

1. Identification

Product Identifier: **PolyPoxy® 1010 Epoxy Resin
EpoxyBond Part A Epoxy Resin**

Product Code(s): 1010, EPOXBNDRESIN

Use: Epoxy resin for epoxy system.
For Industrial/Professional use only.

Manufacturer: Polytek Development Corp.
55 Hilton St., Easton, PA 18042 USA

Phone Number: +1 610-559-8620 (9 a.m. to 5 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 Irritation Category 2
Eye Irritation Category 2A
Skin Sensitizer Category 1
Aquatic Toxicity - Chronic Category 2

Label Elements: Warning



Hazard Phrases

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long-lasting effects.

Precautionary Phrases

P261 Avoid breathing vapors.
P264 Wash hands and contacted areas thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye protection.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P333 +313 If skin irritation or rash occurs: Get medical advice.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 +313 If eye irritation persists, Get medical attention.
P362 Take off contaminated clothing before reuse.
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 # EINECS #	GHS Classification	%
Bisphenol A/epichlorohydrin epoxy resin	25068-38-6 500-033-5 (NLP)	Skin Irrit. 2 Eye Irrit. 2A Skin Sensitizer 1 Aquatic Tox Chronic 2	80-100
C ₁₂ -C ₁₄ - Alkylglycidyl ether	68609-97-2 271-846-8	Skin Irrit. 2 Skin Sensitizer 1	0-20

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 and drink plenty of water. 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: 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.

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: Yellow liquid
Odor: Epoxy
Odor Threshold: No data available
pH: Not determined
Melting Point: No data available
Boiling Point: No data available
Flash Point: >150°C (302°F)
Evap. Rate: No data available
Upper/Lower Flammability Limits: No data available
Vapor Pressure: <0.03 mm Hg @ 25°C
Vapor Density: >1 (Air = 1)
Relative Density: 1.11-1.15 @ 25°C
Solubility: Nil to slightly soluble in water
Partition Coefficient: n-octanol/Water: 3 (log P_{ow})
Auto-Ignition Temp: No data available
Decomposition Temp: No data available
Viscosity: 1,000-14,500 cP @ 25°C

10. Stability and Reactivity

Reactivity: Not normally reactive.
Chemical Stability: Stable under recommended conditions. After prolonged storage, may crystallize.
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, 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, pain, redness.
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: Low toxicity.
Chronic Health Effects: Allergic skin reaction.
Acute Toxicity Values: Estimated Oral rat LD50 >5,000 mg/kg; Dermal rabbit LD50 >4,000 mg/kg.
Respiratory Sensitization: Components are not respiratory sensitizers.
Skin Sensitization: Causes allergic skin reaction.
Germ Cell Mutagenicity: Components are not mutagens.
Carcinogenicity: Components are not carcinogens.
Reproductive Toxicity: Components are not reproductive toxins.
Specific Target Organ Toxicity: Not classified based on available data.

12. Ecological Information

Ecotoxicity: Based on data for epoxy resin, product is classified as hazardous to the aquatic environment (Aquatic Toxicity - Chronic Category 2).
LC50 (fathead minnow) 3.1 mg/L/96 hr
EC50 (Daphnia magna) 3.6 mg/L/24 hr.
Persistence and Degradability: Not readily biodegradable.
Bioaccumulative Potential: Low potential to bioaccumulate.
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 5-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: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements.
SARA TITLE III
Section 311/312: Acute Health
Section 313 Toxic Chemicals: This product contains no 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 chemicals including 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: Updated Prop 65, August 30, 2018; New GHS SDS. Replaces SDS dated Aug. 9, 2011.
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.