



Safety Data Sheet

Preparation Date 16-Mar-2022

Revision date 16-Mar-2022

Revision Number: 2

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

Identification of the product

Product Description Terraguard® SC/LS

Other means of identification

Internal SDS code 12-0584
Registration number(s) 70506-584

Recommended use of the chemical and restrictions on use

Recommended use Fungicide.
Uses advised against Non labeled activities

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL NA Inc.
630 Freedom Business Center
Suite 402
King of Prussia, PA 19406

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)

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements

Harmful if inhaled



The product contains no substances which at their given concentration, are considered to be hazardous to health under the OSHA 2012 HazCom

Appearance suspension	Physical state Liquid	Odor sweet Alcohol odor
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Precautionary Statements - Prevention

Do not eat, drink or smoke when using this product
 Do not get in eyes, on skin, or on clothing
 Wash hands thoroughly after handling

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Storage

Store in a closed container

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

- Toxic to aquatic life with long lasting effects

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Triflumizole	68694-11-1	42.14
Propylene Glycol	57-55-6	6

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Call a poison control center or doctor for treatment advice.
Inhalation	Move person 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.
Ingestion	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 Suspected of damaging fertility or unborn child.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical. alcohol-resistant foam.

Unsuitable extinguishing media High volume water jet.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours.

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.

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. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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). Take up mechanically and collect in suitable container 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. Do not eat, drink or smoke when using this product. In case of inadequate ventilation wear respiratory protection.

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

Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Keep only in original container. Keep out of the reach of children. Store locked up.

incompatible materials

No materials to be especially mentioned.

8. Exposure Controls/Personal Protection

Exposure guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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. Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.

Skin protection

Wear protective gloves/clothing. Chemical resistant gloves. Chemical resistant footwear plus socks.

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. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Wear respiratory protection.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	suspension		
Physical state	Liquid		
Odor	sweet Alcohol odor		
color	Off-white to Tan		
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>	
pH	8.33	(1% aq) @ 25 ° C	
Melting point/freezing point		None known	
Boiling Point/Range		None known	
Flash Point	> 110 °C	None known	
Evaporation Rate		None known	
Flammability (solid, gas)		None known	
Relative Density	1.116 g/cm ³ @20 C	Specific gravity	
None known		Bulk density	
None known		Water solubility	
None known		Solubility in Other Solvents	No information available
None known		Partition coefficient: n-octanol/water	
None known		Autoignition temperature	
None known		Decomposition temperature	
None known		Viscosity	624 mPa S @20 C
None known			

9.2 OTHER INFORMATION

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

No information available.

incompatible materials

No materials to be especially mentioned.

Hazardous decomposition products

None under normal use conditions.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information	Terraguard SC/LS Acute oral LD50 2000 mg/kg Acute dermal LD50 >5000 mg/kg Acute inhalation LC50 >3.28 mg/L/4hr No mortality
Inhalation	HARMFUL IF INHALED.
Eye contact	May cause temporary eye irritation.
Skin contact	Substance may cause slight skin irritation.
Ingestion	MAY BE 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	There are no known carcinogenic chemicals in this product.
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

Triflumizole 42% formulation:
Rainbow trout 96 hr LC50 = 0.76 mg/L
Carp 96 hr LC50 = 1.2 mg/L
Daphnia Magna 48 hr EC50 = 1.42 mg/L
Mysid shrimp 96 hr = 0.62 mg/L

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Propylene Glycol 57-55-6	-1.07

Other Adverse Effects

no data available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method	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.

14. Transport Information

DOT	When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated. When shipped in bulk, by vessel, or internationally use the IMDG shipping description:
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IATA

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

IMDG

UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substances, liquid, n.o.s (Triflumizole)
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 CAUTION

Harmful if swallowed. Toxic to fish.

International Inventories

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

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CERCLA

Not applicable

CERCLA

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Triflumizole 68694-11-1 (42.14)			X	
Propylene Glycol 57-55-6 (6)			X	

State Regulations

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propylene Glycol - 57-55-6		X	X		

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-584

16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

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Revision Summary

Add to system

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End of SDS