

Safety Data Sheet

Section 1. Identification

Product Name: Z-SEAL ULV Part B (Amine Hardener / Curing Agent) | Formula Code: 5004B



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PERS Contract#: 12839
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Revision Date: May 13th, 2026
Version 1.1 (Updated for ~25%
Xylene content)

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

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

Section 2. Hazard(s) Identification

GHS Classification (OSHA HCS 2012):

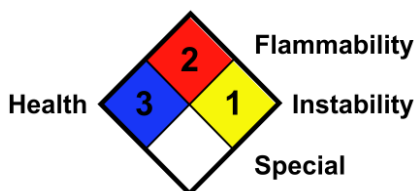
- Flammable Liquid Category 3 (H226)
- Acute Toxicity (Oral/Inhalation) Category 4 (H302 + H332)
- Skin Corrosion/Irritation Category 2 (H315)
- Serious Eye Damage/Eye Irritation Category 2A (H319)
- Skin Sensitization Category 1 (H317)
- Reproductive Toxicity Category 2 (H361) – Nonyl phenol contribution
- STOT-SE Category 3 (H335 + H336)
- STOT-RE Category 2 (H373)
- Aquatic Acute/Chronic Toxicity (H400/H410/H412)

Signal Word: WARNING / DANGER (depending on exact exposure scenario)

HMIS & NFPA Ratings (estimated for this formulations)

HEALTH	3
FLAMMABILITY	2
REACTIVITY	1
PERSONAL PROTECTION	

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



Section 3. Composition

Ingredient (CAS)	% by Wt	Key GHS Hazards	Ingredient (CAS)
Para Nonyl Phenol (CAS 84852-15-3)	40-60%	Skin/Eye Irrit. 2A, Repr. 2, Aquatic Acute 1/Chronic 2-4, Sens.	Para Nonyl Phenol (CAS 84852-15-3)
Polyoxypropylenediamine (Jeffamine D230 type, CAS 9046-10-0)	10-20%	Acute Tox. 4, Skin Corr./Irrit., Sensitization	Polyoxypropylenediamine (Jeffamine D230 type, CAS 9046-10-0)
2-Methylpentamethylenediamine (Dytek A, CAS 15520-10-2)	5-15%	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1	2-Methylpentamethylenediamine (Dytek A, CAS 15520-10-2)
Itamine K230 / Reoxy AR 154 / Ancamines K54 (amine/accelerator blend)	1-10%	Corrosive/Irritant, Sensitizer (tertiary amine component)	Itamine K230 / Reoxy AR 154 / Ancamines K54 (amine/accelerator blend)
Xylene (mixed isomers, CAS 1330-20-7)	<20%	Flam. Liq. 3, Acute Tox. 4, Skin/Eye Irrit. 2, STOT SE 3	Xylene (mixed isomers, CAS 1330-20-7)

PPE Recommendation: D (Face shield + chemical-resistant gloves + apron). Respirator recommended for poor ventilation.

Section 4-8. First Aid, Fire, Spill, Handling, PPE

First Aid: Eye/Skin – immediate flush/wash; seek medical if irritation/rash. Inhalation – fresh air/oxygen. Ingestion – do NOT induce vomiting, seek immediate medical.

Fire: Foam/CO₂/dry chemical/water fog. SCBA required. Flammable vapors.

Spill: Eliminate ignition sources. Contain with inert absorbent. Prevent waterway entry. Hazardous waste disposal.

Handling/Storage: Ground containers. Use explosion-proof equipment. Store cool (50–95°F), ventilated, away from Part A and ignition sources.

PPE/Exposure: Nitrile gloves, face shield/goggles, apron, respirator if ventilation poor. Xylene TLV 20 ppm.

Section 9. Physical & Chemical Properties

Appearance: Light amber liquid

Odor: Aromatic + amine

Specific Gravity: ~0.96–0.98 (estimated; confirm)

% Non-Volatiles: ~81.5%

Flash Point: <100–120°F range (Xylene + amine driven; lab verification required)

Section 10-16. Stability, Toxicology, Ecology, Disposal, Transport, Regulatory

Stability/Reactivity: Stable. Exothermic reaction with Part A. Incompatible with strong oxidizers/acids.

Toxicology: Nonyl phenol (Repr. 2), amines (corrosive/sensitizing), xylene (CNS, irritation). Primary risks: skin sensitization, reproductive toxicity concern, respiratory irritation.

Ecological: Very toxic / harmful to aquatic life with long-lasting effects (nonyl phenol + epoxy residues).

Disposal: Hazardous waste. Cure small quantities with Part A before disposal where permitted.

Transport (DOT): UN 1993 Flammable Liquid n.o.s. (Xylene + amines), Class 3, PG III. Marine pollutant: Yes.

Regulatory: TSCA compliant. SARA 313 reportable (Xylene). CA Prop 65 likely warnings for Xylene + Nonyl phenol.

NOTICE TO READER

This development SDS reflects the June 2026 adjusted formulation (18.5% xylene, stoich-adjusted amines for 3–4% epoxy-rich at 1:1 by volume). Final SDS for commercial distribution requires full lab testing (flash point determination, exact physical properties, toxicological data). User must verify suitability and comply with all regulations. ZIIS INC provides this information in good faith but assumes no liability for misuse.

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