL

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

STORAGE: Store in original container and keep closed. Store in a cool, dry place.

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: 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.

IMPORTANT-READ BEFORE USE

By using this product user accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond TUCO's control, it is impossible for TUCO to eliminate all risks associated with use of this product. As a result, crop injury or ineffectiveness is always possible.

WARRANTY AND DISCLAIMER OF WARRANTIES: TUCO warrants that this material conforms to the chemical description on the label and is reasonably fit for use under the directions and conditions on this label. TUCO AND SELLER MAKE NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS, MERCHANTABILITY OR OTHERWISE.

LIMITATIONS OF LIABILITY: The liability of TUCO or Seller for damages arising from the use of this product is limited to the replacement cost of the product used and shall not include any consequential damages such as loss of profits or other values.

NO CHANGES AUTHORIZED: No one (other than an authorized agent of TUCO) is authorized to make any other warranty, or change the above conditions, disclaimer of limitations and then only if in writing and with a specific reference to this label.