

400-416

2/8/2001

JACKET
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 8 2001

Willard F. Cummings
Uniroyal Chemical Company, Inc.
74 Amity Road
Bethany, CT 06524-3402

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Terrazole 35% Wettable Powder
EPA Reg. No. 400-416
Your Submission Dated November 30, 2000

Dear Mr. Cummings:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments below.

There has been a recent change in the Worker Protection Standard (WPS) labeling regarding the use of the term "Waterproof Gloves". Under Personal Protective Equipment, add "Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart." Change "waterproof gloves" to "chemical-resistant gloves made of any waterproof material" in the PPE statement and in the Agricultural Use Requirements Box.

Under Precautionary Statements, Delete the second sentence "Do not take internally."

A stamped copy of the labeling is enclosed for your records. Please submit one (1) copy of your final printed labeling before you release the product for shipment.

If you have any questions, then please contact Summer Gardner-Jenkins of my staff at (703) 308-9353.

Sincerely,

A handwritten signature in cursive script that reads "Mary L. Waller".

Mary L. Waller
Product Manager, Team 21
Fungicide Branch
Registration Division (7505C)

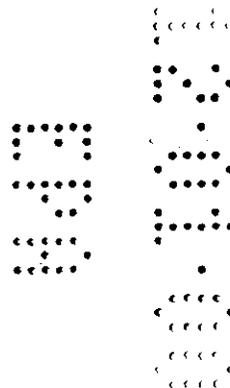
Enclosure

Terrazole®

35% WETTABLE POWDER
TURF & ORNAMENTAL FUNGICIDE

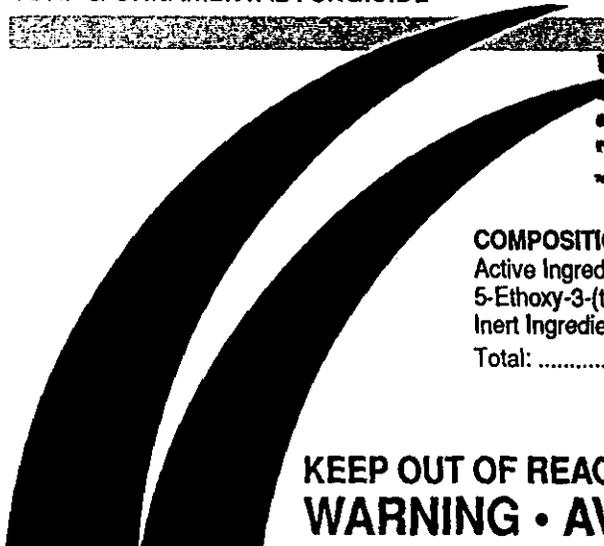
ACCEPTED
with COMMENTS
In EPA Letter Dated
FEB - 8 2001

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
400-416



COMPOSITION

Active Ingredients: (% by weight)	
5-Ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole	35%
Inert Ingredients:	65%
Total:	100%



KEEP OUT OF REACH OF CHILDREN WARNING • AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Net contents:

FIRST AID

- | | |
|----------------------------------|--|
| IF SWALLOWED | <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
| IF IN EYES | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| IF ON SKIN OR ON CLOTHING | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice. |
| IF INHALED | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice. |

EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

UNIROYAL CHEMICAL EMERGENCY PHONE	203-723-3670
SAFETY DATA AND INFORMATION	203-573-3303
TRANSPORTATION EMERGENCY (CHEMTREC)	800-424-9300

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

Harmful if swallowed. Do not take internally. Do not inhale spray mist. Causes eye irritation. Do not get on skin or in eyes. May cause skin irritation. Wash thoroughly all exposed skin. Repeated contact may be harmful.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other Handlers Must Wear: A long-sleeved shirt & long pants; waterproof gloves; shoes plus socks; protective eyewear; dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C) or a NIOSH approved respirator with any N, R, P or HE filter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this

**UNIROYAL
CHEMICAL**

Uniroyal Chemical
Company, Inc.
Middlebury, CT 06749
EPA REG. NO. 400-416
EPA EST. NO.
010

product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

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 to turf 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 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 12 hours.

Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- waterproof gloves
- shoes and socks.
- protective eyewear

GENERAL INFORMATION

TERRAZOLE 35WP soil fungicide is effective for prevention and control of damping-off, root rot and stem diseases caused by *Pythium* and *Phytophthora* species in golf course turf, ornamentals and nursery crops.

MIXING INSTRUCTIONS

Fill the mixing tank with half the required amount of water. Then add TERRAZOLE 35WP with agitation running to insure proper mixing and suspension of product. Fill the tank with the remaining amount of required water.

The mixture of TERRAZOLE 35WP and water should be continuously agitated to assure uniform application.

COMPATIBILITY: For broad spectrum disease control, this product can be tank mixed with TERRACLOR® 75% WP (EPA Reg. No. 400-399) or TERRACLOR® 400 (EPA Reg. No. 400-454) for use on ornamentals in accordance with the more restrictive label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed

with any product containing a label prohibition against such mixing. Do not mix with other chemicals unless prior use has proven compatibility.

GOLF COURSE TURF - TEES AND GREENS

TERRAZOLE 35WP is effective for the control of *Pythium* blight, cottony blight, grease spot, spot blight, root rot, crown rot and damping-off disease caused by *Pythium* spp.

Application is limited to tees and greens. Application to fairways is prohibited.

Do not allow animals to graze on treated areas and do not feed clippings from treated areas to animals.

APPLICATION NOTES

TERRAZOLE 35WP can be applied as a spray to both newly seeded and established turf.

Within the rate range given, use the lower rate for the shortest interval listed and the higher rate for the longest interval.

Under severe conditions, use the highest rate and shortest interval specified.

USE AND RATE RECOMMENDATIONS

Mix 2 to 4 ozs. in 2 to 5 gallons of water and apply to 1000 sq. ft. Begin applications at first sign of disease and retreat at 10 to 14 day intervals as needed.

Do not exceed 10 ozs. per 1000 sq. ft. per year.

The interval between applications may not be less than 10 days.

ORNAMENTALS

TERRAZOLE 35WP controls water mold, damping off, root rot, stem rot and crown rot diseases caused by *Pythium* spp. and *Phytophthora* spp. TERRAZOLE 35WP is mixed with water and applied as a soil drench at the time of seeding or transplanting in nurseries, greenhouses and interiorscapes.

APPLICATION NOTES

Apply the recommended rate of TERRAZOLE 35WP according to the guidelines below. The drench solution should be continually agitated to assure uniform application of the fungicide material. To improve penetration of the fungicide, the drenching must be followed with an additional quantity of water equal to at least half the volume of the fungicidal drench, applied either by sprinkling or irrigation.

For Bed and Bench Grown Plants:

Soil Depth (inches)	Coverage for TERRAZOLE 35WP Drench Mix	
	Sq.ft./100 gals.	Fl.oz./Sq.ft.
3 or less	800	16
4	600	21
5	480	27
6	400	32
7	340	37
8	300	43
9	270	48
10	240	53
12 or more	200	64

For Container Grown Plants:

Pot Diameter (inches)	Minimum Drench Volume fl.oz./pot
4	2
5	3
6	4
8	10
10	20
12	30

USE AND RATE RECOMMENDATIONS

CROP	OUNCES TERRAZOLE 35WP PER 100 GALS. (TSP./GAL)	REMARKS
Bedding plants Flowering plants Foliage plants Woody ornamentals	3.5 - 10 (½ - 1½)	Retreat at 4 to 12 week intervals as necessary. Use higher rates for peat and other high organic potting media.

PLANT TOLERANCE: The list below contains those ornamental plants on which TERRAZOLE 35WP has been found to be safe when the product is used according to label directions.

Bedding Plants

Ageratum	Carnation	Impatiens	Salvia
Alyssum	Celosia	Marigold	Snapdragon
Aster	Coleus	Pansy	Verbena
Balsam	Dahlia	Petunia	Vinca
Begonia	Dianthus	Phlox	Zinnia
Calendula	Dusty Miller	Portulaca.	

Flowering Plants

African	Coral Bells	Geranium	Poinsettia
Violet	Cyclamen	Gerbera	Primrose
Begonia	Dahlia	Gloxinia	Statice
Calceolaria	Daisy, Shasta	Gypsophila	Stokesia
Carnation	Delphinium	Kalanchoe	
Chrysanthemum	Foxglove	Lillies	
Columbine	Gaillardia	Orchids	

Foliage Plants

Aglanema	Caladium	Hedera	Pothos
Ajuga	Dieffenbachia	Palm, Areca	Sansevieria
Anthurium	Dracena	Peperomia	Schefflera
Artemesia	Echeveria	Philodendron	Schlumbergera
Begonia	Ficus	Pilea	Syngonium

Woody Ornamentals

Araucaria	Daphne	Juniper	Pittosporum
Arborvitae	Dogwood	Laurel	Podocarpus
Arctostaphylus	Euonymus	Leucothoe	Privet
Aucuba	Fir	Ligustrum	Rhamnus
Azalea	Heather	Magnolia	Rhododendron
Camellia	Hedera	Maple	Yew
Carissa	Hemlock	Pieris	
Ceanothus	Holly	Pine	

Neither the manufacturer nor the seller has determined whether or not TERRAZOLE 35WP 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 TERRAZOLE 35WP 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. The user assumes all risks arising out of application to unlabeled plants.

USE DIRECTIONS FOR CHEMIGATION:

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) Pressurized drench (flood) or drip (trickle) systems,
- 2) Micro-irrigation such as spaghetti-tube or individual-tube irrigation,
- 3) Hand-held calibrated irrigation equipment such as the hand-held wand with injector,
- 4) Ebb and flow systems.

Do not apply this product through any other type of irrigation system. The Terrazole mixture should be continually agitated to assure uniform application of the fungicide material. To improve penetration of the fungicide, the drenching must be followed with an additional quantity of water equal to at least half the volume of the fungicidal drench, applied either by sprinkling or irrigation.

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.

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.

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Paper Bags: Completely empty 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.

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

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.

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