

Safety Data Sheet

Section 1. Identification

Product Name: Z-SEAL ULV Part A | 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
Revision Date: May 13, 2026
Version 1.0

Recommended Use: Component A of a two-component, low-viscosity epoxy healer/sealer for concrete crack sealing, bridge decks, parking structures, etc. For professional use only. Mix 1:1 by volume with Part B

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 (due to Xylene)
- Skin Corrosion/Irritation Category 2
- Serious Eye Damage/Eye Irritation Category 2
- Skin Sensitization Category 1
- Specific Target Organ Toxicity – Single Exposure Category 3 (respiratory irritation, CNS effects)
- Acute Toxicity (Oral/Dermal/Inhalation) Category 4 (Xylene)
- Aquatic Chronic Hazard Category 2

Signal Word: WARNING

Hazard Statements:

- H226: Flammable liquid and vapor.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H317: May cause an allergic skin reaction.
- H335: May cause respiratory irritation.
- H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention: Keep away from heat/sparks/open flames. No smoking. Avoid breathing vapors. Wear protective gloves, clothing, eye/face protection. Use only outdoors or in well-ventilated area.

Response: IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Disposal: Dispose of contents/container in accordance with local regulations.

Section 3. Composition

Name	% by Weight	GHS Hazards
Reaction product: Bisphenol A diglycidyl ether / epoxy resin (DER 331 type, CAS 25068-38-6)	~70.6%	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2
Alkyl (C12-C14) glycidyl ether (Heloxy 8 / Epoxide 8 type, CAS ~68609-97-2)	~5.3%	Skin Irrit. 2, Skin Sens. 1
Desmocap 11A (blocked isocyanate polymer)	~0.8%	May contain traces causing sensitization; consult specific SDS
Xylene (mixed isomers, CAS 1330-20-7)	~23.3%	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3
Blue Dye Solution (20% in Benzyl Alcohol)	<0.1%	Minor irritant contribution

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.

Most Important Symptoms: Skin/eye irritation, allergic reactions, respiratory irritation.

Section 5. Firefighting Measures

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

Specific Hazards: Flammable vapors. Combustion may produce CO, CO₂, NO_x, and other toxic fumes.

Protective Equipment: Self-contained breathing apparatus and full protective gear.

Section 6. Accidental Release Measures

Contain spill. Absorb with inert material (sand, vermiculite). Ventilate area. Avoid ignition sources. Dispose as hazardous waste. Prevent entry into waterways

Section 7. Handling and Storage

Use in well-ventilated areas. Avoid skin/eye contact and inhalation of vapors. Store between 50–95°F in original containers, away from heat, sparks, and incompatibles (strong oxidizers, acids). Keep containers 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 ventilation.

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

Section 9. Physical & Chemical Properties

Appearance: Blue liquid
Odor: Aromatic/solvent
Specific Gravity: ~1.068
Viscosity: Low (ULV grade)

Boiling Point: Varies (Xylene ~138–144°C)
Flash Point: <140°F (estimated due to Xylene)
% Solids: ~76.7% by weight

Section 10. Stability and Reactivity

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

Section 11. Toxicological Information

Primary hazards from components: skin sensitization (epoxies), irritation, and solvent effects (Xylene – CNS depression at high exposure). Not classified as carcinogen by IARC in this formulation context, but epoxies have been studied

Section 12. Ecological Information

Toxic to aquatic life with long-lasting effects (epoxy resins). Prevent release to environment.

Section 13. Disposal Considerations

Dispose of as hazardous waste per federal, state, and local regulations. Cure waste with Part B before disposal if possible.

Section 14. Transport Information

UN 1993, Flammable Liquid, n.o.s. (contains Xylene), Class 3, PG III (depending on flash point). Consult carrier for specifics.

Section 15. Regulatory Information

- TSCA: All components listed or exempt.
- SARA 313: Xylene reportable.
- California Prop 65: May contain trace chemicals (consult for specifics). For professional use only.

Section 15. Other Information

This SDS is prepared based on available data for components. Users must read the full Part B SDS and follow all label instructions. For additional information, contact ZIIS at sales@ziis.com. Note: This is a generated SDS for development purposes based on provided formulation and standard references. Verify with regulatory testing for final compliance.

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