# SAFETY DATA SHEET

## 1. Identification

**Product Identifier:** AC-312 Epoxy Hardener

**Use:** Epoxy Curing Agent. 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:**

Acute Toxicity (Oral) – Category 4
Skin Corrosion – Category 1B
Eye Damage – Category 1
Skin Sensitization – Category 1
Reproductive Toxicity – Category 2
Hazardous to the Aquatic Environment – Acute Hazard Category 1
Hazardous to the Aquatic Environment – Chronic Hazard Category 1

**Label Elements: Danger**



**Hazard Statements**

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Precautionary Statements**

| | |
|---|---|
| P203 | Obtain, read, and follow all safety instructions before use. |
| P260 | Do not breathe mist, vapors, or spray. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink, or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
| 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. |
| P310 | Immediately call a POISON CENTER/doctor. |
| 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 | 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 hazards of the resin before use.

## 3. Composition / Information on Ingredients

| Chemical Name | CAS # | % |
|---|---|---|
| Phenol, 4-nonyl-, branched | 84852-15-3 | 30 – 60 |
| Polyoxypropylenetriamine | 39423-51-3 | 30 – 60 |
| Trade Secret Ingredient A | Proprietary | 3 – 7 |
| Trade Secret Ingredient B | Proprietary | 3 – 7 |
| Trade Secret Ingredient C | Proprietary | 1 – 5 |
| Trade Secret Ingredient D | Proprietary | 1 – 5 |
| Trade Secret Ingredient E | Proprietary | 0.1 – 1 |

*The specific chemical identities and exact concentrations of Trade Secret Ingredients A – E are withheld as a trade secret in accordance with 29 CFR 1910.1200(i). Hazards of all ingredients are reflected in this SDS. 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:** Immediately rinse thoroughly with water for at least 15 minutes, holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention immediately.

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

**Ingestion:** Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

**Most Important Symptoms/Effects:** Harmful if swallowed. Causes severe skin burns and serious eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.

**Indication of Immediate Medical Attention/Special Treatment:** Get immediate medical attention if swallowed, on skin, or in eyes.

## 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 eruption.

**Specific Hazards:** Not classified as flammable or combustible. Product will burn under fire conditions. Combustion may produce oxides of carbon and nitrogen, and ammonia.

**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:** Clear non-emergency 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 breathing fumes, vapors, mists, or sprays. Avoid contact with the 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. Do not use sodium nitrite or other nitrosating agents in formulations containing this product; suspected cancer-causing nitrosamines could be formed. Emergency showers and eye wash stations should be readily accessible.

**Safe Storage:** Store indoors at 50–95°F (10–35°C) for best product performance. Store locked up. 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 ventilation is inadequate, use a properly fitted, NIOSH-approved, air-purifying respirator with organic vapor cartridges. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

**Skin Protection:** Wear impervious gloves, such as butyl rubber or nitrile rubber, and protective clothing.

**Eye Protection:** Wear chemical safety goggles and a face shield.

**Other Protective Measures:** An eye wash facility and washing facility should be available in the work area. Avoid skin contact. Follow good Industrial Hygiene practices.

## 9. Physical and Chemical Properties

**Appearance:** Liquid, clear

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** Alkaline

**Melting Point:** No data available

**Boiling Point:** No data available

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

**Evap. Rate:** No data available

**Flammability Limits:** No data available

**Vapor Pressure:** No data available

**Vapor Density:** >1 (Air = 1)

**Relative Density:** approx. 0.97 (8.0–8.2 lb/gal) @ 25 °C

**Solubility:** No data available

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

**Auto-Ignition Temp:** No data available

**Decomposition Temp:** No data available

**Viscosity:** 1,600 – 1,650 cps @ 25 °C

## 10. Stability and Reactivity

**Reactivity:** No specific data is available for this product.

**Chemical Stability:** Stable under recommended conditions.

**Possibility of Hazardous Reactions:** No data available.

**Conditions to Avoid:** No data available.

**Incompatible Materials:** Reactive or incompatible with acids and epoxy resins. Slowly corrodes copper, aluminum, zinc, and galvanized surfaces. Do not use sodium nitrite or other nitrosating agents in formulations containing this product, as suspected carcinogenic nitrosamines could be formed. Also incompatible with oxidizing agents, organic acids, and reactive metals.

**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition should not occur.

## 11. Toxicological Information

**Eye Contact:** Causes serious eye damage.

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

**Inhalation:** May cause mild respiratory irritation.

**Ingestion:** Harmful if swallowed.

**Chronic Health Effects:** Suspected of damaging fertility or the unborn child (contains branched 4-nonylphenol).

**Acute Toxicity Values:** Phenol, 4-nonyl-, branched: Oral LD50 (rat) 1,246 mg/kg. Product (ATEmix, calculated): Oral 300 – 2,000 mg/kg (Category 4); Dermal >2,000 mg/kg (not classified).

**Respiratory Sensitization:** Components are not respiratory sensitizers.

**Skin Sensitization:** Contains amine curing agents, which may cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Components are not known mutagens.

**Carcinogenicity:** Components are not designated as carcinogens by NTP, IARC, or OSHA.

**Reproductive Toxicity:** Contains 4-nonylphenol, branched (CAS 84852-15-3), classified as a Category 2 reproductive toxicant — suspected of damaging fertility or the unborn child (H361).

**Specific Target Organ Toxicity:** No data available.

## 12. Ecological Information

**Ecotoxicity:** Very toxic to aquatic life with long lasting effects. Contains nonylphenol (M-factor 25). Do not release into waterways.

**Persistence and Degradability:** Not readily biodegradable.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

## 13. Disposal Considerations

Minimize waste generation. Dispose of with a licensed waste disposal contractor. Do not dispose of down the drain. Dispose according to local, state, and federal regulations.

## 14. Transport Information

**DOT:** UN2735, Amines, liquid, corrosive, n.o.s. (polyoxypropylenetriamine, nonylphenol), 8, III

**IATA/IMDG:** UN2735, Amines, liquid, corrosive, n.o.s. (polyoxypropylenetriamine, nonylphenol), 8, 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:** Components are not subject to this reporting requirement. Some states have more strict reporting requirements.

**SARA Title III Section 311/312:** Acute toxicity; Skin corrosion; Serious eye damage; Skin sensitization; Reproductive toxicity.

**Section 313 Toxic Chemicals:** This product contains chemicals subject to SARA Title III Section 313 reporting requirements: Phenol, 4-nonyl-, branched (CAS 84852-15-3): 30 – 60%.

**Section 302 Extremely Hazardous Substances (TPQ):** None.

**EPA Toxic Substances Control Act (TSCA) Status:** Components in this product are listed on TSCA.

STATE REGULATIONS:

**California Proposition 65:** No ingredient in this product requiring a warning under California Proposition 65 is present at a level that triggers the warning requirement. 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:** 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.