



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

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.

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.

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

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.

SECTION 7: HANDLING AND STORAGE

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

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

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

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.

SECTION 13: DISPOSAL CONSIDERATIONS

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

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

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.