



MATERIAL SAFETY DATA SHEET

TERRAZOLE® CA

Version: 1.5
Date of Issue: 12/05/2006
Date printed: 12/30/2006

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TERRAZOLE® CA

Chemical name: Etridiazole

Use of substance/preparation: Fungicide

Supplier: Chemtura USA Corporation
Chemtura Corporation (Worldwide HQ)
199 Benson Road
Middlebury, CT 06749 USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
Chemtura Corporation Emergency Response (24 hours) 800-292-5898
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Environmental, Health and Safety Department: 866-430-2775

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>% BY WEIGHT</u>
Etridiazole CAS# 2593-15-9	35
Anionic/Nonionic surfactant blend CAS# -	< 5
Crystalline Silica (Cristobalite) CAS# 14464-46-1	< 2

Ingredients not precisely identified are non-hazardous and/or proprietary.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!

**MAY BE HARMFUL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.
MAY CAUSE MODERATE IRRITATION TO EYES.
MAY CAUSE SKIN IRRITATION.
PROLONGED AND/OR REPEATED EXPOSURE MAY CAUSE THE FOLLOWING EFFECTS:
MAY CAUSE LIVER DAMAGE.
CONTAINS A COMPONENT WHICH IS A POSSIBLE CANCER HAZARD BASED ON ANIMAL DATA.**



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4. FIRST AID MEASURES

Swallowing

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.

Inhalation

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.

Skin contact

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.

Eye contact

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

5. FIRE-FIGHTING MEASURES

Flash point: > 230 °F > 110 °C
Autoignition temperature: 355 °C

NFPA CLASSIFICATION

Health: 2	Flammability: 3	Reactivity: 0	Special provisions: Dust explosion hazard
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Hazardous combustion products

Irritating fumes.
Oxides of carbon.
Oxides of nitrogen.

Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus.

Extinguishing media

Suitable:
Large fires:
- alcohol-type foam or universal-type foams
Small fires:
- CO2
- dry chemical
- water spray

Unsuitable: - water jets

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Evacuate unnecessary personnel., Avoid all contact with material., Wear suitable protective equipment.

Environmental precautions

Prevent from entering sewer system, surface water or soil.

Methods for cleaning up

Avoid dust formation.
Sweep up and dispose of as instructed



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7. HANDLING AND STORAGE

HANDLING

Handling precautions

Wear recommended personal protection equipment., Warn personnel about the dangers of the product., Keep container tightly closed., Avoid dispersion of dust to reduce fire and explosion potential.

Other precautions

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

STORAGE

Storage requirements

Store in a cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Particulates not otherwise regulated	TWA, OSHA	15.0 mg/m ³	Total dust
	TWA, OSHA	5.0 mg/m ³	Respirable fraction
	TWA - ACGIH	10.0 mg/m ³	Total inhalable dust
	TWA - ACGIH	3.0 mg/m ³	Respirable fraction

PERSONAL PROTECTION

Respiratory protection

In the absence of engineering controls sufficient to maintain airborne concentrations below recommended occupational exposure limit values, appropriate respiratory protection should be utilized., The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation., Use an approved full-face air-purifying respirator. For emergency and other conditions where the exposure limit may be greatly exceeded, use an approved positive-pressure self-contained breathing apparatus., The respirator manufacturer should be consulted to ensure that the air-purifying cartridges utilized will provide adequate protection for the exposure conditions and period of wear concerned.

Hand protection / protective gloves

Chemical resistant protective gloves

Eye protection

Full face shield.

Skin protection

Chemical resistant protective clothing.

Industrial hygiene measures

Before eating, drinking or smoking, wash hands and face thoroughly with soap and water.

ENGINEERING CONTROLS

Ventilation

Provide local exhaust or process enclosure ventilation system.



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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state Powder
Color Clear/grey
Odor Pungent
Odor threshold Not available

OTHER PROPERTIES

Boiling point Not available
Melting point Not available
pH 8.0
Bulk density 0.3 kg/m3
Vapor pressure 1.43 Pa at 25 °C
Solubility in water Dispersible
Solubility in organic solvents Soluble
Partitioning coefficient log POW: 3.37
Flash point > 230 °F
> 110 °C
Autoignition temperature 355 °C
Molecular weight 247.5
Solids concentration 100 %

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal storage and handling conditions.

Incompatible materials:

Oxidizing agents.

Hazardous combustion products:

Irritating fumes.
Oxides of carbon.
Oxides of nitrogen.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results

Acute toxicity: LD50 Rat
Result: 3,300 mg/kg

SKIN ABSORPTION



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Test results
Acute toxicity: LD50 - Rabbit
Result: > 2,000 mg/kg

INHALATION
Test results
Acute toxicity: LC50 - Rat
Result: > 2.8 mg/l
Exposure time: 4 h

SKIN CONTACT
Test results
Skin irritation: Species: Rabbit
Result: Non irritating.

EYE CONTACT
Test results
Eye irritation: Species: Rabbit
Result: Moderate

SENSITIZATION
Test results: Species: - Guinea pigs
Result: Negative

12. ECOLOGICAL INFORMATION

Biodegradation: Remark: Not readily biodegradable.

<u>Component ecotoxicology</u> Etridiazole <u>Acute toxicity fish:</u>	LC50 - Rainbow trout (<i>Oncorhynchus mykiss</i>) Result: 2.4 mg/l Exposure time: 96 h
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<u>Component ecotoxicology</u> Etridiazole <u>Acute toxicity fish:</u>	LC50 - Bluegill (<i>Lepomis macrochirus</i>) Result: 3.27 mg/l Exposure time: 216 h
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<u>Component ecotoxicology</u> Etridiazole <u>Acute toxicity fish:</u>	LC50 - Sheepshead minnow (<i>Cyprinodon variegatus</i>) Result: 4.0 mg/l Exposure time: 96 h
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<u>Component ecotoxicology</u> Etridiazole <u>Aquatic toxicity to plants:</u>	EC50 - Algae Result: 0.072 mg/l Exposure time: 120 h
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<u>Component ecotoxicology</u> Etridiazole <u>Acute toxicity to aquatic invertebrates:</u>	EC50 - Water flea (<i>Daphnia magna</i>) Result: 3.1 mg/l Exposure time: 48 h
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13. DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.



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14. TRANSPORT INFORMATION

DOT Classification

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Etridiazole)
 Class: 9
 UN ID #: UN3077
 Packing group: III

Not regulated by ground or rail if shipped or transported in container less than 400kg.

IMDG Classification

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
 Class: 9
 Subsidiary risk: marine pollutant
 UN ID #: UN 3077
 Packing group: III
 Technical description (Etridiazole)

ICAO Classification

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
 Class: 9
 UN ID #: UN 3077
 Packing group: III
 Technical description (Etridiazole)

Only regulated by air Into, Out of or Within the United States in containers 881.8 lbs (400 kg) or greater.

15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4. Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
Etridiazole	2593-15-9	
Anionic/Nonionic surfactant blend	-	
Crystalline Silica (Cristobalite)	14464-46-1	

EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard, Delayed Health Hazard

California Proposition 65

Contains 5-ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole

EPA



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16. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS: NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

FURTHER INFORMATION

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

HMIS RATING

Health: 2	Flammability: 3 (DUST)	Reactivity: 0	PPI: X
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STP	Standard temperature and pressure
W/W	0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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