

400-575

12/23/2009

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**WASHINGTON, D.C. 20460**

**OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES**

Mr. Michael Dupre  
Manager, North America Registrations  
Chemtura Corporation  
199 Benson RD  
Middlebury, CT 06749

DEC 23 2009

Dear Mr. Dupre:

**SUBJECT:** Terrazole L/CA Ornamental Fungicide  
EPA Registration Number 400-575  
OPPIN Decision Number D432574  
Your Submission of September 2, 2009

The amendment referred to above, submitted in connection with registration under section (3) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) is acceptable provided that you make the following changes:

**Page 3 – Directions for Use**

Immediately under the "Application Notes" heading, add a new section with the sub-heading "Drench Solution:" with the text: "Prepare drench solution by mixing 3 to 4 fluid ounces Terrazole L/CA into 100 gallons of water, or equivalently, mix 1/5 to 1/4 teaspoons into 1 gallon of water."

**Page 3 – Directions for Use – General Information:**

Change the sentence "Terrazole L/CA soil fungicide is effective for prevention and control of damping-off, root rot and stem diseases caused by Pythium and Phytophthora species in containerized ornamentals." to: "Terrazole L/CA soil fungicide is effective for prevention and control of damping-off, root rot and stem diseases caused by Pythium and Phytophthora species in drench solution to containerized ornamentals."

**Page 3 – Directions for Use – Application Notes:**

Change the first two sentences to read: "Apply the specified rate of Terrazole L/CA to containerized ornamentals in a drench solution as directed in the tables below. The maximum application rate is 4 fluid ounces of Terrazole L/CA per 400 sq. ft."

**Page 3 – Directions for Use – Use and Rate Application Table:**

Change the heading "Fluid ounces Terrazole L/C per 100 gals. (tsp/gal)" to "Drench Solution: Fluid ounces Terrazole L/CA per 100 gals. (tsp/gal Terrazole L/CA per gallon). Add the following to the text in the "Remarks" column: "Apply 100 gallons of drench spray to 400 square feet of bed or bench area (or 1 gallon to 4 square feet)."

Note that the specified rate of 4 fl oz Terrazole L/CA per 400 square feet of bed or bench area is equivalent to the rate of 0.125 lbs etridiazole per 400 square feet presented on page 79 of the September 2000 Terrazole RED.

**Page 4 – Directions for Use – Restrictions:**

Change the sentence "Only the handler must be present in the greenhouse during application." to "Only the handler may be present in the greenhouse during application."

For future label submissions, please number each page and use font size 10 points or larger.

A stamped copy of the label is enclosed for your records. If you have any questions, please contact Lisa Jones of my team by phone at (703) 308-9424 or [jones.lisa@epa.gov](mailto:jones.lisa@epa.gov).

Sincerely,

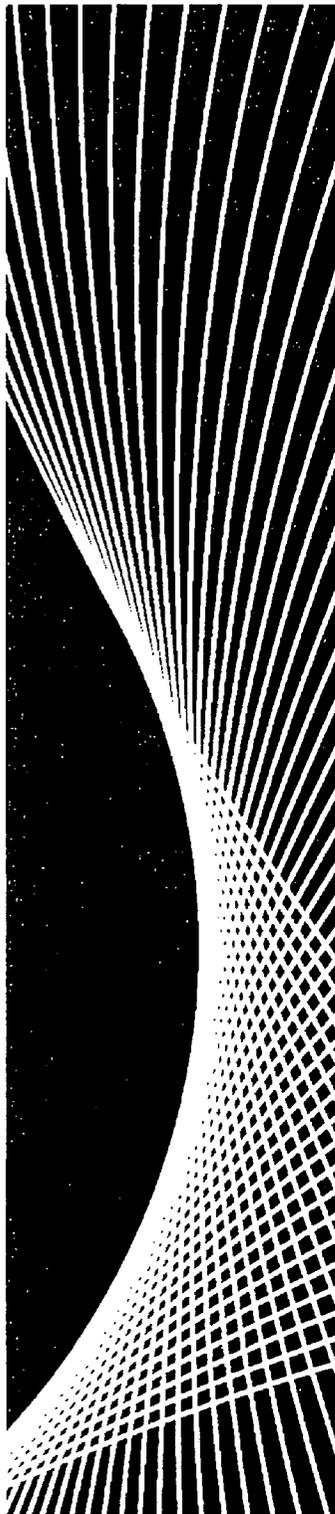


Mary L. Waller  
Product Manager (21)  
Fungicide Branch  
Registration Division (7505P)

Enclosure: Stamped label

# Terrazole® L/CA

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## Ornamental Fungicide

Net  
Contents:

Active Ingredient: (% by weight)  
Etridiazole [5-Ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole]\* ..... 44.3%  
Other Ingredients:\*\* ..... 55.7%  
Total:..... 100.0%  
\*Contains 4 lbs. of 5-Ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole per U.S. Gallon at 20°C.  
\*\*Contains Petroleum Distillates

**KEEP OUT OF REACH OF CHILDREN  
DANGER • PELIGRO**

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.)

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
DEC 23 2009**

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

**400-575**

EPA REG. NO. 400-575  
EPA EST. NO.  
001/081309

Manufactured for:  
Chemtura Corporation  
199 Benson Road  
Middlebury, CT 06749



www.chemtura.com

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FIRST AID	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR ON CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
EMERGENCY ASSISTANCE	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage. Contains petroleum distillate - vomiting may cause aspiration pneumonia.	
<b>EMERGENCY PHONE</b>	<b>800-292-5898</b>
<b>SAFETY DATA AND INFORMATION</b>	<b>866-430-2775</b>
<b>TRANSPORTATION EMERGENCY (CHEMTREC)</b>	<b>800-424-9300</b>

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER	
Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if swallowed. Harmful if absorbed through the skin. Do not get in eyes or on clothing. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.	
<b>PERSONAL PROTECTIVE EQUIPMENT (PPE)</b>	
Some materials that are chemical-resistant to this product are made of barrier laminate or Viton. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.	
<b>Mixers, loaders and applicators participating in high-pressure handwand sprayer applications must wear:</b> Coveralls over long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate or viton; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead applications; NIOSH approved respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an OV cartridge or canister with an N, R, P or HE prefilter, chemical-resistant apron when mixing, loading or cleaning equipment.	
<b>All other mixer, loaders, applicators and other handlers must wear:</b> Long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate or viton; shoes plus socks; NIOSH approved respirator (except for applicators applying in-furrow to cotton) with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an OV cartridge or canister with and N, R, P or HE prefilter, chemical-resistant apron when mixing, loading or cleaning equipment.	
Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this 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.	
When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.	
USER SAFETY RECOMMENDATIONS	
Users should:	
<ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.</li> </ul>	
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 cleaning equipment or disposing of equipment washwaters.	
<b>Surface Water Advisory:</b> Etridiazole can contaminate surface water through spray drift. Under some conditions, etridiazole may have a high potential for runoff into surface water for several weeks postapplication. These conditions include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas; areas overlaying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain surface water.	
PHYSICAL OR CHEMICAL HAZARDS	
Combustible: 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.

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. Do not allow this product to drift. 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 12 hours.

**INDOOR RESTRICTIONS:** Entry (including early entry that would otherwise be permitted under the WPS) into greenhouses, potting sheds, and other indoor areas by any person other than a correctly trained applicator who is performing a handling task permitted by the WPS and who is wearing the required handler PPE including a respirator - is PROHIBITED in the entire enclosed structure/building from the start of application until application is complete and one of the following ventilation criteria (providing outside air) is met: (1) 10 air exchanges; (2) 2 hours of fans or other mechanical ventilation providing outside air; (3) 4 hours of vents, windows, or other passive ventilation; (4) 11 hours with no ventilation followed by 1 hour of mechanical ventilation; (5) 11 hours of no ventilation followed by 2 hours of passive ventilation; or (6) 24 hours with no ventilation. After ventilation criteria are met and until the REI expires, do not enter or allow worker entry into treated areas, except as provided in the WPS. Note: after the expiration of the REI whenever Terrazole-treated soil or planting media is being handled or disturbed indoors, continuous ventilation of the area is required at a minimum rate of one complete air exchange per hour.

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 viton or made out of any waterproof material
- shoes plus socks
- protective eyewear

**GENERAL INFORMATION**

TERRAZOLE L/CA soil fungicide is effective for prevention and control of damping-off, root rot and stem diseases caused by *Pythium* and *Phytophthora* species in containerized ornamentals only.

**ORNAMENTALS**

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

**APPLICATION NOTES**

**SOIL DRENCHES:** Apply the specified rate of TERRAZOLE L/CA according to the guidelines below. The maximum application is 4 fl. oz. per 400 sq. ft. Continually agitate the drench solution 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 Container Grown Plants:**

Pot Diameter (inches)	Maximum Drench Volume fl.oz./pot
4	2
5	3
6	4

**USE AND RATE APPLICATION**

**For Bedding and Bench Plantings:**

CROP	FLUID OUNCES TERRAZOLE L/CA PER 100 GALS. (tsp./gal.)	REMARKS
Bedding plants Flowering plants Foliage plants Woody ornamentals	3 - 4, (1/5 - 1/4) per 400 sq.ft. of bed or bench area	A total of 2 applications may be applied as necessary. The second application may be made 30 days after the first application.

**PLANT TOLERANCE**

The list below contains those ornamental plants on which TERRAZOLE L/CA 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	Verlana
Balsam	Dahlia	Petunia	Vinca
Begonia	Dianthus	Phlox	Zinnia
Calendula	Dusty Miller	Portulaca	

**Flowering Plants**

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

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**Foliage Plants**

Aglaonema	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 L/CA 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 L/CA fungicide by testing a small number of the type of plants to be treated at the labeled rates for that particular group, i.e., bedding plants, foliage, etc.

**RESTRICTIONS**

Application shall only be made to plants where the presence of metalaxyl or mefenoxam resistant Pythium or Phytophthora has been confirmed. This information must be documented on a written recommendation by a licensed Pest Control Advisor.

Only the handler must be present in the greenhouse during application.

The handler must not work more than 15 hours in a 30-day period. The employer must retain the record of hours worked by handler.

For use in commercial greenhouses and nurseries only. Use in residential greenhouses or other indoor plant sites is prohibited.

For use with pulse spray application equipment.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **PESTICIDE STORAGE:** Store the product in a cool, dry and secure place. Protect from temperatures below 20°F. Do not store near heat sources or open flame.

**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:** Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact Ag Container Recycling Council (ACRC) at 1-877-952-2272 (toll free) or [www.acrecycle.org](http://www.acrecycle.org). Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**If pressure rinsing:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. 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.

**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, expressed 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 to the extent consistent with applicable law, the buyer assumes the risk of any such use.

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