

## 1. Identification

Product Identifier: **BE-290 Laminating Epoxy Resin**  
 Product Code(s): BC290R  
 Use: Epoxy resin for epoxy system.  
 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](mailto:sds@polytek.com)

## 2. Hazards Identification

### GHS Classification:

Skin Irritation – Category 2  
 Eye Irritation – Category 2A  
 Skin Sensitization – Category 1  
 Reproductive Toxin – Category 1B  
 Hazardous to the Aquatic Environment – Acute Hazard Category 2

Label Elements: Danger



### Hazard Phrases

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H360 May damage fertility or the unborn child.  
 H401 Toxic to aquatic life.

### Precautionary Phrases

P203 Obtain, read and follow all safety instructions before use.  
 P261 Avoid breathing vapors.  
 P264 Wash 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.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P318 IF exposed or concerned, get medical advice.  
 P332+P317 If skin irritation occurs: Get medical help.  
 P333+P317 If skin irritation or rash occurs: Get medical help.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 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 curative before using.

## 3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Propane, 2,2-bis[p(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	80-90
Di-n-Butyl Phthalate	84-74-2	10-20
Other ingredients or exact concentrations are withheld as trade secret or are not classified as hazardous.		

## 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 if irritation persists.  
**Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation persists.  
**Inhalation:** Remove person to fresh air. Get medical attention if symptoms persist.  
**Ingestion:** Do not induce vomiting. Rinse mouth. Get medical attention.  
**Most Important Symptoms/Effects:** May cause an allergic skin reaction.  
**Indication of Immediate Medical Attention/Special Treatment:** Treat symptoms.

## 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.

## 8. Exposure Controls/Personal Protection

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

OSHA PEL 5 mg/m<sup>3</sup> TWA  
 ACGIH 5 mg/ m<sup>3</sup> TLV

For silicone dioxide, chemical prepared (CAS 112945-52-5):

OSHA PEL 6 mg/m<sup>3</sup> TWA

**Ventilation:** Use with adequate 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 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  
**Odor:** Epoxy  
**Odor Threshold:** No data available  
**pH:** Not determined  
**Melting Point:** No data available  
**Boiling Point:** No data available  
**Flash Point:** No data available  
**Evap. Rate:** No data available  
**Upper/Lower Flammability Limits:** No data available  
**Vapor Pressure:** No data available  
**Vapor Density:** No data available  
**Relative Density:** No data available  
**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:** No data available

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive.  
**Chemical Stability:** Stable under recommended conditions.  
**Possibility of Hazardous Reactions:** Masses of  $\geq 1$  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, alkalis, amines, mercaptans.  
**Hazardous Decomposition Products:** Uncontrolled exothermic reaction of epoxy resin releases carbon monoxide, carbon dioxide, phenolics, and aldehydes.

## 11. Toxicological Information

**Eye Contact:** Causes serious eye irritation.  
**Skin Contact:** Causes skin irritation. May cause sensitization. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.  
**Inhalation:** Vapors from heated product may cause respiratory irritation.  
**Ingestion:** No data available.  
**Chronic Health Effects:** Allergic skin reaction.  
**Acute Toxicity Values:** No data available.  
**Respiratory Sensitization:** Components are not respiratory sensitizers.  
**Skin Sensitization:** Causes allergic skin reaction.  
**Germ Cell Mutagenicity:** Components are not mutagens.  
**Carcinogenicity:** This product does not contain chemicals suspected of causing cancer.  
**Reproductive Toxicity:** This product contains Di-n-Butyl Phthalate (CAS 84-74-2), a chemical suspected of damaging fertility or the unborn child.  
**Specific Target Organ Toxicity:** No data available.

## 12. Ecological Information

**Ecotoxicity:** No data available.  
**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

**U.S.:** UN 3082, Environmentally hazardous substance, liquid, n.o.s. (epoxy resin), 9, III. Not regulated as a hazardous material by US DOT in containers of 55-gal or less.

**International shipments:** UN3082, Environmentally hazardous substance, liquid, n.o.s. (epoxy resin), 9, III. Excepted from IMDG and IATA regulations in containers of 5 liters or less (see IATA SP A197 and IMDG 2.10.2.7).

**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 (CAS 84-74-2) RQ is 10lbs. Some states have more stringent reporting requirements.

### SARA TITLE III

**Section 311/312:** Acute and Chronic Health Hazard

**Section 313 Toxic Chemicals:** This product contains Di-n-Butyl Phthalate (CAS 84-74-2), a chemical 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 contains Di-n-Butyl Phthalate (CAS 84-74-2), a chemical known to the State of California to cause birth defects and/or reproductive harm.  
[www.P65Warnings.ca.gov](http://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 Classification, November 21, 2019

**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.