PART A · RESIN

MVB 49 TM PART A - High-Density Moisture Barrier Epoxy Resin (Component A Only)

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: MVB 49 TM PART A - High-Density Moisture Barrier Epoxy Resin (Component A Only) | SKU: MVB-49-FAST-A
Recommended Use: Component A (Novolac/Bisphenol-F Barrier Resin) for MVB 49 ASTM E96 Class I moisture vapor barrier (mix 2A:1B).
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)

WARNING



GHS07 EXCLAMATION



GHS09 ENVIRONMENT

* H315: Causes skin irritation (Category 2).
* H317: May cause an allergic skin reaction (Category 1).
* H319: Causes serious eye irritation (Category 2A).
* H411: Toxic to aquatic life with long lasting effects (Category 2).
* P261 / P264: Avoid breathing mist or vapors. Wash hands and forearms thoroughly after handling.
* P280: Wear >=8 mil nitrile gloves, protective work clothing, and ANSI Z87.1 splash goggles.
* P302+P352 / P333+P313: IF ON SKIN: Wash with plenty of soap and water. Seek medical advice if rash develops.
* P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. P273/P501: Prevent environmental discharge.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY / COMPONENT	CAS REGISTRY NO.	WEIGHT %
Bisphenol-F / Epichlorohydrin Novolac-Modified Epoxy Resin	28064-14-4	50 - 65%
Bisphenol-A / Epichlorohydrin Epoxy Resin	25068-38-6	20 - 30%
Alkyl (C12-C14) Glycidyl Ether Hydrophobic Diluent	68609-97-2	10 - 20%

SECTION 4 - FIRST-AID MEASURES

* Eye Contact: Flush eyes immediately with lukewarm water for 15 minutes. Consult physician if redness or pain persists.
* Skin Contact: Remove contaminated clothing and wash skin thoroughly with mild soap and water.
* 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

* Flash Point >240°F (>115°C). Extinguish with dry chemical, foam, CO2, or water fog. Wear positive-pressure SCBA.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

* Absorb spill with dry sand, clay, or vermiculite and shovel into open-head recovery drums. Keep out of sewers.

SECTION 7 - HANDLING AND STORAGE

*** Store indoors at 60°F-80°F (freeze-sensitive crystallization below 50°F). Pre-stir Part A 60 sec before adding Part B.**

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

* OSHA PEL / ACGIH TLV: None established for liquid Bisphenol-F/A resins. Wear chemical goggles and nitrile gloves.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor:	Clear to slight-haze viscous liquid	**Component Role:**	Part A Barrier Resin (Mix 2A : 1B)
Viscosity @ 77°F:	1,600 - 2,100 cps (unmixed A)	**Specific Gravity:**	1.15 g/cm3 (9.60 lbs/gal)
Flash Point (PMCC):	> 240°F (> 115°C) Closed Cup	**Solids / VOC:**	100% Solids | VOC < 5 g/L

SECTION 10 - STABILITY AND REACTIVITY

* Chemically stable when stored unmixed. Rapid exotherm occurs if combined with Part B Mannich amine and left in container.

SECTION 11 - TOXICOLOGICAL INFORMATION

* Oral LD50 (rat) >2,000 mg/kg; Dermal LD50 >2,000 mg/kg. Skin/eye irritant (H315/H319) and skin sensitizer (H317). Non-carcinogenic.

SECTION 12 - ECOLOGICAL INFORMATION

* Uncured Bisphenol-F/A resin is toxic to aquatic life (LC50 96h Fish: 1.5-3.2 mg/L). Cured vapor-barrier film is inert.

SECTION 13 - DISPOSAL CONSIDERATIONS

* Dispose unmixed liquid residue via licensed industrial/hazardous waste facility per federal, state, and local rules.

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

*** US DOT 49 CFR Domestic Ground: NOT REGULATED FOR DOMESTIC GROUND TRANSPORT (Non-bulk <=119 gal; Marine Pollutant >5L bulk/vessel only).**
*** IMDG Ocean / IATA Air: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-F/A Epoxy Resin), Class 9, PG III (<=5.0 L inner SP A197 / IMDG 2.10.2.7).**
* Emergency Transport Response (49 CFR Sec. 172.604): CHEMTREC 24-HR: 1-800-424-9300.

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

* US EPA TSCA 8(b): All components ACTIVE. SARA 311/312: Skin/Eye Irritation, Sensitization. SARA 313: None. 50-State VOC (<5 g/L).

SECTION 16 - OTHER INFORMATION, HMIS RATINGS & REVISION LOG

*** HMIS III Rating: Health: 2 | Flammability: 1 | Physical Hazard: 0 | PPE: B (Safety Goggles & Chemical-Resistant Nitrile Gloves)**
* 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.