

PS104 Lithium Silicate Densifying WB Penetrating Sealer w/ Silicate Repellent

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1 Identification

PRODUCT NAME: PS104 Lithium Silicate Densifying WB Penetrating Sealer w/ Silicate Repellent

PRODUCT CODES: PS104

MANUFACTURER: Concrete Sealers USA

STREET ADDRESS: P.O. Box 1223

CITY, STATE, ZIP: Brookfield, WI 53008-1223

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DATE REVISED: 6/1/15

Chemical Name or Class: Lithium Silicate Mixture w/ Silicate

2 Hazard(s) Identification

Hazard Overview

GHS Classification: Serious eye irritation category 1, Skin corrosion/irritation category 1C

Label Elements: Corrosion

GHS Label Elements and Precautionary Statements:

Hazard Statements:

Danger: Causes severe skin burns and eye damage.

Danger: Causes serious eye damage.

Precautionary statements:

- | | |
|------|---|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Response:

- | | |
|--------------------|--|
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. |
| P363 | Wash contaminated clothing before reuse. |
| P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P321 | If skin irritation or burns develop, Call a doctor/physician. |
| P305 + P351 + P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

Storage:

- | | |
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| P405 | Store locked up. |
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2 Hazard(s) Identification (Continued)

Disposal:

P501

Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws.

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: B

POTENTIAL HEALTH EFFECTS

EYES: DIRECT CONTACT CAN BURN EYES AND CAUSE POSSIBLE PERMANENT INJURY.

SKIN: CONTACT WITH SKIN CAN CAUSE BURNS OR IRRITATION.

INGESTION: CAN CAUSE BURNS TO THE MOUTH, THROAT OR DIGESTIVE SYSTEM IF SWALLOWED.

INHALATION: MIST MAY SERIOUSLY IRRITATE NOSE, THROAT, AND LUNGS DEPENDING ON CONCENTRATION AND DURATION OF EXPOSURE.

HEALTH HAZARDS (ACUTE AND CHRONIC): CONTACT CAN CAUSE BURNS TO EYES OR SKIN. CONTACT CAN CAUSE IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN.

CARCINOGENICITY

OSHA: NO NTP: NO IARC: NO

NO COMPONENTS OF THIS PRODUCT ARE LISTED AS CARCINOGENS.

3 Composition / Information on Ingredients

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
LITHIUM SILICATE	12627-14-4	NONE	NONE	NONE	3-7
POTASSIUM METHYL SILICONATE	31795-24-1	NONE	NONE	NONE	3-7
WATER	7732-18-5	NONE	NONE	NONE	60-100

SECTION 3 NOTES: No toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

4 First-Aid Measures

EYES: IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES AND SEEK MEDICAL ATTENTION.

SKIN: FLUSH SKIN IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES AND SEEK MEDICAL ATTENTION IF NECESSARY.

INGESTION: DO NOT INDUCE VOMITING AND SEEK MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR AREA AND RECEIVE MEDICAL ATTENTION IF ILL EFFECTS PERSIST.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: IN ALL CASES OF EXPOSURE, TREAT ACCORDING TO PERSON'S CONDITION AND SPECIFIC EFFECTS OF EXPOSURE.

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5 Fire-Fighting Measures

FLAMMABLE LIMITS IN AIR,
(% by volume)

UPPER: N/A

LOWER: N/A

FLASH POINT: >212°F

METHOD USED: SETA FLASH

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO₂, DRY CHEMICAL, WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES: SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

6 Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR THE APPROPRIATE SAFETY EQUIPMENT. DYKE MATERIAL AND TAKE UP REMAINDER WITH ABSORBANT TO SALVAGE CONTAINER.

7 Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: WEAR SUITABLE PROTECTIVE CLOTHING TO AVOID CONTACT WITH MATERIAL. WEAR NEOPRENE OR RUBBER GLOVES. WEAR SPLASH GOGGLES WITH SIDE SHIELDS. STORE AWAY FROM HIGH HEAT, CONTACT WITH FLAMES AND/OR SPARKS. KEEP MATERIAL IN SEALED CONTAINERS THAT ARE PROPERLY LABELED. DO NOT ALLOW MATERIAL TO FREEZE.

OTHER PRECAUTIONS: USE GENERAL SAFETY PRECAUTIONS WHEN USING THIS MATERIAL. WASH HANDS BEFORE USING TOILET FACILITIES. REMOVE CONTAMINATED CLOTHING PROMPTLY.

8 Exposure Controls / Personal Protection

RESPIRATORY PROTECTION: AVOID THE INHALATION OF ANY MISTS THAT MAY BE GENERATED IN THE APPLICATION PROCESS.

VENTILATION: PROVIDE FOR ADEQUATE GENERAL VENTILATION.

PROTECTIVE GLOVES: IMPERVIOUS GLOVES, NEOPRENE OR RUBBER.

EYE PROTECTION: SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: PROVIDE NECESSARY CLOTHING AND SAFETY EQUIPMENT TO PREVENT CONTACT WITH MATERIAL.

WORK HYGIENIC PRACTICES: TYPICAL HYGIENIC PRACTICES SHOULD BE EMPLOYED TO PREVENT EXPOSURE AND CONTACT TO MATERIAL. SEE SECTION 3 FOR OCCUPATIONAL EXPOSURE LIMIT VALUES.

9 Physical and Chemical Properties

APPEARANCE AND ODOR: TRANSPARENT WHITE OR COLORLESS LIQUID WITH SLIGHT ODOR

BOILING POINT OR RANGE: 0°F - 212°F

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): 1.0

EVAPORATION RATE: N/A

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9 Physical and Chemical Properties (Continued)

SOLUBILITY IN WATER: NOT DETERMINED

Odor Threshold: N/A

pH: <10

Melting point/freezing point: N/A

Vapor Pressure: N/A

Auto Ignition Temperature: N/A

Partition Coefficient: n-octanol/water: N/A

Decomposition Temperature: N/A

10 Stability and Reactivity

STABILITY: STABLE.

CONDITIONS TO AVOID (STABILITY): NONE KNOWN.

INCOMPATIBILITY (MATERIAL TO AVOID): AVOID CONTACT WITH OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: CARBON OXIDES AND TRACES OF INCOMPLETE CARBON COMPOUNDS, SILICON DIOXIDE (HIGH HEAT), METAL OXIDES AND FORMALDEHYDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

11 Toxicological Information

No data for the product itself.

Component data:

Component: LITHIUM SILICATE CAS# 12627-14-4. Acute Data: When tested for primary irritation potential, a similar material caused moderate irritation to the eyes and moderate irritation to the skin. Subchronic Data: Repeated ingestion or ingestion of large doses of soluble lithium compounds is reported to cause temporary mental function impairment. Special Studies: Repeated ingestion or ingestion of large doses of soluble lithium compounds during pregnancy is reported to cause fetal abnormalities. Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation of kidney stones and other siliceous urinary calculi in humans. Lithium silicate is not listed by IARC, NTP or OSHA as a carcinogen.

Ingredient: POTASSIUM METHYL SILICONATE.

Acute toxicity not classified based on available information.

Skin corrosion/irritation: Rabbit Result: Corrosive after 3 minutes or less of exposure Remarks: Based on data from similar materials.

Serious eye damage/eye irritation: Rabbit Result: Irreversible effects on the eye Remarks: Based on test data.

Respiratory or skin sensitization: Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

STOT-single exposure: Not classified based on available information.

STOT-repeated exposure: Not classified based on available information.

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12 Ecological Information

No data for the product itself.

Component data:

Component: LITHIUM SILICATE CAS# 12627-14-4. Eco toxicity: This product has not been tested for ecotoxicity potential. Environmental Fate: The high pH of this material may be acutely harmful to aquatic life. It does not contribute to BOD. Physical/Chemical: Sinks and mixes with water. Only water will evaporate from this material.

Ingredient: POTASSIUM METHY SILICONATE. No available data.

13 Disposal Considerations

WASTE DISPOSAL METHOD: DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.

14 Transport Information

DOT: Not Regulated

IMO/IMDG: Not Regulated

15 Regulatory Information

No data for the product itself.

Component data:

Component: LITHIUM SILICATE CAS# 12627-14-4. CERCLA: No CERCLA Reportable Quantity has been established for this material. SARA TITLE III: Not an Extremely Hazardous Substance under §302. Not a Toxic Chemical under §313. Hazard Categories under §§311/312: Acute TSCA: All ingredients of this material are listed on the TSCA inventory. Component is on the Canada DSL list.

Ingredients: Potassium Methyl Siliconate and Water.

SARA 304 Extremely Hazardous Substances Reportable Quantity. This material does not contain any components with a section 304 EHS RQ. SARA 311/312 Hazards: Acute Health Hazard SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. US State Regulations Pennsylvania Right To Know and New Jersey Right to Know: Water CAS# 7732-18-5 50, Potassium Methyl Siliconate CAS# 31795-24-1. The ingredients of this product are reported in the following inventories: KECI: All ingredients listed, exempt or notified. REACH: All ingredients (pre-)registered or exempt. TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances. AICS: All ingredients listed or exempt. IECSC: All ingredients listed or exempt. PICCS: All ingredients listed or exempt. DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL). ENCS/ISHL: All components are listed on ENCS/ISHL or exempted from inventory listing. NZIoC: All ingredients listed or exempt. Inventories AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA).

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16 Other Information

DISCLAIMER: THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE. HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT.

N/A = Not Available.

See Section 1 for date of preparation.