

1. IDENTIFICATION

Product identifier

Product Name UDT Tropical Polyurea Part A

Other means of Identification

Part Numbers

Medium Tan	234660
Mineral Gray	234640

Recommended use of the chemical and restrictions on use

Recommended use Protective floor coating; for professional use only
Uses advised against Not intended for consumer use

Details of the supplier of the safety data sheet

Manufacturer Address

Ultra Durable Technologies
 355 6th Ave. North
 Waite Park, MN 56387
 320-258-2266
 Ultradtd.com

Emergency telephone number

Emergency Telephone Chemtrec 320-221-9499

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2024 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Skin Irritant	Category 2

GHS Label elements, including precautionary statements



Signal Word **Warning**

Hazard statements:

Causes serious eye irritation.
 Causes skin irritation.

Precautionary Statements – Prevention:

Wash hands and affected skin thoroughly after handling.
 Wear protective gloves, protective clothing, and eye protection.

Precautionary Statements – Response

IF ON SKIN: Immediately take off all contaminated clothing. Rinse with water for several minutes. Wash contaminated clothing before reuse or discard.
 If skin irritation occurs, get medical help.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, get medical help.

Precautionary Statements – Storage:

Store locked up.

Precautionary Statements – Disposal:

Dispose of contents and container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Castor Oil	8001-79-4	60 - 65
Color Dispersion containing Titanium Dioxide	13463-67-7	10 - 20
Zeolite Powder	1318-02-1	2 - 5
Modified Oxazolidine	145899-78-1	1 - 5
3-glycidyl-oxypropyl-trimethoxy-silane	2530-83-8	0.1 - 1

Trade Secret statement (OSHA 1910.1200(i)) Specific chemical identities and concentrations for one or more listed chemicals are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

4. FIRST AID MEASURES**Description of first aid measures****Eye Contact**

Rinse eyes thoroughly with running water for at least 15 minutes, lifting upper and lower eyelids as able. Remove contact lenses if easy to do and continue rinsing. Seek medical attention if irritation develops.

Skin Contact

Wash skin thoroughly with soap and water after handling. Remove contaminated clothing and wash thoroughly before reuse or discard. Seek medical attention if irritation develops.

Inhalation

Remove victim to fresh air and keep comfortable for breathing. If necessary, use artificial respiration to support vital functions. Seek medical attention if irritation develops and persists.

Ingestion

If product is swallowed, call physician or poison control center for most current information. Rinse mouth. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Most important symptoms and effects, both acute and delayed

Pre-existing skin or respiratory conditions may be aggravated

Immediate medical attention and special treatment, if necessary

No information available

Special instructions for Physicians

Treat symptomatically

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Water spray. Foam. Halon. Carbon Dioxide. Dry Chemical. Class "C" extinguishers.

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical

No information available

Protective equipment and precautions for fire-fighters

Evacuate area. Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation, especially in confined areas.

Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene.

Avoid breathing dust/fumes/gas/mist/vapor/spray.

Environmental precautions

Avoid release to the environment. Do not allow product to enter drains, sewers, public water, surface water, or groundwater. If contact is made, notify authorities.

Methods and material for containment and cleaning up

Use personal protective equipment as required. Stop flow of material if able to do so safely. Contain discharged material. Absorb spill using absorbent, non-combustible material such as earth, sand, or vermiculite. Take up mechanically to an appropriate disposal container. Dispose of in accordance with local, state, and federal regulations. Scrub residues with detergent-water mix and allow to air dry.

7. HANDLING AND STORAGE**Precautions for safe handling**

Wear appropriate personal protective equipment – gloves, safety glasses, appropriate clothing. Wash hands thoroughly after use. Practice good industrial hygiene when using product.

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

Store in a cool, dry place away from direct sunlight. Store locked up. Keep container tightly closed when not in use.

:

Incompatible materials

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering Controls**

The use of local exhaust ventilation is recommended. Eyewash stations, chemical showers recommended.

Exposure Guidelines

Chemical Name	STEL	ACGIH TLV	OSHA TWA
Castor Oil	Not established	Not established	Not established
Color Dispersion containing Titanium Dioxide (Gray)	Not established	Not established	Not established
Zeolite Powder	Not established	Not established	Not established
3-glycidyl-oxypropyl-trimethoxy-silane	Not established	Not established	Not established
Modified Oxazolidine	Not established	Not established	Not established

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Protective Eyewear (chemical goggles). Face shield if splash hazard exists.

Skin and Body Protection

Gloves. Protective clothing.

Respiratory Protection

If adequate ventilation is not available, wear appropriate respirator for specific circumstances and with exposure guidelines in mind.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	May be opaque tan or opaque gray
Odor	Mild, sweet
Melting point	No information
Boiling point	No information
Flammability	Not applicable
Upper flammability limit	No information
Lower flammability limit	No information
Flash point	>93.3°C/ >200°F
Autoignition Temperature	No information
Decomposition temperature	No information
pH	No information
Dynamic Viscosity	No information
Kinematic Viscosity	No information
Solubility	Insoluble
Partition coefficient n-octanol/water (Log Pow)	No information
Vapor pressure	No information
Density	9.0 lbs/gal
Relative Density	No information

10. STABILITY AND REACTIVITY**Reactivity**

This product is non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under normal conditions.

Hazardous reactions

None under normal conditions of use.

Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials

Strong oxidizing materials. Strong acids.

Hazardous decomposition products

Thermal decomposition products include oxides of carbon and possible harmful vapors.

11. TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure**

Inhalation	Inhalation of gas/mist/vapor
Eye Contact	Liquid material splash or gas/vapor/mist
Skin Contact	Liquid material splash
Ingestion	Liquid material

Symptoms related to the physical, chemical, and toxicological characteristics

Skin irritation leading to rash.

Eye irritation.

Delayed and immediate effects and also chronic effects from short- and long-term exposure

No information available

Numerical Values of Toxicity – Component Information

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Castor Oil	--	--	--
Color Dispersion containing Titanium Dioxide (Gray)	>10,000 mg/kg (Rat)	>10,000 mg/kg (Rat)	3.43 mg/L (Rat, dust/mist)
Zeolite Powder	5,000 mg/kg (Rat)	>2,000 mg/kg (Rat)	2.4 mg/L (Rat, 1 hour)
3-glycidyl-oxypropyl-trimethoxy-silane	--	4,248 mg/kg (Rabbit)	5.3 mg/L (Rat, 4 hour, dust/mist)
Modified Oxazolidine	> 2000 mg/kg (Rat)	--	--

Skin Corrosion/Irritation	May cause skin irritation leading to rash
Serious Eye Damage/Irritation	May cause eye irritation
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
STOT – Single Exposure	Not classified
STOT – Repeated Exposure	Not classified
Aspiration Hazard	Not classified

Numerical Values of Toxicity – Product Information

The following data has been calculated using Chapter 3 of the GHS document.

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
UDT Tropical Polyurea Part A	2,833 mg/kg	2,931 mg/kg	4.98 mg/L (dust/mist)

Acute Toxicity (oral)	Not classified
Acute Toxicity (dermal)	Not classified
Acute Toxicity (inhalation)	Not classified

Interactive effects

Pre-existing skin allergies and conditions may be aggravated with exposure to the product. Repeated exposure may further exaggerate skin conditions.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is not considered harmful to aquatic organisms or to cause long-term adverse effects on the environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Castor Oil	--	--	--
Color Dispersion containing Titanium Dioxide (Gray)	--	--	--
Zeolite Powder	EC ₅₀ = 18 mg/L (95h <i>Desmodesmus suspicatus</i>)	LC ₅₀ = 1800 – 3200 mg/L (96h <i>Poecillia reticulata</i>) LC ₅₀ = 3200 – 5600 mg/L (96h <i>Oryzias latipes</i>) LC ₅₀ = 1800 mg/L (96h <i>Brachydanio rerio</i>)	EC ₅₀ = 1000 – 1800 mg/L (48h <i>Daphnia magna</i>)
3-glycidyl-oxypropyl-trimethoxy-silane	--	--	--
Modified Oxazolidine	LC ₅₀ = 21 mg/L (72h)	LC ₅₀ = 87.5 mg/L (96h)	EC ₅₀ >100 mg/L (48h <i>Daphnia</i>)

Chemical Name	Algae/aquatic plants	Fish	Crustacea
UDT Polyurea Summer/Winter Part A	--	--	--

Persistence and Degradability

No information available

Bioaccumulation Potential

Chemical Name	Partition Coefficient n-octanol/water (Log P _{ow})
Castor Oil	Not established
Color Dispersion containing Titanium Dioxide (Gray)	Not established
Zeolite Powder	Not established
3-glycidyl-oxypropyl-trimethoxy- silane	-0.854
Modified Oxazolidine	Not established

Assessment

Significant accumulation not expected.

Mobility in Soil

No information available

Other adverse effects**Elimination information**

No information available

Water hydrolysis

No information available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods**Disposal of Wastes**

Disposal should be in accordance with applicable regional, national, and local laws and regulation. Do not discharge product into sewer system.

Contaminated Packaging

Do not reuse container.

14. TRANSPORT INFORMATION

UN Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport Hazard Class(es)	
DOT	Not applicable
IOMDG	Not applicable
IATA	Not applicable
Packing Group	
DOT	Not applicable
IMDG	Not applicable
IATA	Not applicable
Environmental Hazards	None
Special Instructions for User	None

NOTE Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100-177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

15. REGULATORY INFORMATION

Chemical Inventories**TSCA**

All components of this product are listed on the TSCA Inventory or are exempted from listing.

US Federal Regulations**SARA 313**

Section 313 of the 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.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No
Carcinogenicity	No
Respiratory or Skin Sensitization	No
Germ Cell Mutagenicity	No
Serious Eye Damage/Irritation	Yes

US State Regulations

California Proposition 65 – This product does not contain substances believed by the State of California to cause cancer, developmental, and/or reproductive harm.

State Right to Know – Massachusetts, New Jersey, Pennsylvania

NFPA Hazard codes

Health	1
Fire	1
Reactivity	0

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Preparation Date	24-June-2024
Revision Date	30-April-2025
Revision Note	General formatting updates. Updated Sections 1, 2, 4,11, 14, and 15.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Shipping information may vary based upon container size and shipping destination. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. The manufacturer assumes no responsibility for injury to the recipient or third persons, or for any damages to any property resulting from misuse of the product.

End of Safety Data Sheet