

1. IDENTIFICATION

Product identifier

Product Name EPIC Bond Promoter

Other means of identification

Part Number(s) 401790, 401799, 401800, 401801, 401801ETS

Recommended use of the chemical and restrictions on use

Recommended use Interface additive and adhesion promoter for coatings.

Uses advised against No information available

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

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Health	Category 2
Flammability	Category 4
Reactivity	Category 5

Danger



Hazard statements

Causes serious eye damage.

Harmful to aquatic life.

Precautionary Statements**Prevention:**

Avoid release to the environment.
Wear eye protection/face protection.

Response:

If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Storage:

Store in a closed container.

Disposal:

Dispose of contents/container at an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Composition / Information on ingredients mixtures:**

3-Glycidyl-oxypropyl-trimethoxy-silane, minimum purity 98%

Methanol 67-56-1 <0.2

Minor Impurities: Not determined

CAS Number: 2530-83-8

EINECS Number: 219-784-2

RTECS Number: VV4025000

4. FIRST AID MEASURES

Eye: Immediately flush with water for 15 minutes.

Skin: Remove from skin and wash thoroughly with soap and water or water less cleanser. Get medical attention if irritation or other ill effects develop or persist.

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Oral: Get medical attention. Do not induce vomiting.

Comments: Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water reactive. Material will react with water and may release a flammable and/or toxic gas.

Flash Point: 122 deg C (251.60 deg F)

Auto ignition Temperature: 400 deg C (752.00 deg F)

Extinguishing Media: Use foam, dry chemical, or carbon dioxide. DO NOT USE WATER!

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 2; Special Hazard: -W-

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not breathe mist or vapor. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. In case of spills, beware of slippery floors and surfaces. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. See Section 8 of the SDS for Personal Protective Equipment.

7. HANDLING AND STORAGE

Handling: Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use with adequate ventilation. Do not allow contact with water. The product is immiscible with water and will sediment in water systems.

Storage: Store in a cool, dry place. well-ventilated place. Protect from moisture. Keep from freezing. Prevent including any incompatibilities contact with water or air and store in air-tight containers in vacuum or in inert atmosphere. Never leave unsealed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

OSHA Vacated PELs: 3-Glycidoxypropyltrimethoxysilane: No OSHA Vacated PELs are listed for this chemical.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA – Final PELs
Methanol (CAS 67-56-1)	STEL 250 ppm TWA 200 ppm	STEL 325 mg/m ³ 250 ppm TWA 260 mg/m ³ 200 ppm	Table Z-1 limits (29 CFR 1910.1000)

Personal Protective Equipment For Routine Handling:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless transparent liquid
Physical Constants:	
Boiling Point:	554 °F (290 °C) (760 mm)
Molecular Formula:	C ₉ H ₂₀ O ₅ Si
Formula Weight:	236.34
Water Solubility:	NA
Density:	1.070±0.005
Flash Point:	30.0 °F (110.0 °C) Pinsky-Martens Closed Cup

10. STABILITY AND REACTIVITY

Chemical Stability: May decompose on exposure to moist air or water. Reacts with water.

Conditions to Avoid: Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids, water, bases, peroxides.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, silicon dioxide, methanol.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Information on likely routes of exposure

Inhalation:	Do not inhale this material.
Skin contact:	Avoid contact with skin.
Eye contact:	Causes serious eye damage.
Ingestion:	Do not ingest.

Symptoms related to the Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and physical, chemical and blurred vision.

Toxicological characteristics: Liquid or vapors can react with moisture in the eye to form methanol, an alcohol which can cause temporary or permanent blindness depending on exposure. Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.

Information on toxicological effects

Acute toxicity:	Not classified.
Components Species Test Results: Methanol (CAS 67-56-1)	
Acute Inhalation:	LC50 Rat 22500 ppm, 8 hours
Oral:	LD50 Rat 6200 mg/kg
Skin corrosion/irritation:	Prolonged skin contact may cause temporary irritation. Based on available data, the classification criteria are not met. Serious eye damage.
Respiratory or skin sensitization:	Respiratory sensitization Due to lack of data the classification is not possible.
Skin sensitization:	Due to lack of data the classification is not possible.
Germ cell mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) not listed. Reproductive toxicity Due to lack of data the classification is not possible. Specific target organ toxicity -Due to lack of data the classification is not possible.
Repeated exposure:	Aspiration hazard Due to lack of data the classification is not possible.
Chronic effects:	May cause damage to organs through prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability:	No data is available on the degradability of this product.
Bio accumulative potential:	No data available for this product.
Partition coefficient n-octanol / water (log Kow)	
Methanol:	(CAS 67-56-1) -0.77
Mobility in soil:	No data available.
Other adverse effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Product Disposal instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not contaminate ponds, waterways or ditches with chemical or used container.
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Hazardous waste code: Dispose of contents/container in accordance with local/regional/national/international regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused: Dispose of in accordance with local regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company.

14. TRANSPORT INFORMATION

Proper Shipping Name: None
 Hazard Technical Name: None
 Hazard Class: N/A
 UN/NA Number: None
 Packing Group: N/A

15. REGULATORY INFORMATION

TSCA: CAS# 2530-83-8 is listed on the TSCA inventory.
 Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.
 Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.
 Section 12b: None of the chemicals are listed under TSCA Section 12b.
 TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.
 CERCLA Hazardous Substances and corresponding RQs: None of the chemicals in this material have an RQ.
 SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:
 This material does not contain any hazardous air pollutants.
 This material does not contain any Class 1 Ozone depletors.
 This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
 None of the chemicals in this product are listed as Hazardous Substances under the CWA.
 None of the chemicals in this product are listed as Priority Pollutants under the CWA.
 None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE CAS# 2530-83-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65: no
 Significant Risk Level: any of the chemicals in this product are listed.

European/International Regulations
 European Labeling in Accordance with EC Directives
 Hazard Symbols: Not available.
 Risk Phrases: Safety Phrases: S 24/25 Avoid contact with skin and eyes.

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

HMIS HAZARD RATINGS 0 = INSIGNIFICANT; 1 = SLIGHT; 2 = MODERATE; 3 = HIGH; 4 = EXTREME
 HEALTH: 3 FLAMMABILITY: 1 PHYSICAL HAZARD: 1

Preparation Date 09-Feb-2023

Revision Date 23-Oct-2023
Revision Note Recommended use added. General format update.

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