

TUCO

Net Weight 10 pounds
9-630-1

Acti-dione® RZ

Broad Spectrum Turf Fungicide

Active Ingredients

Cyclohexamide 13% w/w
(3-[2-(3,5-dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]-glutarimide) 75.0% w/w
Pentachloronitrobenzene 23.7% w/w
Inert Ingredients 100.00% w/w

For Use On:

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

For the Prevention and Control of:

Large Brown Patch, Melting-Out, Rust, Dollarspot, Fading-Out, Grease Spot, Powdery Mildew, Leafspot (*Helminthosporium*) and Gray Leafspot. Also for Azalea Petal Blight.

KEEP OUT OF REACH OF CHILDREN

WARNING

MAY BE FATAL IF SWALLOWED

(See Side Panel for further Precautionary Statements)

811 231 001

USE BEFORE
LOT

EPA Reg. No. 1023-10
EPA Est. No.

Packed for
TUCO • DIVISION OF THE UPJOHN COMPANY
KALAMAZOO, MICHIGAN 49001 U.S.A.

E229P
EDP 696717

ACCEPTED

AUG 25 1981

U.S. Environmental Protection Agency
Registration Division
Washington, D.C. 20460
EPA Reg. No.

**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 Particular 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 in treated areas may be killed. Keep out of any body of water. 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 waste.

Acti-dione RZ 10 pounds

GENERAL INFORMATION

Acti-dione RZ is a broad spectrum fungicide for use on turf. It is effective against many of the most common turf diseases, including Brown Patch, Melting-Out, Rust, Dollarspot, Fading-Out, Grease Spot, Leafspot, and Gray Leafspot.

DIRECTIONS FOR USE

Read and follow the label directions for use of this product in a manner consistent with the Federal Law.

TURF

Acti-dione RZ is applied with a hand or power sprayer in a useable amount of Acti-dione RZ and water to spray tank. Keep agitator running while spraying. Do not spray in the same day it is prepared. Apply after mowing. Allow spray to dry in the grass. Do not follow with application. For maximum safety, avoid spraying during hot, dry weather and drought stress. Do not use on pasture grasses.

Bentgrass, Bermudagrass and St. Augustinegrass

For Control of: Brown Patch, Melting-Out, Leafspot, Spot, Petal Blight, and Gray Leafspot.

Preventive Treatment

Apply Acti-dione RZ early in the spring before disease symptoms appear at 7 to 14 day intervals throughout the season when conditions are favorable for disease. Use 1 ounce Acti-dione RZ in 25 to 35 gallons of water per 1,000 sq. ft.

Curative (Eradicative) Treatment

When disease is already present or developing despite a preventive treatment, apply Acti-dione RZ in 25 to 35 gallons of water per 1,000 sq. ft. Repeat at 7 to 14 day intervals.

Bluegrass, Fescue and Ryegrass

For Control of: Rust, Powdery Mildew, Fading-Out, Melting-Out, Grease Spot, Petal Blight.

Preventive Treatment

Apply Acti-dione RZ early in the spring before disease symptoms appear at 7 to 14 day intervals throughout the season. Use 1 ounce Acti-dione RZ in 25 to 35 gallons of water per 1,000 sq. ft.

Eradicative Treatment

When disease is already present or developing despite a preventive treatment, apply Acti-dione RZ in 25 to 35 gallons of water per 1,000 sq. ft. Repeat at 7 to 14 day intervals throughout the season.

For Fairways and other large turf areas, a special program is available. Contact your local distributor for details of this program.

COMPATIBILITY: Acti-dione RZ may be applied with most commonly used turf fungicides. Do not mix Acti-dione RZ with herbicides or insecticides. Do not mix Acti-dione RZ with lime or other materials such as lime. Acti-dione RZ should not be added to the spray solution.

AZALEA PETAL BLIGHT

Bloom Application: Use a fine mist and apply lightly and thoroughly to the ground surface beneath the plant. Do not spray onto the plant.

Ground Application: Apply in form of a spray or as a dry material. Do not use a fan or blower to apply.

When to Apply

Use this Amount of Acti-dione RZ

1. In the spring, before disease symptoms appear, use 1 ounce Acti-dione RZ in 25 to 35 gallons of water per 1,000 sq. ft. Repeat at 7 to 14 day intervals throughout the season.

2. When disease is already present or developing despite a preventive treatment, use 1 ounce Acti-dione RZ in 25 to 35 gallons of water per 1,000 sq. ft. Repeat at 7 to 14 day intervals throughout the season.

3. For Fairways and other large turf areas, a special program is available. Contact your local distributor for details of this program.

4. For Azalea Petal Blight, use 1 ounce Acti-dione RZ in 25 to 35 gallons of water per 1,000 sq. ft. Repeat at 7 to 14 day intervals throughout the season.

5. When new foliage appears, reduce the amount of Acti-dione RZ to 1/2 ounce per 1,000 sq. ft. and continue as above.

6. Acti-dione RZ may be applied in the form of a spray or as a dry material. Do not use a fan or blower to apply.

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ACCEPTED

AUG 25 1981

Under the Federal Insecticide Fungicide and Rodenticide Act as amended in the pesticide registered under EPA Reg. No. 100-100-1

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 the 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 on if irritation persists.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Keep out of any body of water. 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 waste.

Acti-dione RZ 10 pound

TUCO

GENERAL INFORMATION

Acti-dione RZ is a fungicide used for controlling Acti-dione RZ is a broad spectrum fungicide for control of the prevalent and destructive fungal diseases of turfgrasses. For application and for sale to serve persons in the turf industry.

DIRECTIONS FOR USE

Read and follow all Federal law to use this product in a manner consistent with its labeling.

TURF

Apply as a spray with the TUCO sprayer or a hose in proportion. Add the recommended amount of Acti-dione RZ and water to spray tank. Keep agitator running to insure even suspension. Mix the water and water. Use spray mixture the same day it is prepared. Spray uniformly over the area to be treated. Apply after morning dew spray to dry on the grass. Do not water in. Apply in morning 12 hours before application. For maximum safety, avoid spraying during periods of high temperatures. Do not contaminate feed and foodstuffs. Do not use on pasture grasses.

Bentgrass, Bermudagrass and St. Augustinegrass

For Control of: Brown Spot, Brown Patch, Mowing Out, Leaf Spot, Hairy Root, Fusarium, Fading Out, Grease Spot, Pythium and Gray Leaf Spot.

Preventive Treatment

Apply Acti-dione RZ early in the spring before disease symptoms appear. Then follow a regular schedule at 7 to 14 day intervals through the season when conditions are favorable for disease development. Use 8 ounces of Acti-dione RZ in 25 to 35 gallons of water per 5,000 sq. ft. of turf area.

Curative (Eradicative) Treatment

When disease is already present or develops despite a preventive spray program, use 8 ounces of Acti-dione RZ in 25 to 35 gallons of water per 5,000 sq. ft. Repeat treatment at 7 to 14 day intervals until disease is controlled. Then follow the preventive treatment schedule.

Bluegrass, Fescue and Ryegrass

For Control of: Rust, Powdery Mildew, Fading Out, Mowing Out, Leaf Spot, Hairy Root, Fusarium, and Grease Spot, Pythium.

Preventive Treatment

Apply Acti-dione RZ early in the spring before disease symptoms appear. Then follow a regular schedule at 7 to 14 day intervals through the season. Use 8 ounces of Acti-dione RZ in 25 to 35 gallons of water per 5,000 sq. ft. of turf area.

Eradicative Treatment

When disease is already present or develops despite a preventive spray program, use 8 ounces of Acti-dione RZ in 25 to 35 gallons of water per 5,000 sq. ft. Repeat at 7 to 14 day intervals until the disease is controlled. Then follow the preventive treatment schedule.

For Fairway and other large turf areas, a special program is recommended. Ask your supplier for the special program and follow the details of this program.

COMPATIBILITY: Acti-dione RZ may be applied with most common insecticides. Fertilizers may be added. The spray mixture at the rate of 8 ounces per 5,000 sq. ft. of turf area. Do not mix Acti-dione RZ with oil emulsions or other materials such as lime. Adjuvants such as surfactants, wetting agents and extenders should be added to the spray solution.

AZALEA PETAL BLIGHT

Bloom Application: Use Acti-dione RZ and apply lightly and thoroughly to all buds and open flowers. The ground surface beneath the trees should also be sprayed uniformly.

Ground Application: Apply Acti-dione RZ as a spray or as a dry mixture after plowing with sand, sawdust or vermiculite. Use clean mulch if this is required.

When to Apply

Use this Amount of Acti-dione RZ

Frequency

4 to 6 weeks before bloom.	One 8 ounce 8.5 level teaspoon	once per 5,000 sq. ft. of area.
Soil application only.	four per square yard of the azalea bed.	as described.
Pre-bloom spray blossom.	1 level teaspoon per 100 gallons.	Repeat at 4 to 6 day intervals.
Begin application as first blossoms start to open.	12 ounces per 100 gallons.	or as new blossoms appear.

When new foliage appears, spray the foliage with the same level teaspoon per 100 gallons of water. Repeat at 4 to 6 day intervals. Apply 12 ounces per 100 gallons of water. Acti-dione RZ is a fungicide used for controlling Acti-dione RZ is a broad spectrum fungicide for control of the prevalent and destructive fungal diseases of turfgrasses. For application and for sale to serve persons in the turf industry.

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 spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL: Dispose of bags according to approved Federal, State and local procedures under the Resource Conservation and Recovery Act. Do not reuse container.

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, disclaimer or limitations and their only if in writing and with a specific reference to this label.

W

[illegible]

KEEP OUT OF REACH OF CHILDREN

HARMFUL OR FATAL IF SWALLOWED

STORE IN A COOL DRY PLACE

2. *Chlorophyll a* and *Chlorophyll b* contents were determined using a spectrophotometer (Shimadzu UV-1601) at 663 nm and 646 nm, respectively. The concentrations were calculated using the following equations:

STORAGE - The information is stored in the file.

PESTICIDE DISPOSAL Pesticide disposal is a critical issue for the agricultural community. The National Pesticide Management Council (NPMP) has developed a comprehensive guide to help farmers and growers understand the proper disposal of pesticides. This guide covers the following topics:

CONTAINER DISPOSAL Containers must be disposed of according to approved Federal, State and local procedures under the Resource Conservation and Recovery Act (RCRA) and must be properly labeled.

IMMUNIZANT—READ BEFORE USE

[illegible]

Warranty and Disclaimer of Warranties

TUCO AND SELLER MAKE NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS MERCHANTABILITY OR OTHERWISE

Limitations of Liability

No Changes Authorized

81-55-1

TUOS

Read and label the following products and warming instructions. All of the following products are for use in the microwave. Do not store in the microwave. Do not use in the microwave.

This is a violation of Federal law that prohibits the adulteration of food. The labeling is:

[illegible]

For Dollarspot Fading-Out Leafspot (Helminthosporium) Gray Leafspot Large Brown Patch Melting-Out Pink Patch Powdery Mildew, and Rust

Preventive Treatment: Apply Aftersun to exposed skin after sunbathing or swimming. Reapply frequently throughout the day.

Curative (Eradicative) Treatment: At the first sign of disease, all 4 groups A and B received 100 mg of ivermectin (1000 µg/kg) ¹. Repeat treatments were scheduled 14 days later and 14 days after the last treatment.

Spray Application: Apply A to the target immediately before the expected permanent flow of water. Do not use less than 5 gal. of water per acre. Do not use less than 50 lb. of product per acre. Do not use less than 100 gal. of water per acre.

Dry Application Samples were prepared by the dry application of the polymer to the substrate. Figure A1-1. The film may be applied with the use of a brush, roller, or spray gun. The film is applied to the substrate in a uniform layer. The film is applied to the substrate in a uniform layer. The film is applied to the substrate in a uniform layer.

A *Journal of Theoretical Biology* devoted to the publication of original research papers, reviews, and theoretical analyses of biological phenomena. The journal is published by the American Society of Theoretical Biology, and is available online at www.jtbi.org.

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