

# Safety Data Sheet

## Section 1. Identification

Product Name: Z-SEAL ULV Part A (Epoxy Resin Component) | Formula Code: 5004A



ZIIS INC  
3609 S 700 W  
South Salt Lake, UT 84119  
United States  
<https://ziis.com>  
(801) 265-9456

Emergency Contact: PERS  
PERS Contract#: 12839  
US 47/7: (800) 728-2482  
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Version 1.0

**Recommended Use:** Component A of a two-component, ultra-low viscosity epoxy healer/sealer for concrete crack repair, bridge decks, parking structures, and structural bonding. Mix 1:1 by volume with Part B.

**Restrictions on Use:** Professional use only. Do not thin. Not for consumer use.

## Section 2. Hazard(s) Identification

### GHS Classification (OSHA HCS 2012):

- Flammable Liquid Category 3 (H226) – due to Xylene
- Skin Corrosion/Irritation Category 2 (H315)
- Serious Eye Damage/Eye Irritation Category 2 (H319)
- Skin Sensitization Category 1 (H317) – Epoxy resins
- STOT-SE Category 3 (H335/H336) – Respiratory irritation, drowsiness
- Acute Toxicity Category 4 (H302/H312/H332) – Xylene
- Aquatic Chronic Category 2 (H411)

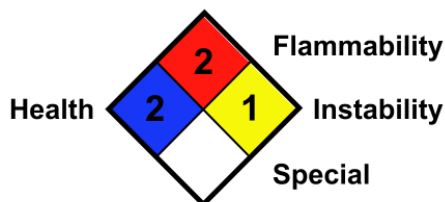
**Signal Word:** WARNING

**Hazard Statements:** H226, H315, H319, H317, H335, H336, H412

**HMIS & NFPA Ratings (estimated for this formulation):**

HEALTH	2
FLAMMABILITY	2
REACTIVITY	1
PERSONAL PROTECTION	

- 4. Severe Hazard
- 3. Serious Hazard
- 2. Moderate Hazard
- 1. Slight Hazard
- 0. Minimal Hazard



**PPE Recommendation:** B (Safety glasses + chemical-resistant gloves). Use face shield for splash potential.

## Section 3. Composition / Information on Ingredients

*Exact formulation percentages by weight (current as of June 2026):*

Ingredient (CAS)	% by Wt	GHS Hazards
Bisphenol A diglycidyl ether epoxy resin (DER 331 type, CAS 25068-38-6)	60-80%	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2
Alkyl (C12-C14) glycidyl ether (Heloxy 8 type, CAS 68609-97-2)	1-10%	Skin Irrit. 2, Skin Sens. 1
Desmocap 11A (blocked isocyanate / urethane polymer)	1-10%	Potential sensitizer (trace)
Xylene (mixed isomers, CAS 1330-20-7)	<20%	Flam. Liq. 3, Acute Tox. 4, Skin/Eye Irrit. 2, STOT SE 3
Ingredient (CAS)	% by Wt	GHS Hazards

## Section 4. First-Aid Measures

**Eye Contact:** Rinse 15+ min with water. Remove lenses. Seek medical attention.

**Skin Contact:** Wash with soap/water. Remove contaminated clothing. Seek attention if rash/irritation.

**Inhalation:** Move to fresh air. Provide oxygen if needed. Seek medical attention.

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

**Most Important Symptoms:** Do NOT induce vomiting. Rinse mouth. Seek immediate medical attention.

## Section 5. Firefighting Measures

**Extinguishing Media:** Foam, CO<sub>2</sub>, dry chemical, water fog.

**Specific Hazards:** Flammable vapors. Combustion may produce CO, CO<sub>2</sub>, NO<sub>x</sub>, and other toxic fumes.

**Protective Equipment:** SCBA + full protective gear.

## Section 6. Accidental Release Measures

Eliminate ignition sources. Ventilate. Contain with inert absorbent (sand/vermiculite). Prevent entry into waterways. Dispose as hazardous waste.

## Section 7. Handling and Storage

Use in well-ventilated areas. Avoid skin/eye contact and inhalation. Ground containers. Store 50–95°F in original containers, away from heat, sparks, strong oxidizers, and Part B. Keep tightly closed

## Section 8. Exposure Controls/Personal Protection

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

**Engineering:** Local exhaust ventilation required.

**PPE:** Nitrile gloves, safety goggles/face shield, protective clothing. Respirator if ventilation inadequate.

## Section 9. Physical & Chemical Properties

**Appearance:** Blue liquid

**Odor:** Aromatic/solvent

**Specific Gravity:** ~1.09 (estimated; higher than prior version due to increased solids)

**Viscosity:** Ultra-low (ULV grade)

**Boiling Point:** Varies (Xylene ~138–144°C)

**Flash Point:** <140°F (estimated; confirm with lab testing)

**% Solids:** ~81.5% by weight

## Section 10. Stability and Reactivity

Stable under normal conditions. Reacts exothermically with Part B (amines). Incompatible with strong oxidizers. Hazardous polymerization possible if mixed improperly or in large masses.

## Section 11. Toxicological, Ecological, Disposal, Transport, Regulatory

**Toxicological:** Primary hazards: skin/eye irritation, epoxy sensitization, xylene CNS/respiratory effects. Not classified as carcinogen in this formulation context.

**Ecological:** Harmful to aquatic life with long-lasting effects. Prevent release.

**Disposal:** Hazardous waste. Cure with Part B before disposal when possible. Follow federal/state/local regulations.

**Transport (DOT):** UN 1993, Flammable Liquid n.o.s. (contains Xylene), Class 3, PG III. Marine pollutant considerations apply.

**Regulatory:** TSCA compliant. SARA 313: Xylene reportable. CA Prop 65: May contain trace chemicals – consult for specifics.

### NOTICE TO READER

*This SDS is prepared for development purposes based on the current adjusted formulation (18.5% xylene by weight). Final commercial SDS requires laboratory verification (flash point, exact SG, full toxicological testing). The information is believed accurate at the date of preparation. It is the user's responsibility to determine suitability and follow all applicable regulations. ZIIS INC assumes no liability for misuse or failure to follow label instructions.*

Contact: sales@ziis.com | (801) 265-9456

Revision: June 9, 2026 | Version 2.0 (18.5% Xylene)