

1. Identification

Product Identifier: **Ultra Clear Marine Epoxy Slow Marine Hardener**
 Use: **Polymer Matrix for Fiber-Reinforced Plastic (FRP). For Industrial/Professional use only.**
 Manufacturer: **Polytek Development Corp.**
55 Hilton Street, Easton, PA 18042
 Phone Number: **800-858-5990 (8am to 6:30pm EST)**
 Emergency Phone: **CHEMTREC 800-424-9300 or +1 703-527-3887**
 E-mail: **sds@polytek.com**

2. Hazards Identification

GHS Classification:

- Acute Toxicity (Oral) – Category 4
- Acute Toxicity (Dermal) – Category 4
- Acute Toxicity (Inhalation) – Category 4
- Skin Corrosion – Category 1
- Serious Eye Damage – Category 1
- Skin Sensitizer – Category 1
- Specific Target Organ Toxicity – Single Exposure Category 3
- Hazardous to the Aquatic Environment – Chronic Hazard Category 3

Label Elements: Danger



Hazard Phrases

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary Phrases

- P260 Do not breathe mists.
- P264 Wash with soap and water thoroughly after handling.
- P270 Do not eat, drink, or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, eye protection, and face protection.
- P301+P317 IF SWALLOWED: Get medical help.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P316 Get emergency medical help immediately.
- P317 Get medical help.
- P319 Get medical help if you feel unwell.
- P330 Rinse mouth.
- P333+P317 If skin irritation or rash occurs: Get medical help.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P363 Wash contaminated clothing before reuse.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

- P405 Store locked up.
- P501 Dispose of contents and container in accordance with local, regional, and national regulations.

Supplemental Information: This is one part of a two-part system. Read and understand the hazard information on resin before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Epoxy Resin	25068-38-6	10-20
Proprietary Amines	Proprietary	70-80
Trade Secret Ingredients	Proprietary	10-20

Exact concentrations are withheld as trade secret. Other ingredients are not listed because they are either not hazardous or are below cut-off/concentration thresholds.

4. First-Aid Measures

- Eye Contact:** Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Remove contact lenses if safe and easy to do. Continue rinsing. Get medical attention immediately.
- Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention immediately. Wash contaminated clothing before reuse. Discard clothing that cannot be decontaminated.
- Inhalation:** Remove person to fresh air. Get medical attention immediately.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.
- Most Important Symptoms/Effects:** Harmful if swallowed, in contact with skin or inhaled.
- Indication of Immediate Medical Attention/Special Treatment:** Get immediate medical attention if on skin, in eyes, swallowed, or inhaled.

5. Fire-Fighting Measures

- Extinguishing Media:** Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or spread fire.
- Specific Hazards:** Not classified as flammable or combustible. Product will burn under fire conditions. Combustion products include oxides of carbon, phenolics, aldehydes and other toxic organic compounds.
- Special Protective Equipment & Precautions for Fire-Fighters:** Wear positive pressure, self-contained breathing apparatus, and full-body protective clothing.

6. Accidental Release Measures

- Personal Precautions, Protective Equipment and Emergency Procedures:** Clear unnecessary, unprotected personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors.
- Methods and Materials for Containment and Cleanup:** Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid releases to the environment.

7. Handling and Storage

- Safe Handling:** Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke in the work area. Keep container closed when not in use.
- Safe Storage:** Store indoors at temperatures below 120°F (49°C). Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed. Store locked up.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: None established.

Ventilation: Use with adequate general or local exhaust ventilation to minimize exposure levels.

Respiratory Protection: If needed, an approved respirator with organic vapor cartridges may be used. Respirator selection and use should be based on contaminant type, form, and concentration. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

Skin Protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

Eye Protection: Wear chemical safety glasses/goggles.

Other Protective Measures: Prevent skin contact and contamination of personal clothing. An eye wash facility and washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and Chemical Properties

Appearance: Liquid, clear amber

Odor: Mild

Odor Threshold: No data available

pH: Not determined.

Melting Point: No data available

Boiling Point: No data available

Flash Point: >128°C

Evap. Rate: No data available

Upper/Lower Flammability Limits: No data available

Vapor Pressure: <0.675 mm Hg @ 20°C

Vapor Density: No data available

Relative Density: 1.01

Solubility: Nil to slightly soluble in water

Partition Coefficient: n-octanol/Water: No data available

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 130 cps @ 25°C

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Masses of ≥ 1 lb. (0.5 kg) plus aliphatic amine will cause irreversible polymerization with considerable heat build-up. Material will polymerize with sodium hydroxide.

Conditions to Avoid: Avoid excessive heat.

Incompatible Materials: Avoid contact with strong oxidizing agents, acids, amines, acid chlorides, and acid anhydrides.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and oxides of nitrogen.

11. Toxicological Information

Eye Contact: Causes serious eye damage.

Skin Contact: Harmful in contact with skin. Causes severe skin burns. May cause an allergic skin reaction.

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Ingestion: Harmful if swallowed.

Chronic Health Effects: May cause an allergic skin reaction.

Acute Toxicity Values: For Proprietary Amines:

Oral LD₅₀ (rat): 1, 080-3,069 mg/kg

For Epoxy Resin (CAS 25068-38-6):

Oral LD₅₀ (rat): 11,400 mg/kg

Dermal LD₅₀ (rabbit): 2,000 mg/kg

For Trade Secret Ingredients:

Oral LD₅₀ (rat): 1,716.2 mg/kg

Dermal LD₅₀ (rabbit): >1,000 mg/kg

Respiratory Sensitization: Components are not classified as respiratory sensitizers.

Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Components are not classified as mutagens.

Carcinogenicity: Components are not classified as carcinogens.

Reproductive Toxicity: Components are not classified as reproductive toxins.

Specific Target Organ Toxicity: May cause respiratory irritation, drowsiness, or dizziness.

12. Ecological Information

Ecotoxicity: Harmful to aquatic life with long lasting effects. Avoid release to the environment. Do not release into waterways.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. Disposal Considerations

Dispose according to local, state, and federal regulations. Do not dump in drains or sewers.

14. Transport Information

DOT: UN2735, Polyamines, Liquid, Corrosive, n.o.s

(polyoxypropylenediamine, epoxy resin), 8, III. LTD QTY if shipped in quantities of 5L (1.32 gal) or less.

IATA/IMDG: UN2735, Polyamines, Liquid, Corrosive, n.o.s

(polyoxypropylenediamine, epoxy resin), 8, III, MARINE POLLUTANT.

Emergency Shipping Information: Call CHEMTREC, 800-424-9300 or +1-703-527-3887

15. Regulatory Information

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements.

SARA TITLE III

Section 311/312: Acute/Chronic Health Hazard

Section 313 Toxic Chemicals: This product does not contain chemicals subject to SARA Title III Section 313 reporting requirements.

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All components in this product are listed on TSCA.

STATE REGULATIONS:

California Proposition 65: WARNING: This product can expose you to Epichlorohydrin, which is known to the State of California to cause cancer and/or reproductive harm. www.P65Warnings.ca.gov

16. Other Information

Training Advice: All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

Recommended Uses and Restrictions: This product is intended for industrial/professional use only.

SDS Revision Notes: GHS Format: September 14, 2022

Disclaimer: The information contained herein is considered accurate; however, Polytek® Development Corp. makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.