

# TERRAMASTER® 4EC

Version:	
Date of Issue:	

Date printed:

06/26/2007

1.6

1. PRODUCT AND COMPANY IDENTIFICATION **Product name : TERRAMASTER® 4EC Chemical name:** Etridiazole Use of substance/preparation: Fungicide Supplier: Chemtura Corporation 199 Benson Road Middlebury, CT 06749 USA CHEMTREC (24 hours) 800-424-9300 **Emergency telephone** number: Chemtura Corporation Emergency Response (24 hours) 800-292-5898 866-430-2775 Environmental, Health and **Safety Department:** Prepared by Product Safety Department Date of Issue: 06/26/2007 (US) +1 866-430-2775 (EU) +44 (0) 1753.603.000 Email: MSDSRequest@chemtura.com

#### 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW DANGER! MAY BE HARMFUL IF SWALLOWED. MAY BE IRRITATING TO RESPIRATORY SYSTEM, SKIN AND EYES. PROLONGED AND/OR REPEATED EXPOSURE MAY CAUSE THE FOLLOWING EFFECTS: DIZZINESS HEADACHE - DEFATTING OF THE SKIN MAY CAUSE LIVER DAMAGE. MAY CAUSE LIVER DAMAGE. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. EYE BURNS MAY OCCUR. CAUSES CANCER IN LABORATORY ANIMALS.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS INGREDIENT % BY WEIGHT Etridiazole CAS# 44.3 Naphthalene CAS# 91-20-3 < 5</td>



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< 5

1,2,4-Trimethylbenzene CAS# 95-63-6

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

### 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.

#### Eve 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:	151 °F	65.6 °C
Autoignition temp	erature:	
		Not available

Hazardous combustion products Combustion may produce the following products: Hydrogen chloride. Oxides of sulfur. Oxides of nitrogen.

<u>Special fire fighting procedures</u> 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

Unsuitable:

- water jets

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Wear suitable protective equipment., Avoid contact with eyes and skin.

#### Environmental precautions

Prevent from entering sewer system, surface water or soil.



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Pump excess material into suitable container (metal drums, metal tank, or such).

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### Methods for cleaning up

Observe government regulations.

Small spills:	Absorb on inert material such as sand, earth, vermiculite. Collect for disposal.	
Large spills	Dike to contain spill.	

#### 7. HANDLING AND STORAGE

#### HANDLING

#### Handling precautions

Do not get in eyes., Avoid prolonged or repeated contact with skin., Avoid breathing vapor., Use with adequate ventilation., Wash thoroughly after handling.

#### 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

Keep container closed., Store in a cool, dry place.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMIT VALUES

22	UKE LIMIT VALUES				
	Component Naphthalene	<u>Country</u>	<u>Type</u> twa, osha	<u>Value</u> 50 mg/m3 10 ppm 10 ppm	<u>Remark</u>
			STEL, OSHA	75 mg/m3 15 ppm 15 ppm	
			TWA (skin), ACGIH	10 ppm 10 ppm	
			STEL, ACGIH	15 ppm 15 ppm	
	1,2,4-Trimethylbenzene		TWA, OSHA	125 mg/m3 25 ppm 25 ppm	
			TWA, ACGIH	25 ppm 25 ppm	

#### PERSONAL PROTECTION

#### **Respiratory protection**

Self-contained breathing apparatus in high vapor concentrations.

### Hand protection / protective gloves

Chemical resistant protective gloves

#### Eye protection

Safety glasses with side shields.

#### Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.



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**Other protective equipment** 

#### Eye bath, Safety shower

#### ENGINEERING CONTROLS

<u>Ventilation</u> Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

9. PHYSICAL AND CHEMICAL PROPERTIES		
<u>APPEARANCE</u> Physical state	Liquid	
Color	Amber	
Odor	Solvent	
Odor threshold	Not available	
OTHER PROPERTIES Boiling point	Not available	
Melting point	Not available	
рН	4.6	
Specific gravity (H2O=1)	1.104	
Vapor pressure		
Solubility in water	Insoluble	
Solubility in organic solvents	Soluble	
Partitioning coefficient	No data available.	
Flash point	151 °F 65.6 ℃	
Autoignition temperature	Not available	

#### **10. STABILITY AND REACTIVITY**

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

# Incompatible materials: Strong oxidizing agents.

Hazardous combustion products: Combustion may produce the following products: Hydrogen chloride. Oxides of sulfur. Oxides of nitrogen.

#### **11. TOXICOLOGICAL INFORMATION**

SWALLOWING



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Test results Acute toxicity:

Test results Chronic toxicity: LD50 Rat Result: 1.6 g/kg

NOEL - Rat Result: 2.5 mg/kg Exposure time: 90 d

LD50 - Rat

Result: 3.6 g/kg

NOEL - Rats Result: 20 mg/kg Exposure time: 90 d

LC50 - Rat

Result: > 3.8 mg/l Exposure time: 4 h

Species: Rabbit

SKIN ABSORPTION Test results <u>Acute toxicity:</u>

Test results Chronic toxicity:

INHALATION Test results Acute toxicity:

SKIN CONTACT Test results <u>Skin irritation:</u>

EYE CONTACT Test results Eye irritation:

SENSITIZATION Test results: Species: Rabbit Result: Corrosive.

Result: - moderate irritation

Species: - Guinea pigs Result: Non sensitizing.

MUTAGENICITY

Assessment: Positive

CARCINOGENICITY

Assessment: Carcinogen Cat. 3

TOXICITY TO REPRODUCTION/FERTILITY

AssessmentNegative

#### 12. ECOLOGICAL INFORMATION

<u>Component ecotoxicology</u>	LC50 - Rainbow trout (Oncorhynchus mykiss)
Etridiazole	Result: 2.4 mg/l
<u>Acute toxicity fish:</u>	Exposure time: 96 h
Component ecotoxicology	LC50 - Bluegill (Lepomis macrochirus)
Etridiazole	Result: 3.27 mg/l
Acute toxicity fish:	Exposure time: 216 h



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<u>Component ecotoxicology</u>	LC50 - Sheepshead minnow (Cyprinodon variegatus)
Etridiazole	Result: 4.0 mg/l
<u>Acute toxicity fish:</u>	Exposure time: 96 h
<u>Component ecotoxicology</u>	EC50 - Algae
Etridiazole	Result: 0.072 mg/l
<u>Aquatic toxicity to plants:</u>	Exposure time: 120 h
<u>Component ecotoxicology</u>	EC50 - Water flea (Daphnia magna)
Etridiazole	Result: 3.1 mg/l
<u>Acute toxicity to aquatic invertebrates:</u>	Exposure time: 48 h

#### 13. DISPOSAL CONSIDERATIONS

General:

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

#### 14. TRANSPORT INFORMATION

#### **DOT Classification**

Not regulated by ground or rail if shipped or transported in containers less than 450 liters.

Proper shipping name:	COMBUSTIBLE LIQUID, N.O.S.
UN ID #:	NA1993
Packing group:	III
marine pollutant:	MARINE POLLUTANT

Not regulated by ground or rail if shipped or transported in containers less than 450 liters.

#### **IMDG Classification**

Proper shipping name: Class: Subsidiary risk: UN ID #: Packing group: <u>ICAO Classification</u>	Environmentally hazardous substance, liquid, n.o.s. 9 marine pollutant UN 3082 III
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Class:	9
UN ID #:	UN 3082
Packing group:	III

#### **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:

 Chemical name
 Max weight %

 Naphthalene
 Pli-20-3
 < 5.00</th>

 1,2,4-Trimethylbenzene
 95-63-6
 < 5.00</td>



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Superfund Amendments and Reauthorization Act			
appear in 40CFR372 (for SARA 313). This inform			<u>l.</u>
<u>Components present in this product at a level whic</u> Chemical name			
Naphthalene	CAS# 91-20-3	Max weight % < 5.00	
1,2,4-Trimethylbenzene	95-63-6	< 5.00	
<u>New Jersey Worker and Community Right-To-Kn</u> Chemical name Etridiazole	ow Act (Labeling Requirements) CAS# -	New Jersey TS Numl	ber
Inerts	-		
EPA Hazard Categories (SARA 311, 312):	Immediate Health Hazard, Delayed Heal	th Hazard, Fire Hazard	
<u>California Proposition 65</u> This product contains ETRIDIAZOLE which the Stat	e of California has found to cause cancer.		

#### CHEMICAL INVENTORY

Europe:	The ingredients of this product are on the EINECS inventory.	
United States:	This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act	
	(FIFRA) and is therefore exempt from TSCA Inventory listing requirements.	

#### **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.

STP	Standard temperature and pressure	
W/W	0 (HMIS)	
1 (HMIS)	Slight hazard	
2 (HMIS)	Moderate hazard	
3 (HMIS)	Serious hazard	Copyright 2007
4 (HMIS)	Severe hazard	
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions	Chemtura Corporation

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