



# Permalith Safety Data Sheet

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Form:** Mixture  
**Product Name:** US SPEC Permalith  
**Synonyms:** None  
**Product Uses:** Concrete Sealer, Hardener and Densifier  
**Manufacturer:** US MIX Co.  
112 South Santa Fe Drive  
Denver, CO 80223  
Telephone: 303-778-7227  
Fax: 303-722-8426  
**Emergency Contact:** CHEMTREC 800-424-9300

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## SECTION 2: HAZARDS IDENTIFICATION

**GHS-US classification**  
Eye damage/irritation - 2  
Skin corrosion/irritation - 2

### GHS-US labeling

**Hazard Pictograms (GHS-US):**



**Signal Word (GHS-US):**

Warning

**Hazard Statements (GHS-US):**

Causes skin irritation; Causes serious eye irritation.

**Precautionary Statements (GHS-US):**

Wear protective gloves and eye/face protection. Wash with plenty of water and soap thoroughly after handling. Do not get in eyes, on skin or on clothing. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Call a POISON CENTER or doctor/physician. **IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice. Take off contaminated clothing and wash it before reuse. Store in well ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local, regional, national and international regulations.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	PERCENT
Lithium Silicate	12627-14-4	20-40

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

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### SECTION 4: FIRST AID MEASURES

**INHALATION:** Move to fresh air. If cough, irritation, difficulty in breathing persist or develop, call a physician.

**SKIN CONTACT:** Do not rub skin. Rinse skin free of material with water to avoid abrasion of skin. Wash thoroughly with soap and water.

**INGESTION:** Administer milk or water. DO NOT induce vomiting. Call a physician or Poison Control Center immediately. DO NOT give anything orally to an unconscious person.

**EYE CONTACT:** Do not rub eyes. Flush with water for 15 minutes. Call a physician.

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### SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT (TAG CLOSED CUP):** Non-Flammable

**FLAMMABLE LIMITS**                      LEL: NA                                      UEL: NA

**EXTINGUISHING MEDIA:** NA

**SPECIAL FIRE FIGHTING PROCEDURES:** NA

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** NA

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Contain with earthen dike if necessary. Contain spill with inert absorbent.

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### SECTION 7: HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Use only in well ventilated area. Protect from freezing.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE CONTROLS:

No known components with exposure limits

#### PERSONAL PROTECTION/CONTROL MEASURES:

**RESPIRATORY PROTECTION:** Organic vapor cartridge or NIOSH approved supplied air respirators according to OSHA regulation 29 CFR 1910.134.

**VENTILATION:** Fan or forced air exhaust. If ventilation is inadequate use respiratory protection.

**PROTECTIVE GLOVES:** Use rubberized gloves according to OSHA regulation 29 CFR 1910.138.

**EYE PROTECTION:** Chemical splash goggles or face shield according to OSHA regulation 29 CFR 1910.133.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** PVC or equivalent chemically resistant apron. Safety showers, eye wash stations and washing facilities should be available.

**WORK/HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, smoking or using washroom. Remove and wash contaminated clothing before re-use.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear liquid  
**ODOR:** Mild  
**BOILING POINT:** 212°F (100°C)  
**FREEZING / MELTING POINT:** 32°F (0°C)  
**VAPOR PRESSURE (MM HG):** 17@ 68°F Water  
**EVAPORATION (BUTYL ACETATE = 1):** <1  
**VAPOR DENSITY (AIR = 1):** <1 Water  
**WATER SOLUBILITY:** Soluble  
**SPECIFIC GRAVITY (H2O=1):** 1.1  
**OTHER SOLUBILITIES:** None Known  
**pH:** 11.0  
**VOC CONTENT:** <20 g/l

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### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Stable  
**CONDITIONS TO AVOID:** Protect from freezing  
**INCOMPATIBILITY (MATERIALS TO AVOID):** NA  
**HAZARDOUS DECOMPOSITION (BYPRODUCTS):** NA  
**HAZARDOUS POLYMERIZATION:** Will not occur

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### ROUTES OF ENTRY

Inhalation? Yes    Skin? Yes    Ingestion? No (not under normal conditions of use)    Eyes? Yes

#### HEALTH HAZARDS

**INHALATION:** Breathing mist can cause irritation of nasal and respiratory passages

**SKIN CONTACT:** May cause irritation

**INGESTION:** Lithium compounds may damage the central nervous system. A large dose may have the following effects: headache, nausea, dizziness, convulsions, kidney damage.

**EYE CONTACT:** May cause irritation, redness, tearing and blurred vision. Risk for serious damage to eyes.

**GERM CELL MUTAGENICITY:** Based on available data, the classification criteria are not met.

**CARCINOGENICITY:** Based on available data, the classification criteria are not met

**REPRODUCTIVE TOXICITY:** Based on available data, the classification criteria are not met.

**SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):** Based on available data, the classification criteria are not met.

**SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):** Based on available data, the classification criteria are not met.

**ASPIRATION HAZARD:** Based on available data, the classification criteria are not met.

**SYMPTOMS/INJURIES AFTER INHALATION:** May cause respiratory tract irritation.

**SYMPTOMS/INJURIES AFTER SKIN CONTACT:** May cause skin irritation.

**SYMPTOMS/INJURIES AFTER EYE CONTACT:** May cause eye damage/irritation.

**SYMPTOMS/INJURIES AFTER INGESTION:** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**OTHER INFORMATION:** Likely routes of exposure: inhalation, skin and eye.

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity**

Not determined

**Persistence and degradability**

Not determined

**Elimination information**

Not determined

**Bioaccumulative potential**

Not determined

**Mobility in soil**

Not determined

**Other adverse effects**

The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state and federal regulations.

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**SECTION 14: TRANSPORT INFORMATION**

**DOT Transportation Data (49 CFR 172.101):**

Shipping Name:	Not a Regulated Material
Hazard Class:	Non-Hazardous
ID No.:	NA
Packing Group:	NA
Label:	NA
Limited Quantity Exceptions:	NA
US Domestic Ground Shipments:	NA
Maritime Transport:	NA
Air Transport:	NA
Placards:	NA
National Motor Freight NMF-100-0:	Concrete Curing Compound
	Item: 33980
	Class: 55

**SECTION 15: REGULATORY INFORMATION**

**OSHA STATUS:** Irritant

**SARA TITLE III:** Section 312 Extremely Hazardous Substances: None  
Section 311/312 Hazard Categories: Acute Health Hazard  
Section 313 Toxic Chemicals: None Known

**RCRA STATUS:** If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product derived from the product should be classified as a hazardous waste.

**CALIFORNIA PROPOSITION 65:** The chemical(s) noted below are contained in this product and are known to the state of California to cause cancer, birth defects or other reproductive harm:

**None Known**

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**SECTION 16: OTHER INFORMATION**

**DATA SOURCES:** SDS prepared by US MIX Co. pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

**SDS REVISION DATE:** 5/7/2015

**HMIS:** Health 1; Flammability 0; Reactivity; 0

Comments: This Safety Data Sheet and the information it contains are offered to you in good faith as accurate. We have reviewed any information contained in this datasheet, which we received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of this product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.