PART B · HARDENER

MVB 49 TM PART B - High-Alkalinity Mannich / Cycloaliphatic Curing Agent (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: MVB 49 TM PART B - High-Alkalinity Mannich / Cycloaliphatic Curing Agent (Part B) | SKU: MVB-49-FAST-B
Recommended Use: Component B (Fast-Cure Moisture-Tolerant Mannich/Polyamine Hardener) for MVB 49 25-lb MVER 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)

DANGER


GHS05 CORROSION


GHS07 EXCLAMATION


GHS08 HEALTH


GHS09 ENVIRONMENT

* H302 + H312: Harmful if swallowed or in contact with skin (Acute Toxicity Category 4).
* H314 / H318: Causes severe skin burns and serious eye damage (Skin Corrosion Category 1B / Eye Damage Category 1).
* H317: 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 (Category 2).
* P260 / P280: Do not breathe vapors/mist. Wear heavy-duty butyl/nitrile gloves, coveralls, splash goggles, and face shield.
* P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call CHEMTREC 1-800-424-9300 or Poison Control.
* P303+P361+P353: IF ON SKIN (or hair): Remove all contaminated clothing immediately and flush skin with water for 15+ minutes.
* P305+P351+P338+P310: IF IN EYES: Irrigate continuously with water for 15+ minutes and obtain immediate medical treatment.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY / COMPONENT	CAS REGISTRY NO.	WEIGHT %
Mannich Base Modified Polyamine / 2,4,6-Tris(dimethylaminomethyl)phe	90-72-2 / 68413-28-5	30 - 45%
Isophoronediamine	2855-13-2	25 - 35%
Polyoxypropylenediamine	9046-10-0	10 - 20%
Benzyl Alcohol & Salicylic Acid Cure Accelerator	100-51-6 / 69-72-7	12 - 24%

SECTION 4 - FIRST-AID MEASURES

* Eye Contact: SEVERELY CORROSIVE! Flush eyes continuously with water for 20 minutes lifting lids. Transport to emergency care.
* Skin Contact: Immediately strip contaminated clothes/boots and wash thoroughly with mild soap and water for 15 minutes.
* Inhalation / Ingestion: Fresh air immediately. Do NOT induce vomiting if swallowed; call CHEMTREC 1-800-424-9300 at once.

SECTION 5 - FIRE-FIGHTING MEASURES

* Flash Point >205°F (>96°C). Extinguish with alcohol foam, dry chemical, CO2, or water fog. Wear positive-pressure SCBA.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

* Isolate area, wear full chemical-splash PPE, dike with dry sand/clay, and scoop into HDPE waste drums. Keep out of waterways.

SECTION 7 - HANDLING AND STORAGE

*** FAST EXOTHERM HARDENER: When mixed 2A:1B (11-20 min pot life), dump entire batch onto slab in ribbons immediately! Seal tightly.**

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

* Benzyl Alcohol WEEL: 10 ppm TWA. Ensure active ventilation; wear ANSI Z87.1 goggles + face shield, butyl/nitrile gloves, OV mask.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor:	Amber liquid, distinct amine odor	**Component Role:**	Part B MVB Hardener (Mix 2A : 1B)
Viscosity @ 77°F:	250 - 420 cps (unmixed B)	**Specific Gravity:**	1.01 g/cm3 (8.43 lbs/gal) | pH ~11.5
Flash Point (PMCC):	> 205°F (> 96°C) Closed Cup	**VOC Content:**	< 10 g/L (100% Reactive System)

SECTION 10 - STABILITY AND REACTIVITY

* Stable sealed at 60°F-77°F. Rapid exothermic cross-linking (>220°F) when left standing mixed with Epoxy Part A. Avoid strong acids.

SECTION 11 - TOXICOLOGICAL INFORMATION

* Oral LD50 (rat) ~1,050 mg/kg. Corrosive dermal/eye burns (H314), skin sensitizer (H317), repeated-dose STOT Cat. 2 (H373).

SECTION 12 - ECOLOGICAL INFORMATION

* Toxic to aquatic organisms with long-lasting effects (H411). Prevent uncured amine runoff into storm sewers or groundwater.

SECTION 13 - DISPOSAL CONSIDERATIONS

* Dispose uncured liquid Part B via licensed RCRA hazardous waste contractor in compliance with 40 CFR 261.

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

*** US DOT 49 CFR Ground: UN2735, Amines, liquid, corrosive, n.o.s. (Isophoronediamine, Mannich Base Polyamine), Class 8, PG III.**
*** 49 CFR 173.154 Limited Quantity Exception: Eligible for Ground Limited Quantity when inner packaging <= 5.0 L (1-Gal / 3.78 L pail in <=30 kg carton). 5-Gal pails ship Class 8 Hazmat LTL.**
* 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: Corrosion, Acute Toxicity, Sensitization, STOT-RE. SARA 313: None.

SECTION 16 - OTHER INFORMATION, HMIS RATINGS & REVISION LOG

*** HMIS III Rating: Health: 3* | Flammability: 1 | Physical Hazard: 0 | PPE: H (Splash Goggles, Face Shield, Butyl/Nitrile Gloves, 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.