

Safety Data Sheet

Section 1. Identification

Product Name: Z-SEAL ULV Part B | Formula Code: 5004A



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Revision Date: May 13th, 2026
Version 1.1 (Updated for ~25%
Xylene content)

Recommended Use: Part B (hardener/curing agent) of a two-component low-viscosity epoxy healer/sealer. Mix 1:1 by volume with Part A.

Restrictions on Use: Do not thin with solvents. Not for consumer use.

Section 2. Hazard(s) Identification

GHS Classification (OSHA HCS 2012):

- Flammable Liquid Category 3 (driven by ~25% Xylene)
- Acute Toxicity (Oral) Category 4
- Acute Toxicity (Inhalation) Category 4
- Skin Corrosion/Irritation Category 2
- Serious Eye Damage/Eye Irritation Category 2A
- Skin Sensitization Category 1
- Reproductive Toxicity Category 2 (Nonyl phenol contribution)
- Specific Target Organ Toxicity – Single Exposure Category 3 (respiratory irritation, drowsiness/dizziness)
- Specific Target Organ Toxicity – Repeated Exposure Category 2
- Aquatic Acute/Chronic Toxicity (various categories)

Signal Word: **WARNING / DANGER** (depending on exact amine content)

Hazard Statements:

- H226: Flammable liquid and vapor.
- H302 + H332: Harmful if swallowed or inhaled.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H335 + H336: May cause respiratory irritation and drowsiness/dizziness.
- H361: Suspected of damaging fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H400/H410/H412/H413: Very toxic / harmful to aquatic life with long lasting effects.

Precautionary Statements:

Keep away from heat/sparks/open flames. Use only in well-ventilated areas. Wear protective gloves, clothing, eye/face protection. Avoid breathing vapors.

Section 3. Composition

Name	CAS Number	% by Weight	GHS Hazards
Xylene (mixed isomers)	1330-20-7	~25%	Flam. Liq. 3, Acute Tox. 4, Skin/Eye Irrit. 2, STOT SE 3
Nonyl phenol (and/or blends)	84852-15-3 / others	50–70% (typical range)	Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1, Repr. 2, Aquatic Acute 1/Chronic 2-4
Polyoxypropylenediamine / other amines	9046-10-0 / 15520-10-2	10–30%	Acute Tox. 4, Skin Corr./Irrit., Sensitization
Accelerators / other additives (e.g., tris-dimethylaminomethyl phenol)	Various	1–10%	Corrosive/Irritant, Sensitizer
Blue dye or minor components	Proprietary	<1%	Minor

Section 4. First-Aid Measures

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses. Seek medical attention.

Skin Contact: Wipe off, wash with soap and water. Remove contaminated clothing. Seek medical attention if irritation or rash develops.

Inhalation: Move to fresh air. Provide oxygen if breathing difficult. Seek medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth. Seek immediate medical attention.

Section 5. Firefighting Measures

Flash Point: Expected <100°F / <38°C (due to 25% Xylene).

Suitable Extinguishing Media: Foam, CO₂, dry chemical, water fog.

Specific Hazards: Flammable liquid and vapor. Toxic fumes (CO, NO_x, amines) may be released.

Protective Equipment: SCBA and full protective clothing.

Section 6. Accidental Release Measures

Eliminate ignition sources. Ventilate area. Contain with inert absorbent. Dispose as hazardous waste. Prevent environmental release.

Section 7. Handling and Storage

Handling: Ground containers. Use explosion-proof equipment. Avoid skin/eye contact and vapor inhalation. **Storage:** Cool (50–95°F), well-ventilated area, away from heat, sparks, and Part A (exothermic reaction). Keep tightly closed.

Section 8. Exposure Controls/Personal Protection

Exposure Limits (Xylene): OSHA PEL 100 ppm; ACGIH TLV 20 ppm (TWA), 150 ppm (STEL).

Engineering Controls: Local exhaust or general dilution required.

PPE: Chemical-resistant gloves (nitrile), safety goggles/face shield, protective clothing, respirator if ventilation inadequate.

Section 9. Physical & Chemical Properties

Appearance: Light amber liquid

Odor: Aromatic solvent + amine odor

Specific Gravity: ~0.95–1.0 (estimated)

VOC Content: High due to 25% Xylene

Flash Point: <100°F (Xylene-driven)

Section 10. Stability and Reactivity

Reacts exothermically with Part A (epoxy resin). Incompatible with strong oxidizers/acids.

Section 11. Toxicological Information

(Refer to prior version – amplified solvent effects from Xylene: CNS depression, irritation, aquatic toxicity.)

Section 12. Ecological Information

(Refer to prior version – amplified solvent effects from Xylene: CNS depression, irritation, aquatic toxicity.)

Section 13. Disposal Considerations

(Refer to prior version – amplified solvent effects from Xylene: CNS depression, irritation, aquatic toxicity.)

Section 14. Transport Information

DOT:

UN 1993 – Flammable liquids, n.o.s. (Xylene, amines)

Class 3 (Flammable Liquid)

Packing Group III

Marine Pollutant: Yes

Note: Due to 25% Xylene, Part B must ship as a Flammable Liquid (Class 3) when shipped separately. Confirm exact flash point for classification.

Section 15. Regulatory Information

- TSCA: Compliant
- SARA 313: Xylene reportable.
- California Prop 65: Warnings likely for Xylene and Nonyl phenol.

Section 15. Other Information

This SDS has been revised to reflect the ~25% Xylene content in Part B, which drives flammable classification and increases solvent-related hazards. Always pair with the corresponding Part A SDS. For laboratory flash point testing, regulatory compliance, or formulation verification, contact ZIIS technical support at sales@ziis.com.

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