KIT OVERVIEW (A+B)

POLYASPARTIC 49 TM - UV-Stable Aliphatic Polyaspartic Topcoat (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: POLYASPARTIC 49 TM - UV-Stable Aliphatic Polyaspartic Topcoat (Part A & Part B) | SKU: PA-49-FAST
Recommended Use: Rapid-cure high-solids (98-99%) UV-stable, 140°F hot-tire & chemical resistant aliphatic topcoat (1A: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


GHS07 EXCLAMATION


GHS08 HEALTH


GHS09 ENVIRONMENT

* H317: May cause an allergic skin reaction (Part A Aspartic Ester & Part B HDI Homopolymer).
* H319: Causes serious eye irritation. H332: Harmful if inhaled (aerosol/vapor).
* H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled (Part B Aliphatic Polyisocyanate).
* H335 / H412: May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
* P261 / P271: Avoid breathing vapors. Use in well-ventilated spaces or wear NIOSH organic-vapor respirator (OV/P100).
* P280 / P284: Wear nitrile gloves, splash goggles, and respiratory protection where ventilation is restricted.
* P304+P340 / P342+P311: IF INHALED: Move to fresh air. If respiratory symptoms occur, call Poison Center or doctor.
* P403+P233: Store in tightly closed metal F-style containers in dry 60°F-80°F area (Part B reacts with moisture).

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY / COMPONENT	CAS REGISTRY NO.	WEIGHT %
Part A - Polyaspartic Acid Ester (Secondary Aliphatic Diamine)	136210-30-5	88 - 96%
Part A - HALS UV Light Stabilizer & Leveling Additive	41556-26-7	2 - 6%
Part B - Aliphatic Hexamethylene Diisocyanate (HDI) Homopolymer	28182-81-2	98.5 - 99.9%
Part B - Monomeric Hexamethylene-1,6-Diisocyanate	822-06-0	< 0.10%

SECTION 4 - FIRST-AID MEASURES

* Eye Contact: Rinse cautiously with water for 15 minutes, removing contact lenses. Seek medical attention if irritation persists.
* Skin Contact: Wipe excess immediately and wash thoroughly with soap and water. Launder contaminated clothing.
* Inhalation / Ingestion: Move to fresh air immediately; seek care for asthma/wheezing. Do NOT induce vomiting if swallowed.

SECTION 5 - FIRE-FIGHTING MEASURES

* Dry chemical, CO2, or foam (avoid direct water stream into open Part B tins due to CO2 gas evolution). Wear full SCBA.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

* Ventilate area and absorb spill with dry inert material. Leave Part B waste loosely covered for 48h to vent trace CO2 before sealing.

SECTION 7 - HANDLING AND STORAGE

*** Mix 1A:1B for 2 min @ 300-350 RPM; roll at 6-12 wet mils max. Reseal Part B metal F-tin immediately to block humidity.**

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

* HDI Homopolymer guideline: 0.5 mg/m3 TWA; Monomeric HDI (<0.1%) ACGIH TLV: 0.005 ppm. Mandatory NIOSH OV/P100 mask indoors.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Part A: Water-clear | Part B: Water-clear	**Mix Ratio:**	1 Part A : 1 Part B by Vol/Wt (2-Gal Tin Kit
Viscosity (72°F):	400 - 600 cps (mixed)	**Specific Gravity:**	Part A: 1.07 | Part B: 1.13
Flash Point:	> 212°F (> 100°C) Closed Cup	**Solids / VOC:**	98-99% Solids | VOC < 50 g/L (SCAQMD 1113)

SECTION 10 - STABILITY AND REACTIVITY

* Stable dry at 60°F-80°F. Part B reacts slowly with water/moisture releasing CO2 gas (pressure hazard in sealed wet tins).

SECTION 11 - TOXICOLOGICAL INFORMATION

* HDI homopolymer may induce respiratory/dermal sensitization (H334/H317). Monomeric HDI <0.1%. Non-carcinogenic.

SECTION 12 - ECOLOGICAL INFORMATION

* Harmful to aquatic organisms (H412). Part B hydrolyzes with water at interface to form inert insoluble polyurea crust.

SECTION 13 - DISPOSAL CONSIDERATIONS

* Dispose uncured liquid via licensed RCRA facility. Fully reacted 1A:1B thin-film solid is non-hazardous.

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

*** US DOT 49 CFR Ground (Part A): Not Regulated as Dangerous Goods for US DOT Ground, IMDG, or IATA.**
*** US DOT 49 CFR Ground (Part B): Not Regulated as Corrosive/Flammable (Non-DG Ground; <0.1% monomeric HDI, Flash Point >212°F).**
* 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: Respiratory/Skin Sensitization, Acute Inhalation. 50-State VOC (<50 g/L).

SECTION 16 - OTHER INFORMATION, HMIS RATINGS & REVISION LOG

*** HMIS III Rating: Health: 2* (Respiratory Sensitizer) | Flammability: 1 | Physical Hazard: 1 | PPE: H (NIOSH OV/P100 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.