

Safety Data Sheet

Section 1. Identification:

Product Name: Z-TREAT EXTEND PCP | **Product Code:** ZTE/PCP

Product Use: Penetrating concrete roadway densifier / hardener / sealer. Used to densify, strengthen, and protect concrete surfaces on roadways, pavements, and industrial floors by reacting with free lime to form insoluble calcium silicate hydrate.



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INFOTRAC (24/7): 1-800-535-5053
Outside US (Collect): 1-352-323-3500
Medical Emergency: 1-800-535-5053
Revision Date: May 18, 2026
Version: 1.0

Section 2. Hazard(s) Identification:

OSHA HCS 2012 / GHS Classification

- Skin Corrosion/Irritation: Category 2
- Serious Eye Damage/Eye Irritation: Category 2A

Hazard Statements: H315 – Causes skin irritation. H319 – Causes serious eye irritation.

Precautionary Statements:

Prevention: P264 – Wash thoroughly after handling. P280 – Wear protective gloves, protective clothing, eye protection, and face protection.

Response: P302 + P352

IF ON SKIN: Wash with plenty of water. P332 + P313 – If skin irritation occurs: Get medical advice/attention. P362 + P364 – Take off contaminated clothing and wash it before reuse. P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 – If eye irritation persists: Get medical advice/attention.

Storage: None specific. Disposal: P501 – Dispose of contents/container in accordance with local, regional, national, and international regulations.

Other Hazards: May cause respiratory irritation if mists or vapors are inhaled in high concentrations. Not classified as flammable or combustible under normal conditions. Alkaline aqueous solution (typical pH 10.5–11.5). Not expected to be a significant environmental hazard at typical use dilutions.

Signal Word: Warning



Section 3. Composition / Information on Ingredients:

Chemical Nature: Aqueous mixture of lithium silicate, colloidal silica, potassium methyl siliconate, and amino-functional silane.

Component	CAS #	% by weight	GHS Classification
Water	7732-18-5	>60%	Not classified
Lithium Silicate	12627-14-4	15-25%	Eye Irrit. 2A; Skin Irrit. 2
Colloidal Silica	7631-86-9	15-25%	Eye Irrit. 2A (mild)
Potassium Methyl Siliconate	31795-24-1	1-5%	Skin Corr. 1B / Eye Dam. 1 (diluted in mixture)
(N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane)	1760-24-3	1-5%	Skin Corr. 1 / Eye Dam. 1 / Skin Sens. 1 (diluted in mixture)

All hazardous ingredients are present at levels that result in the overall mixture classification shown in Section 2. Trace methanol or other residuals from silane may be present but below reportable thresholds.

Section 4. First-Aid Measures:

Eye Contact: Rinse cautiously with water for at least 15 minutes, lifting eyelids. Remove contact lenses if present. Get medical attention if irritation persists.

Skin Contact: Wash with plenty of soap and water. Remove contaminated clothing. Get medical attention if irritation occurs.

Inhalation: Move to fresh air. If breathing is difficult, administer oxygen. Seek medical attention if symptoms persist.

Ingestion: Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Get medical attention immediately.

Most Important Symptoms: Irritation, redness, pain to eyes and skin.

Notes to Physician: Treat symptomatically. No specific antidote.

Section 5. Firefighting Measures:

Suitable Extinguishing Media: Water spray, foam, dry chemical, or carbon dioxide.

Unsuitable: None known.

Specific Hazards: Non-flammable. Thermal decomposition may produce oxides of silicon, lithium, potassium, carbon, and nitrogen.

Protective Equipment: Wear self-contained breathing apparatus and full protective gear if large quantities are involved.

Section 6. Accidental Release Measures:

Personal Precautions: Use appropriate PPE (gloves, goggles, protective clothing). Avoid contact with eyes and skin.

Environmental Precautions: Prevent entry into sewers, waterways, or soil. Cleanup: Absorb with inert material (sand, earth, vermiculite). Collect and dispose according to regulations. Rinse area with water.

Section 7. Handling and Storage:

Handling: Use only with adequate ventilation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Storage: Store in original tightly closed containers in a cool, dry, well-ventilated area. Protect from freezing. Keep away from strong acids and oxidizers. Shelf life: Stable under recommended conditions.

Section 8. Exposure Controls/Personal Protection:

Exposure Limits: No specific OSHA PEL or ACGIH TLV established for the mixture. Components have general limits (e.g., amorphous silica respirable dust ~10 mg/m³).

Engineering Controls: Use local exhaust ventilation if spraying or generating mists.

Personal Protective Equipment:

- **Eyes/Face:** Safety goggles or face shield.
- **Skin:** Chemical-resistant gloves (nitrile, neoprene), long-sleeved clothing.
- **Respiratory:** NIOSH-approved respirator if exposure exceeds limits or in confined spaces.
- **Hygiene:** Wash hands and face after handling.

Section 9. Physical and Chemical Properties:

Appearance: Clear to slightly hazy liquid

Odor: Slight, characteristic pH: 10.5–11.5 (alkaline)

Melting/Freezing Point: ~32°F (0°C)

Boiling Point/Range: ~212°F (100°C)

Flash Point: Not applicable (non-flammable)

Evaporation Rate: Similar to water

Flammability: Not flammable

Vapor Pressure/Density: Similar to water

Relative Density: ~1.05 (estimated from batch data)

Solubility: Completely miscible in water

Viscosity: Low viscosity, similar to water

Section 10. Stability and Reactivity:

Reactivity: Stable under normal conditions. Reacts with acids to form gels or precipitates.

Chemical Stability: Stable.

Incompatible Materials: Strong acids, strong oxidizers.

Hazardous Decomposition Products: Silicon oxides, alkali oxides, carbon oxides, nitrogen oxides (under fire conditions).

Section 11. Toxicological Information:

Acute Toxicity: Low acute toxicity expected based on components (oral LD50 >5,000 mg/kg estimated).

Skin/Eye: Irritant as classified.

Respiratory/Skin Sensitization: Possible mild sensitization from trace amino silane.

Carcinogenicity / Mutagenicity / Reproductive Toxicity: Not classified. No components listed as carcinogens by IARC, NTP, or OSHA at reportable levels.

Specific Target Organ Toxicity: Respiratory irritation possible from mists.

Section 12. Ecological Information:

Ecotoxicity: Low toxicity to aquatic life at use concentrations due to dilution. Avoid large releases.

Persistence/Degradability: Inorganic silicates are persistent; organic components are biodegradable.

Bioaccumulative Potential: Low. Mobility: High (water soluble).

Section 13. Disposal Considerations:

Dispose of in accordance with all federal, state, and local regulations. Empty containers may retain residue; triple rinse before disposal. Not a RCRA hazardous waste when disposed as generated (typical use).

Section 14. Transport Information:

DOT / IATA / IMDG: Not regulated for transport. Not a hazardous material under U.S. DOT regulations.

Section 15. Regulatory Information:

TSCA: All components are listed or exempt.

SARA 311/312: Acute health hazard (irritation).

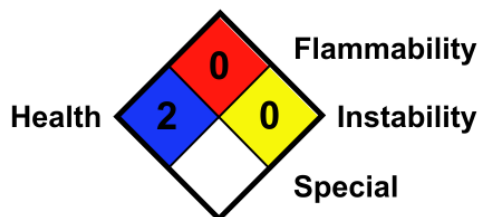
SARA 313: None reportable.

California Prop 65: No ingredients known to the State of California to cause cancer, birth defects, or reproductive harm at reportable levels.

Right-to-Know: Components may be reportable in some states.

Section 16. Other Information:

NFPA Ratings



HMIS Ratings: Health 2, Flammability 0, Physical 0, PPE B

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	

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

Date of Preparation: Based on Batch Ticket B00224 dated 5/18/2026. **Disclaimer:** The information in this SDS is believed to be accurate and is provided in good faith. It is the buyer's/user's responsibility to determine suitability and compliance with all applicable regulations. ZIIS, INC. makes no warranty, express or implied, regarding the accuracy or completeness of this information.