SAFETY DATA SHEET

1. Identification

Product Identifier: AC-312 Epoxy Resin

Use: Epoxy Resin. For Industrial/Professional use only.

Manufacturer: BDC Epoxy Systems, Inc.

12903 Sunshine Ave.

Santa Fe Springs, CA 90670

Phone Number: 562-944-6177

Emergency Phone: CHEMTREC 800-424-9300 or +1 703-527-3887

E-mail: info@bdcepoxy.com

2. Hazards Identification

GHS Classification:

Skin Irritation – Category 2
Eye Irritation – Category 2A
Skin Sensitization – Category 1
Hazardous to the Aquatic Environment – Chronic Hazard Category 2

Label Elements: Warning



Hazard Statements

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

Precautionary Statements

P261	Avoid breathing fumes, vapors, mists, or sprays.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the work area.
P273	Avoid release to the environment.
P280	Wear protective gloves, eye protection, and face protection.
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.
P333+P317	If skin irritation or rash occurs: Get medical help.
P337+P317	If eye irritation persists: Get medical help.
P362+P364	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
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 Epoxy Hardener before using.

3. Composition / Information on Ingredients

Chemical Name	CAS #	%
Epoxy Resin	25068-38-6	80 – 100
Trade Secret Ingredients	Proprietary	3 – 7

The specific chemical identity of the Trade Secret Ingredients and exact concentrations are withheld as a trade secret in accordance with 29 CFR 1910.1200(i). 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, 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 develops or persists.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops or persists.

Inhalation: Remove person to fresh air. Get medical attention if symptoms develop or persist.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.

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. Dispose of in accordance with applicable local and federal environmental laws and regulations.

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 50–95°F (10–35°C) for best product performance. 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: Liquid, clear

Odor: Epoxy

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: >300 °C (estimated)

Flash Point: >200 °F (>93 °C) — Pensky-Martens Closed Cup (estimated)

Evap. Rate: No data available

Upper/Lower Flammability Limits: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: 1.15 g/cm³ @ 25 °C

Solubility: Negligible (insoluble)

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

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 10,000 – 12,000 cps @ 25 °C

10. Stability and Reactivity

Reactivity: Stable under normal conditions. Reacts exothermically with curing agents (amines, anhydrides, mercaptans).

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.

Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Inhalation: Vapors from heated product may cause respiratory irritation.

Ingestion: No data available.

Chronic Health Effects: May cause an allergic skin reaction.

Acute Toxicity Values: Not acutely hazardous.

Respiratory Sensitization: Components are not respiratory sensitizers.

Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Components are not mutagens.

Carcinogenicity: No component present at ≥0.1% is listed as a carcinogen by IARC, NTP, or OSHA. Contains trace residual epichlorohydrin, which is listed under California Proposition 65 (see Section 15).

Reproductive Toxicity: Components are not reproductive toxins.

Specific Target Organ Toxicity: No data available.

12. Ecological Information

Ecotoxicity: Toxic to aquatic life with long lasting effects (Aquatic Chronic 2). Bisphenol A diglycidyl ether: EC50 (Daphnia magna) = 1.8 mg/L.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Log Kow 2.6–3.8; potential for moderate bioaccumulation. BCF estimated <100 for formulated product.

Mobility in Soil: No data available.

13. Disposal Considerations

Do not dump to ground, sewers, or watercourses. Dispose according to local, state, and federal regulations.

For U.S.: Upon disposal, this product is not a RCRA hazardous waste (per 40 CFR 261).

14. Transport Information

DOT: Non-Bulk packages (<882 lb or <119 gal) are not regulated for transport. Bulk packages: UN3082, Environmentally hazardous substance, liquid, n.o.s. (epoxy resin), 9, III.

IATA/IMDG: UN3082, Environmentally hazardous substance, liquid, n.o.s. (epoxy resin), 9, III, MARINE POLLUTANT. Excepted from IATA and IMDG regulations if shipped in quantities of 5 L (1.32 gal) or less (see IATA A197 and IMDG 2.10.2.7).

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

15. Regulatory Information

OSHA HazCom 2012: This product is classified as hazardous per 29 CFR §1910.1200.

TSCA (US): All components are listed on the TSCA Chemical Substance Inventory.

CERCLA (Superfund): None of the components are listed as CERCLA hazardous substances at reportable quantities (verify current listings).

SARA Title III: Section 311/312 Hazard Categories: Skin corrosion or irritation; Serious eye damage or eye irritation; Respiratory or skin sensitization. Section 313: Not listed.

State Right-to-Know: NJ, MA, PA: Bisphenol A diglycidyl ether (25068-38-6) may be reportable. Check state-specific RTK requirements.

International: REACH: Substances registered or exempt as polymer. DSL (Canada): Components listed. AICS (Australia): Consult local regulations.

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: Intended for Industrial/Professional use only.

SDS Revision Notes: October 16, 2026; Revised: November 19, 2026

Disclaimer: The information contained herein is considered accurate; however, BDC Epoxy Systems, Inc. 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.