KIT OVERVIEW (A+B)

EPOXY 49 TM - 100% Solids High-Build Cycloaliphatic Epoxy (Part A & Part B)

Epoxy49 LLC · 1714 W 23rd St, Houston, TX 77008 · (346) 281-7132 · CHEMTREC 24-HR: 1-800-424-9300

SECTION 1 - IDENTIFICATION (29 CFR 1910.1200)

Product Identifier: EPOXY 49 TM - 100% Solids High-Build Cycloaliphatic Epoxy (Part A & Part B) | SKU: EP-49-CLR
Recommended Use: Two-component 100% solids structural concrete basecoat and 3D metallic flooring resin (2A:1B by volume).
Manufacturer / Supplier: Epoxy49 LLC · 1714 W 23rd St, Houston, TX 77008 · (346) 281-7132 · sales@epoxy49.com
24-Hour Chemical Emergency Phone: CHEMTREC 24-HR: 1-800-424-9300 (US & Canada) / +1-703-527-3887 (Intl).

SECTION 2 - HAZARD(S) IDENTIFICATION (OSHA HAZCOM 2012 / GHS REV. 7)

DANGER


GHS05 CORROSION


GHS07 EXCLAMATION


GHS09 ENVIRONMENT

* H314: Causes severe skin burns and serious eye damage (Part B Amine Hardener).
* H315 / H319: Causes skin irritation and serious eye irritation (Part A Epoxy Resin).
* H317: May cause an allergic skin reaction. H335: May cause respiratory tract irritation.
* H411: Toxic to aquatic life with long lasting effects.
* P260 / P280: Do not breathe mist or vapors. Wear >=8 mil nitrile gloves, protective clothing, and splash goggles.
* P303+P361+P353: IF ON SKIN (or hair): Remove contaminated clothing immediately. Rinse skin with water/shower.
* P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for 15+ minutes. Immediately call Poison Control/doctor.
* P273 / P501: Avoid release to environment. Dispose of uncured contents via licensed RCRA contractor.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY / COMPONENT	CAS REGISTRY NO.	WEIGHT %
Part A - Bisphenol-A / Epichlorohydrin Epoxy Resin	25068-38-6	78 - 90%
Part A - Alkyl (C12-C14) Glycidyl Ether Reactive Diluent	68609-97-2	10 - 22%
Part B - Isophoronediamine (Cycloaliphatic Polyamine)	2855-13-2	35 - 50%
Part B - Polyoxypropylenediamine / Benzyl Alcohol	9046-10-0 / 100-51-6	40 - 65%

SECTION 4 - FIRST-AID MEASURES

* Eye Contact: Immediately flush eyes with lukewarm water for 15+ minutes, lifting eyelids. Seek urgent medical care.
* Skin Contact: Remove contaminated clothing at once. Wash skin thoroughly with mild soap and water (never solvents).
* Inhalation / Ingestion: Move to fresh air. If swallowed, rinse mouth; do NOT induce vomiting. Call CHEMTREC 1-800-424-9300.

SECTION 5 - FIRE-FIGHTING MEASURES

* Foam, dry chemical, CO2, or water fog. Thermal decomposition may release COx, NOx, phenolics, and amines; wear full SCBA.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

* Isolate area, ventilate, don PPE, and dike spill with inert absorbent (vermiculite/sand). Never seal reacting A+B mass in drums.

SECTION 7 - HANDLING AND STORAGE

*** Mix 3 min @ 350 RPM and POUR IMMEDIATELY onto concrete slab in ribbons (bucket mass >200°F exotherm). Store 60°F-85°F.**

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (PEL / TLV)

* No OSHA PEL established for liquid epoxy resin; Benzyl Alcohol WEEL 10 ppm. Wear ANSI Z87.1 goggles, nitrile gloves & OV mask.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Part A: Clear viscous | Part B: Clear/amber	**Mix Ratio:**	2 Parts A : 1 Part B by Volume (3-Gal Kit)
Viscosity (72°F):	700 - 900 cps (mixed)	**Specific Gravity:**	Part A: 1.13 | Part B: 0.98
Flash Point:	> 200°F (> 93°C) Closed Cup	**Solids / VOC:**	100% Solids (D2697) | VOC < 10 g/L (EPA 24)

SECTION 10 - STABILITY AND REACTIVITY

* Stable when Part A & B stored separately at 60°F-85°F. Concentrated mixed mass in bucket causes rapid exothermic polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

* Oral LD50 (rat) >2,000 mg/kg (Part A); Dermal/Eye Cat. 1B corrosive (Part B). Skin sensitizer. IARC/NTP/OSHA Carcinogen: None.

SECTION 12 - ECOLOGICAL INFORMATION

* Uncured resin is toxic to aquatic life (96h LC50 Oncorhynchus mykiss: 1.5-3.6 mg/L). Fully cured monolithic film is inert.

SECTION 13 - DISPOSAL CONSIDERATIONS

* Dispose uncured Part A/B via licensed RCRA facility. Small properly mixed A+B residues cured thin (<1/4 in) are inert solid waste.

SECTION 14 - TRANSPORT INFORMATION (US DOT 49 CFR / IMDG / IATA)

*** US DOT 49 CFR Ground (Part A): Not Regulated for Domestic Ground Transport (Marine Pollutant >5L bulk/vessel only).**
*** US DOT 49 CFR Ground (Part B): UN2735, Amines, liquid, corrosive, n.o.s. (Isophoronediamine), Class 8, PG III (49 CFR 173.154 Limited Quantity <= 5.0 L inner).**
* Emergency Transport Response (49 CFR Sec. 172.604): CHEMTREC 24-HR: 1-800-424-9300.

SECTION 15 - REGULATORY INFORMATION (TSCA / SARA / 50-STATE VOC)

* TSCA 8(b): All components ACTIVE. SARA 311/312: Skin Corrosion/Irritation, Sensitization. SARA 313: None. 50-State VOC (<10 g/L).

SECTION 16 - OTHER INFORMATION, HMIS RATINGS & REVISION LOG

*** HMIS III Rating: Health: 3 | Flammability: 1 | Physical Hazard: 1 | PPE: H (Splash Goggles, Nitrile Gloves, Apron, OV Respirator)**
* Revision Date: November 2026 (Rev 2026.11) | Prepared By: Epoxy49 LLC · 1714 W 23rd St, Houston, TX 77008 · (346) 281-7132.
* Disclaimer: Data furnished in good faith per OSHA 29 CFR 1910.1200. Because substrate moisture and field execution are beyond manufacturer control, liability is limited to replacement of defective product.