KIT OVERVIEW (A+B)

MVB 49 TM - Moisture Vapor Barrier 100% Solids Epoxy up to 25 lbs MVER (A & 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: MVB 49 TM - Moisture Vapor Barrier 100% Solids Epoxy up to 25 lbs MVER (A & B) | SKU: MVB-49-FAST
Recommended Use: High-density ASTM E96 Class I (<0.10 perms) hydrostatic moisture vapor remediation barrier up to 25 lbs MVER / 99% RH.
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


GHS08 HEALTH


GHS09 ENVIRONMENT

* H314: Causes severe skin burns and serious eye damage (Part B Mannich/Cycloaliphatic Amine).
* H315 / H317: Causes skin irritation and may cause an allergic skin reaction.
* H373: May cause damage to organs through prolonged or repeated exposure.
* H411: Toxic to aquatic life with long lasting effects.
* P260 / P280: Do not breathe vapor/mist. Wear heavy-duty nitrile/butyl gloves, long sleeves, and splash-proof eye shield.
* P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call CHEMTREC or Poison Control immediately.
* P305+P351+P338+P310: IF IN EYES: Flush with water for 15+ minutes removing contact lenses. Seek urgent medical attention.
* P273 / P501: Do not discharge into drains. Cure residual mass in thin film or dispose via licensed RCRA facility.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY / COMPONENT	CAS REGISTRY NO.	WEIGHT %
Part A - Bisphenol-F / Bisphenol-A Novolac Blend Resin	28064-14-4 / 25068-38-6	75 - 88%
Part A - Alkyl (C12-C14) Hydrophobic Reactive Diluent	68609-97-2	12 - 25%
Part B - Mannich Base / Isophoronediamine Polyamine	90-72-2 / 2855-13-2	55 - 75%
Part B - Polyoxypropylenediamine / Benzyl Alcohol / Salicylic	9046-10-0 / 100-51-6	25 - 45%

SECTION 4 - FIRST-AID MEASURES

* Eye Contact: Irrigate immediately with water for 15+ minutes lifting upper/lower lids. Obtain emergency ophthalmologic care.
* Skin Contact: Strip contaminated clothing immediately. Flush skin with water and mild soap for 15 minutes.
* Inhalation / Ingestion: Fresh air immediately. Do NOT induce vomiting if ingested; call CHEMTREC 1-800-424-9300.

SECTION 5 - FIRE-FIGHTING MEASURES

* Use alcohol-resistant foam, dry chemical, CO2, or water fog. Firefighters must wear positive-pressure SCBA and turnout gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

* Dike spill immediately with inert clay/sand. Fast reactive chemistry - never confine mixed A+B in closed pails.

SECTION 7 - HANDLING AND STORAGE

*** FAST POT LIFE (11-20 MIN): Mix 3 min @ 350 RPM and empty entire pail onto CSP 3 slab in ribbons immediately!**
Store 60°F-80°F.

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

* Benzyl Alcohol WEEL: 10 ppm TWA. Ensure cross-ventilation; wear splash goggles, >=8 mil nitrile/butyl gloves, and OV mask.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Part A: Clear-haze resin | Part B: Amber	**Mix Ratio:**	2 Parts A : 1 Part B by Volume (3-Gal Kit)
Viscosity (72°F):	1,200 - 1,500 cps (vapor barrier)	**Specific Gravity:**	Part A: 1.15 | Part B: 1.01
Flash Point:	> 205°F (> 96°C) Closed Cup	**Solids / VOC:**	100% Solids | VOC < 10 g/L | < 0.10 Perms

SECTION 10 - STABILITY AND REACTIVITY

* Stable separated. Combining A+B in mass triggers fast exothermic cross-linking (>220°F). Avoid strong acids and oxidizers.

SECTION 11 - TOXICOLOGICAL INFORMATION

* Corrosive amine hardener causes mucosal/dermal burns (H314) and allergic sensitization (H317). IARC/OSHA Carcinogens: None.

SECTION 12 - ECOLOGICAL INFORMATION

* Chronic aquatic toxicity Cat. 2 in uncured state (H411). Cured ASTM E96 vapor barrier film is chemically inert.

SECTION 13 - DISPOSAL CONSIDERATIONS

* Dispose uncured liquid via licensed hazardous waste contractor. Cured thin-film solid scrap is non-hazardous.

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, Mannich Polyamine), Class 8, PG III (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: Corrosion, Sensitization, STOT-RE. 50-State VOC Compliant (<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, Butyl/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.