



# Safety Data Sheet

Preparation Date 23-Feb-2022

Revision date 10-Feb-2025

Revision Number: 3

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Identification of the product

Product Description Terramaster 4EC

### Other means of identification

Internal SDS code 12-0571A

UN/ID no NA1993

Registration number(s) 70506-571

### Recommended use of the chemical and restrictions on use

Recommended use Fungicide.

Uses advised against Activities contrary to label recommendation

### Details of the Supplier of the Safety Data Sheet

#### Supplier Address

UPL NA Inc.

PO Box 12219

Research Triangle Park, NC 27709-12219

### Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

## 2. Hazards Identification

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A
Aspiration toxicity	Category 1

### Label elements

#### EMERGENCY OVERVIEW

**DANGER**

#### Hazard Statements

Causes severe eye damage

Causes skin irritation

Suspected of causing cancer

HARMFUL IF SWALLOWED

May be harmful in contact with skin

**Appearance** clear**Physical state** Liquid**Odor** Characteristic Petroleum solvent**Precautionary Statements - Prevention**

Wash hands thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Avoid release to the environment  
 Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN: Gently wash with plenty of soap and water

**Precautionary Statements - Storage**

Store in a well-ventilated place

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)**

None identified

**OTHER INFORMATION**

- Toxic to aquatic life

### 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Etridiazole	2593-15-9	44.30
Naphthalene	91-20-3	>40

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First aid measures

**FIRST AID MEASURES**

<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Most Important Symptoms and Effects** May cause damage to organs through prolonged or repeated exposure.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to physician** Treat symptomatically.

**5. Fire-fighting measures****Suitable extinguishing media**

alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

**Unsuitable extinguishing media** High volume water jet.

**Specific hazards arising from the chemical**

No information available.

**Explosion data****Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Avoid contact with skin and eyes. Provide adequate ventilation. Wear protective gloves/protective clothing and eye/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Environmental Precautions**

**Environmental precautions** Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Methods and material for containment and cleaning up**

**Methods for Clean-Up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

**7. Handling and Storage****Precautions for safe handling**

**Handling** Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Avoid contact with skin and eyes. Provide adequate ventilation. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed in a dry and well-ventilated place. Do not store in metal containers.

**incompatible materials** No information available.

**8. Exposure Controls/Personal Protection****Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL
Naphthalene	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m <sup>3</sup> (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m <sup>3</sup>

**Engineering controls** Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

#### **Personal protective equipment**

##### **Eye/Face Protection**

Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact. Safety glasses with side-shields. If splashes are likely to occur, wear:.. Face-shield.

##### **Skin protection**

Wear protective gloves/clothing. Chemical resistant footwear.

##### **Respiratory protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

#### **General hygiene considerations**

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

## **9. Physical and Chemical Properties**

### **9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	clear	
<b>Physical state</b>	Liquid	
<b>Odor</b>	Characteristic Petroleum solvent	
<b>color</b>	amber	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
<b>pH</b>	4.57	@ 25 ° C
<b>Melting point/freezing point</b>		None known
<b>Boiling Point/Range</b>		None known
<b>Flash Point</b>	65.6 C/ 150.08 F	None known
<b>Evaporation Rate</b>		None known
<b>Flammability (solid, gas)</b>		None known
<b>Specific gravity</b>	1.11 g/cm <sup>3</sup>	None known
<b>Bulk density</b>		None known
<b>Water solubility</b>		Soluble
<b>Solubility in Other Solvents</b>	No information available	None known
<b>Partition coefficient: n-octanol/water</b>		None known
<b>Autoignition temperature</b>		None known
<b>Decomposition temperature</b>		None known
<b>Viscosity</b>	4.5 mPas @ 20 °C	None known

### **9.2 OTHER INFORMATION- NONE**

## **10. Stability and Reactivity**

### **Reactivity**

no data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of hazardous reactions**

None under normal processing.

#### **Conditions to avoid**

Extremes of temperature and direct sunlight.

#### **Incompatible materials**

No information available.

#### **Hazardous decomposition products**

None under normal use conditions.

## 11. Toxicological Information

### **Information on Likely Routes of Exposure**

<b>Product information</b>	Terramaster 4EC Acute oral LD50 1618 mg/kg Acute dermal LD50 3618 mg/kg Acute inhalation LC50 >3.8 mg/l/4hr No mortality
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Skin contact</b>	Avoid contact with skin.
<b>Ingestion</b>	HARMFUL IF SWALLOWED.

### **Information on Toxicological Effects**

**Symptoms** No information available.

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Mutagenic effects** no data available.  
**Carcinogenicity** The information below indicates whether any agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	X

**Reproductive effects** Not Available.  
**STOT - Single Exposure** no data available.  
**STOT - Repeated Exposure** no data available.  
**Aspiration hazard** No information available.

### **Numerical Measures of Toxicity - See above**

## 12. Ecological Information

### **ecotoxicity**

Etridiazole:  
FISH

Rainbow trout LC50 (96 hr) = 2.4 mg/L  
 DAPHNIA  
 Water flea EC50 (48hr) = 3.1 mg/L  
 ALGAE Green algae EC50 (48hr) = 0.8 mg/L

**Persistence/Degradability**

no data available.

**Bioaccumulation/ Accumulation**

Bioaccumulative potential.

Chemical name	Log Pow
Naphthalene 91-20-3	3.6

**Other Adverse Effects**

no data available

### 13. Disposal Considerations

**Waste Treatment Methods****Waste Disposal Method**

Dispose of in accordance with local regulations. Pesticide wastes can be hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or 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.

**Contaminated packaging**

Refer to product label.

Chemical name	Naphthalene
---------------	-------------

### 14. Transport Information

**DOT**

When shipped domestically IN NON-BULK packages by highway this material is classed as a combustible liquid and as such is not subject to the DOT regulations per 49 CFR 173.150(f) (2) and therefore can be designated as Not Regulated

Combustible designation is limited to the United States only, International transportation regulations do not recognize combustible classification.

For domestic bulk shipments (above 119 gallon capacity) this material is designated as Combustible liquid as follows:

When shipped in bulk or internationally the marine pollutant marking must also be added to the package.

<b>UN/ID no</b>	NA1993
<b>Proper shipping name</b>	Combustible liquid, n.o.s (naphthalene)
<b>Hazard class</b>	Comb Liq
<b>Packing group</b>	PG III

**IATA**

<b>UN/ID no</b>	UN3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Etridiazole)
<b>Hazard class</b>	9
<b>Packing group</b>	PG III

**Description** Marine pollutant

**IMDG**

**UN/ID no** UN3082  
**Proper shipping name** Environmentally hazardous substances, liquid, n.o.s (Etridiazole)  
**Hazard class** 9  
**Packing group** PG III  
**Environmental hazards** Marine pollutant

## 15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**signal word** DANGER

**Keep out of Reach of Children. Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if swallowed. Harmful if absorbed through the skin.**

**International Inventories**

**USINV** Present  
**DSL/NDSL** Not present  
**EINECS/** Not Present  
**ELINCS**  
**ENCS** Not Present  
**China** Not Present  
**KECL** Present  
**PICCS** Not Present  
**AICS** Not Present  
**TSCA** Not Present

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Naphthalene 91-20-3	100 lb	X	X	X

**CERCLA**

Chemical name	RQ	CERCLA EHS RQs	RQ
---------------	----	----------------	----

Naphthalene 91-20-3	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
------------------------	--------	--	---

**CERCLA**

Component	RQ
Naphthalene 91-20-3 ( >40 )	100 lb

**RCRA**

Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Naphthalene 91-20-3 ( >40 )			U165

**Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Etridiazole 2593-15-9 ( 44.30 )			X	

**State Regulations**

Component		California Prop. 65	
Etridiazole 2593-15-9 ( 44.30 )		Carcinogen	
Naphthalene 91-20-3 ( >40 )		Carcinogen	
Chemical name	CAS No	CATEGORY	
Etridiazole	2593-15-9	Carcinogen	
Naphthalene	91-20-3	Carcinogen	

**Prop 65 Pictogram****Prop 65 Warning Statement  
California Proposition 65****WARNING**

This product can expose you to chemicals which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**State Right-to-Know**

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Etridiazole - 2593-15-9				X	
Naphthalene - 91-20-3	X	X	X	X	

**International regulations****U.S. EPA Label information**

EPA Pesticide registration number 70506-571

**16. Other Information**

**NFPA** HEALTH 3 flammability 2 Instability 0 Physical hazard -

Preparation Date 23-Feb-2022

Revision date 10-Feb-2025

**Revision Summary**

Update section 14 Update section 15

**Disclaimer**

UPL NA Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPL NA Inc. and UPL NA Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.



End of SDS