

1. Identification

Product Identifier: **BP-2014 Laminating Epoxy Hardener
BP-2019 Laminating Epoxy Hardener**

Product Code(s): BC2014H

Use: Epoxy Curing Agent. For Industrial/Professional use only.

Manufacturer: Polytek Development Corp.
2140 Earlywood Drive, Franklin, IN 46131

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:

- Acute Toxicity (Dermal) – Category 4
- Skin Corrosion – Category 1B
- Skin Sensitization – Category 1
- Germ Cell Mutagenicity – Category 2
- Reproductive Toxin – Category 1B
- Hazardous to the Aquatic Environment – Acute Hazard Category 2
- Hazardous to the Aquatic Environment – Chronic Hazard Category 2

Label Elements: Danger



Hazard Phrases:

- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H360 Suspected of damaging fertility or the unborn child.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Phrases:

- P203 Obtain, read and follow all safety instructions before use.
- P261 Avoid breathing fumes or vapors.
- P264 Wash hands thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 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 victim to fresh air and keep at rest in a position 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.
- 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.
- P391 Collect spillage.

- P405 Store locked up.
- P501 Disposal of contents/container to be specified in accordance with regulations.

Supplemental Information: Read and understand the hazard information on Part A before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Di-n-Butyl Phthalate	84-74-2	0-10
Triethylenetetramine	112-24-3	50-60
O-Cresyl glycidyl ether	2210-79-9	30-40

Exact concentrations are withheld as trade secret. Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentration limits.

4. First-Aid Measures

Eye Contact: Rinse thoroughly with water for 20 minutes, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation develops and persists.

Skin Contact: Wash contact area thoroughly with soap and water for 20 minutes. Take off contaminated clothing and shoes. Get medical attention if irritation develops and persists. Laundry clothing before reuse. Discard clothing that cannot be decontaminated.

Inhalation: If breathing is difficult, remove person to fresh air. If experiencing difficulty breathing, call a doctor.

Ingestion: If swallowed, rinse mouth. Do not induce vomiting.

Most Important Symptoms/Effects: Skin disorders, allergies, adverse skin effects such as rash, irritation, or corrosion.

Indication of Immediate Medical Attention/Special Treatment: Get emergency medical help if in contact with skin and/or eyes.

5. Fire-Fighting Measures

Extinguishing Media: Carbon dioxide, dry chemical, alcohol-resistant foams, dry sand or limestone powder.

Specific Hazards: Not classified as flammable or combustible. May generate ammonia or toxic nitrogen oxide gases in fire conditions. Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes.

Special Protective Equipment and Precautions for Fire-Fighters: Wear SCBA & full-body protective suit.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Use SCBA and chemically protective clothing. Clear unnecessary, unprotected personnel from the area.

Methods and Materials for Containment and Cleanup: Contain spill and prevent/minimize release to the environment. Collect and containerize material for disposal.

7. Handling and Storage

Safe Handling: Avoid contact with eyes and skin. Use in a ventilated area. Wash hands after handling.

Safe Storage: Keep containers tightly closed in a dry, well-ventilated area.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: For Di-n-Butyl Phthalate (CAS 84-74-2):

OSHA PEL	5 mg/m ³ TWA
ACGIH TLV	5 mg/m ³ TWA

Ventilation: Use with adequate natural or explosion-proof general or local exhaust ventilation to minimize exposure levels.

Respiratory Protection: If needed, a NIOSH-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.

Skin Protection: Wear impervious clothing and 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. Wash hands at the end of each work shift and before eating, smoking or using the toilet. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and Chemical Properties

Appearance: Liquid

Odor: No data available.

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: No data available

Flash Point: No data available

Evaporation Rate: No data available

Flammable Limits: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: No data available

Solubility: No data available

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

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: No data available

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available

Incompatible Materials: Organic acids, mineral acids, oxidizing agents, nitrous acid and other nitrosating agents. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. N-Nitrosamines, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

Hazardous Decomposition Products: Nitric acid, ammonia, nitrogen oxides, carbon monoxide, carbon dioxide, nitrosamine,

11. Toxicological Information

Eye Contact: Causes serious eye damage.

Skin Contact: Causes severe skin burns. May cause allergic skin reaction.

Inhalation: No data available.

Ingestion: No data available.

Chronic Health Effects: Allergic skin reaction.

Acute Toxicity Values: For Di-n-Butyl Phthalate (CAS 84-74-2):

Oral LD₅₀ (rat): 8,000 mg/kg

Dermal LD₅₀ (rabbit): 20,860 mg/kg

Inhalation LC₅₀ (rat): 4,250 mg/kg

For Triethylenetetramine (CAS 112-24-3):

Oral LD₅₀ (rat): 2,500 mg/kg

Dermal LD₅₀ (rabbit): 550 mg/kg

For [[(2-Methylphenoxy)methyl]oxirane] (CAS 2210-79-9):

Oral LD₅₀ (rat): 4,000 mg/kg

Inhalation LC₅₀ (rat): 6.09 mg/L 4 hr

Germ Cell Mutagenicity: Product contains [[(2-Methylphenoxy)methyl]oxirane] (CAS 2210-79-9), a chemical suspected of causing genetic defects.

Carcinogenicity: Relevant components are not listed as known or suspected carcinogens by NTP, IARC or OSHA.

Reproductive Toxicity: Product contains Di-n-Butyl Phthalate (CAS 84-74-2), a chemical suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity: Relevant components are not known or suspected toxins to specific target organs.

12. Ecological Information

Ecotoxicity: Toxic to aquatic life with long lasting effects. Do not release into waterways.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: Not expected to migrate.

13. Disposal Considerations

Dispose according to local, regional and national regulations.

14. Transport Information

DOT: UN1760, Corrosive, liquid, n.o.s. (triethylenetetramine), 8, II, MARINE POLLUTANT

IMDG: UN1760, Corrosive, liquid, n.o.s. (triethylenetetramine), 8, II, MARINE POLLUTANT

IATA: UN1760, Corrosive, liquid, n.o.s. (triethylenetetramine), 8, II, 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: Di-n-Butyl Phthalate RQ is 10 lbs. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Acute and Chronic Health Hazard
Section 313 Toxic Chemicals: Contains chemicals subject to SARA Title III Section 313 Reporting requirements:

Di-n-Butyl Phthalate (CAS 84-74-2) 0-10%

Section 302 Extremely Hazardous Substances (TPQ): None

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

STATE REGULATIONS:

California Proposition 65: WARNING: This product contains Di-n-Butyl Phthalate (CAS 84-74-2), a chemical known to the State of California to cause reproductive harm. www.P65Warnings.ca.gov

16. Other Information

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

Recommended Uses and Restrictions: Intended for industrial or professional use only.

SDS Revision Notes: GHS format December 30, 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.