SAFETY DATA SHEET

Revision Date 9-January-2026
Version # 1.1

1. IDENTIFICATION

Product identifier
Product Name EPIC Bond Promoter

Other means of identification
Part Number(s) 401790, 401799, 401800, 401801

Recommended use of the chemical and restrictions on use
Recommended use Interface additive and adhesion promoter for coatings; 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
Ultradt.com

Emergency telephone number
Emergency Telephone Chemtrec 1-800-424-9300

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 1

Signal Word **Danger**

Hazard statements
Causes serious eye damage.

Precautionary Statements - Prevention
Wear eye protection and face protection.

Precautionary Statements - Response
IF IN EYES: immediately flush with waterless cleanser. Remove contact lenses, if present and easy to do. Continue rinsing with running water.
Seek immediate medical attention.

Precautionary Statements - Storage

Precautionary Statements – Disposal

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
3-glycidyl-oxypropyl-trimethoxy-silane	2530-83-8	≥ 98

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Immediately flush eyes with waterless cleanser, lifting upper and lower eyelids as able. Remove contact lenses if present and easy to do. Continue rinsing eyes with running water for at least 15 minutes. Seek immediate medical attention.

Skin Contact Immediately flush skin with waterless cleanser. Seek medical attention if skin irritation or rash develop.

Inhalation Remove victim to fresh air and keep comfortable for breathing. If necessary, use artificial respiration (CPR) to support vital functions. If respiratory irritation develops, seek medical advice.

Ingestion Rinse mouth thoroughly with water and drink plenty of water afterwards. Do NOT induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow.

Most important symptoms and effects, both acute and delayed

Substance may cause irritation in contact with eyes including burning sensations. Prolonged exposure may cause temporary or permanent blindness.
Substance will hydrolyze on contact with moisture and upon contact with bodily fluids to liberate methanol, which is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Consider the signs and symptoms of methanol poisoning over the latency period of several days.

Immediate medical attention and special treatment, if necessary

Immediately flush eyes with waterless cleanser.
Observe for signs and symptoms of methanol poisoning.

Note to physicians

Treat symptomatically.
Consider the signs and symptoms of methanol poisoning over the latency period of several days.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide. Dry powder. Foam.

Unsuitable extinguishing media

Water; product hydrolyzes in presence of water, liberating small amounts of methanol. Methanol is toxic by inhalation, in contact with skin, and if swallowed.

Specific hazards arising from the chemical

Hazardous decomposition products include toxic fumes and oxides of carbon.
Product hydrolyzes in contact with water to liberate small amounts of methanol, a toxic substance by inhalation, in contact with skin, and if swallowed.

Protective equipment and precautions for firefighters

Evacuate area and move all non-emergency personnel away from and upwind of fire.
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. Do not breathe vapor.
Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene.

No open flames, no sparks, and no smoking.
Avoid contact with skin, eyes, and clothing.

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 materials for containment and cleaning up
Keep non-emergency personnel away from and upwind of spill.
Use personal protective equipment as required. Stop flow of material if able to do so safely. Contain discharged material. Absorb spill using inert, absorbent material, such as sand, earth, or vermiculite. Take up mechanically to an appropriate waste disposal container. Wash spill site with waterless cleanser and allow to air-dry.

7. HANDLING AND STORAGE

Precautions for safe handling
Wear appropriate personal protective equipment – gloves, safety glasses, appropriate work clothing. Wash hands and exposed skin with waterless cleanser thoroughly after use. Practice good industrial hygiene when using product. Ensure good ventilation of the workstation. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Do not breathe vapor. Do not get on skin or in eyes.
Contaminated clothing should not be allowed out of the workplace. Discard.

Conditions for safe storage, including any incompatibilities
Storage Conditions
Store in a cool, dry, well-ventilated place. Store away from direct sunlight, locked up in tightly closed containers when not in use. Protect from moisture. Keep from freezing.

Incompatible materials
Moisture. Water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
The use of local exhaust ventilation is recommended. Eyewash stations including waterless cleanser are required. Chemical showers are recommended.

Exposure Guidelines

Chemical Name	ACGIH	NIOSH	OSHA – Final PELs
3-glycidyl-oxypropyl-trimethoxy-silane	Not established	Not established	Not established
Methanol	STEL 250 ppm TWA 200 ppm	STEL 325 mg/m3 250 ppm TWA 260 mg/m3 200 ppm	Table Z-1 limits (29 CFR 1910.1000)

Individual protection measures, such as personal protective equipment

Eye/Face protection Protective eyewear (chemical goggles, safety glasses). Face shield if splash hazard exists.

Skin and body protection Gloves. Protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Clear, colorless
Odor	Ester-like
Melting point	-70 °C / -94 °F
Boiling point	233 °C / 451.4 °F
Flammability	Not flammable
Upper flammability limit	No information

Lower flammability limit	No information
Flash point	110 °C / 230 °F
Autoignition Temperature	400 °C / 752 °F
Decomposition temperature	No information
pH	No information
Dynamic Viscosity	2.9 mPa·s
Kinematic Viscosity	No information
Solubility	36.5 g/l
Partition coefficient n-octanol/water (Log Pow)	0.5
Vapor pressure	< 1 hPa
Density	1.070 g/ml
Specific Gravity	No information
Relative Density	No information

10. STABILITY AND REACTIVITY

Reactivity
Reacts with water, moisture.

Chemical Stability
Stable under normal conditions.
May decompose on exposure to moisture or water.

Possibility of Hazardous Reactions
Will hydrolyze to liberate small amounts of methanol, a chemical that is toxic in contact with skin, if inhaled, and if swallowed.

Conditions to avoid
Extremes of temperature.
Direct sunlight.
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Atmospheric moisture.

Incompatible materials
Water. Moisture.
Strong oxidizing agents, strong acids. Bases. Peroxides.

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Inhalation of vapors.
Eye contact	Liquid material splash or vapors.
Skin contact	Liquid material splash.
Ingestion	Liquid material.

Symptoms related to the physical, chemical, and toxicological characteristics
Substance may cause irritation of the eyes, including stinging, tearing, redness, swelling, and blurred vision. Contact with aqueous mucosal layer of eye will cause substance to hydrolyze and liberate methanol, which can cause temporary or permanent blindness.

Delayed and immediate effects as well as chronic effects from short- and long-term exposure
Will hydrolyze to liberate small amounts of methanol, a chemical which is toxic in contact with skin, if inhaled, and if ingested. Be conscious to monitor for signs and symptoms of methanol poisoning over the latency period of a few days.

Numerical Values of Toxicity – Component Information

Chemical name	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
3-glycidyl-oxypropyl-trimethoxy-silane	= 6,200 mg/kg	= 2,517.57 mg/kg	= 22,500 ppm

Skin Corrosion/Irritation	Not classified.
Serious Eye Damage/Irritation	May be irritating to eyes – stinging, tearing, redness, swelling, blurred vision.
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 measures of Toxicity – Product Information

Chemical name	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
EPIC Bond Promoter	= 6,200 mg/kg	= 2,517.57 mg/kg	= 22,500 ppm

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

Interactive effects
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
This substance is not considered harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
3-glycidyl-oxypropyl-trimethoxy-silane	--	LC_{50} = 55 mg/L (96h)	EC_{50} = 324 mg/l (Daphnia, 48h)

Chemical name	Algae/aquatic plants	Fish	Crustacea
EPIC Bond Promoter	--	LC_{50} = 55 mg/L (96h)	EC_{50} = 324 mg/l (Daphnia, 48h)

Persistence and degradability
No information available.

Bioaccumulation potential

Chemical Name	Partition Coefficient n-ocatnol/water (Log P_{ow})
3-glycidyl-oxypropyl-trimethoxy-silane	0.5

Assessment
No information available.

Mobility in Soil
No information available.

Other adverse effects
Elimination information
No information available.

Water hydrolysis
Hydrolyzes to liberate methanol, a chemical that is toxic in contact with skin, if inhaled, and if ingested.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Disposal of waste Disposal of contents/container should be in accordance with applicable regional, national, and local laws and regulations. Do not discharge product into sewer system.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

UN Number Not regulated
UN Proper Shipping Name Not applicable
Transport Hazard Class(es)

DOT	Not applicable
IMDG	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 Substance listed.

US Federal Regulations

SARA 313

Section 313 of the Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This substance is not subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulation, 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 substance is not known to the State of California to cause cancer, developmental, and/or reproductive harm.

State Right to Know – Substance does not appear on any ERTK list.

International Regulations

AIIC Complies
(Australia Industrial Chemical Act)

DSL Complies
(Canada Domestic Substances List)

CIECS Complies
(China Inventory of Existing Chemical Substances)

ENCS Complies
(Japanese Existing and New Chemical Substances Inventory)

KECI Complies
(Korea Existing Chemicals Inventory)

NZIC Complies
(New Zealand Inventory of Chemicals)

PICCS Complies
(Philippine Inventory of Chemicals and Chemical Substances)

TCSI Complies
(Taiwan Chemical Substance Inventory)

HMIS Hazard Codes

Health	**3**
Fire	**1**
Reactivity	**1**

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

Preparation Date	09-Feb-2023
Revision Date	9-January-2025
Revision Note	General formatting updates; updated sections 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 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