

1. Identification

Product Identifier: **PolyPoxy® 5003 Laminating Epoxy Hardener**
 Product Code(s): BC5003H
 Use: Epoxy Curing Agent. For Industrial/Professional use only.
 Manufacturer: Polytek Development Corp.
 55 Hilton Street, Easton, PA 18042
 Phone Number: 610-559-8620 (8 a.m. to 6:30 p.m. EST)
 Emergency Phone: CHEMTREC 800-424-9300 or +1 (703) 527-3887
 E-mail: sds@polytek.com

2. Hazards Identification

GHS Classification:

Skin Corrosion – Category 1
 Serious Eye Damage – Category 1
 Skin Sensitization – Category 1
 Reproductive Toxin – Category 2
 Germ Cell Mutagenicity – Category 2
 Specific Target Organ Toxicity Single Exposure – Category 3 (lungs)
 Hazardous to the Aquatic Environment – Short-Term Hazard Category 1
 Hazardous to the Aquatic Environment – Long-Term Hazard Category 1

Label Elements: Danger



Hazard Phrases:

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H341 Suspected of causing genetic defects.
 H361 Suspected of damaging fertility or the unborn child.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Phrases:

P203 Obtain, read and follow all safety instructions before use.
 P260 Do not breathe dusts or mists.
 P261 Avoid breathing vapors.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352 IF ON SKIN: Wash with plenty of 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.
 P318 IF exposed or concerned, get medical advice.
 P319 Get medical help if you feel unwell.
 P333+P317 If skin irritation or rash occurs: Get medical help.

P362+P364 Take off contaminated clothing and wash before reuse.
 P363 Wash contaminated clothing before use.
 P391 Collect spillage.
 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 part A before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Diethylenetriamine	111-40-0	1-2
Bisphenol A	80-05-7	1-2
Triethylenetetramine	112-24-3	40-50
o-Cresyl glycidyl ether	2210-79-9	4-5
Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentrations limits.		

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 present and easy to do. Get medical attention.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention. Launder clothing before re-use. Discard items that cannot be decontaminated.

Inhalation: If inhaled, remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms develop or persist.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical attention if you feel unwell.

Most Important Symptoms/Effects: Causes serious skin irritation and eye damage. May cause allergic skin reaction in sensitized persons. Symptoms include skin rash.

Indication of Immediate Medical Attention/Special Treatment: Serious skin irritation and eye damage, skin sensitization that may cause rash.

5. Fire-Fighting Measures

Extinguishing Media: Use foam, carbon dioxide, dry chemical, or water fog. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or eruption.

Specific Hazards: Not classified as flammable or combustible. Do not allow run-off from firefighting to enter drains or waterways.

Special Protective Equipment & Precautions for Fire-Fighters: Wear positive pressure, self-contained breathing apparatus and full-body protective clothing. Cool fire-exposed containers with water.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors. Ventilate area.

Methods and Materials for Containment and Cleanup: Do not discharge material into waterways. Cover with an inert absorbent material and collect into an appropriate container for disposal.

7. Handling and Storage

Safe Handling: Avoid contact with eyes, skin and clothing. When using, do not eat, drink, or smoke. Use with properly positioned local exhaust ventilation to prevent exposure. Wash thoroughly after handling. Keep container closed when not in use. Persons susceptible to skin sensitization problems should not use this product.

Safe Storage: Store indoors at temperatures between 55°F and 95°F. Store in original, unopened containers away from incompatible materials.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: For diethylene triamine (CAS 111-40-0):

ACGIH TLV 4.3 mg/m³

Ventilation: Use with properly positioned local exhaust ventilation to prevent exposure and maintain air levels below the occupational exposure limits.

Respiratory Protection: If ventilation is not adequate, use an approved respirator with organic vapor cartridges or supplied air. 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.

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

Eye Protection: Wear chemical safety goggles.

Other Protective Measures: Wear impervious clothing to 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, amber

Odor: Amine-like

Odor Threshold: No data available

pH: Not applicable

Melting Point/Freezing Point: No data available

Boiling Point: No data available

Flash Point: >199.9°F

Evap. Rate: No data available

Flamm. Limits: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: 1.10 g/cm³

Solubility: Insoluble in water

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

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 3,400-5,000 cps

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Avoid heat, hot surfaces, sparks, open flames, and other ignition sources.

Incompatible Materials: Avoid strong acids, strong bases, strong reducing agents, acid chlorides, acid anhydrides, hypochlorites, chloroformates, and oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxide, ammonia, nitric acid.

11. Toxicological Information

Eye Contact: Causes serious eye damage.

Skin Contact: Causes skin burns. Skin contact may cause an allergic skin reaction.

Inhalation: May cause respiratory irritation.

Ingestion: No data available.

Chronic Health Effects: No data available.

Acute Toxicity Values:

For Triethylenetetramine (CAS 112-24-3):

Oral LD₅₀ Rat: >5,000 mg/kg

Dermal LD₅₀ Rabbit: 1,470 mg/kg

Inhalation LD₅₀ Rabbit: >20,000 mg/L

For Diethylenetriamine (CAS 111-40-0):

Oral LD₅₀ Rat: 1,080 mg/kg

Dermal LD₅₀ Rabbit: 1,090 mg/kg

Inhalation LD₅₀ Rabbit: 0.30 mg/L

Respiratory Sensitization: This product is not considered a respiratory sensitizer.

Skin Sensitization: May cause allergic skin reaction.

Germ Cell Mutagenicity: Components are classified as mutagens.

Carcinogenicity: Product has not been tested for carcinogenicity. No ingredients are designated as carcinogens by NTP, IARC, or OSHA.

Reproductive Toxicity: Components are classified as reproductive toxins.

Specific Target Organ Toxicity: May cause respiratory irritation from single exposure.

12. Ecological Information

Ecotoxicity: Harmful to aquatic life with long-lasting effects.

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.

14. Transport Information

U.S. DOT: UN3082, Environmentally hazardous substance, liquid, n.o.s (fatty acid amidoamine resin and bisphenol A), 9, III, MARINE POLLUTANT

IMDG: UN3082, Environmentally hazardous substance, liquid, n.o.s (fatty acid amidoamine resin and bisphenol A), 9, III, MARINE POLLUTANT

AIR/IATA: UN3082, Environmentally hazardous substance, liquid, n.o.s (fatty acid amidoamine resin and bisphenol A), 9, 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 and Chronic Health Hazard

Section 313 Toxic Chemicals: The following component is subject to reporting requirements for SARA Section 313:

Bisphenol A (CAS 80-05-7)

Section 302 Extremely Hazardous Substances (TPQ): None

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

STATE REGULATIONS:

California Proposition 65: This product contains Bisphenol A (CAS 80-05-7), a chemical known to the State of California to birth defects or other 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 use only.

SDS Revision Notes: GHS Format, November 14, 2019

Disclaimer: The information contained herein is considered accurate; however, Polytek® 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.