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# 1. Identification

**Product identifier**

KEIM CONCRETAL W

## Recommended use of the chemical and restrictions on use

**Use of the substance/mixture**

Sol-silicate High-Performance Protective Coating for Concrete

## Details of the supplier of the safety data sheet

|  |  |
| --- | --- |
| Company name: | KEIM Mineral Coatings of America, Inc |
| Address: | 10615 Texland Boulevard, #600  Charlotte, NC 28273, USA |
| Telephone: | 1 704-588-4811 |
| **Emergency phone number:** | in US and Canada:  1 800 535 5053 (INFOTRAC) |

# 2. Hazard(s) identification

## Classification of the chemical

### 29 CFR Part 1910.1200

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d). **Label elements**

**Additional advice on labelling**

The product does not require a hazard warning label.

## Hazards not otherwise classified

Handle in accordance with good industrial hygiene and safety practice.

# 3. Composition/information on ingredients

## Mixtures

### Chemical characterization

Aqueous solution of alkali silicate, silica sol, and additives

# 4. First-aid measures

## Description of first aid measures

### General information

No special measure necessary.

Show this safety data sheet to the doctor in attendance.

### After inhalation

Take affected person into fresh air.

In the event of symptoms refer for medical treatment.

### After contact with skin

Wash off with soap and plenty of water.

Consult a doctor if skin irritation persists.

Do not use solvents or thinners.

### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

### After ingestion

Rinse out mouth and give plenty of water to drink.

Do not induce vomiting.

Call a physician immediately.

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## Most important symptoms and effects, both acute and delayed

OSHA Hazard Communication: This material is not considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

No data available.

**Indication of any immediate medical attention and special treatment needed** Treat symptoms.

# 5. Fire-fighting measures

## Extinguishing media

**Suitable extinguishing media**

Product itself does not burn. Fire-extinguishing activities according to surrounding building materials.

## Specific hazards arising from the chemical

In case of fire and/or explosion do not breathe fumes.

**Special protective equipment and precautions for fire-fighters** Use breathing apparatus with independent air supply.

### Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

# 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation. Keep away noninvolved persons.

High risk of slipping due to leakage/spillage of product.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

## Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.

Clean contaminated surface thoroughly.

## Reference to other sections

Information for disposal look up chapter 13.

# 7. Handling and storage

## Precautions for safe handling

### Advice on safe handling

Avoid contact with skin, eyes and clothing.

Keep container tightly closed.

Avoid formation of aerosolized spray mist.

Keep a good ventilation and air-exhaust at the place of work.

**Advice on protection against fire and explosion** No special measure necessary.

## Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep only in unopened original container. Keep in a dry, cool and well-ventilated place.

**Advice on storage compatibility** Do not store with acids.

**Further information on storage conditions** To be kept tightly closed, in a cool and dry place.

Keep from freezing.

Protect from heat and direct solar radiation.

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# 8. Exposure controls/personal protection

## Control parameters

### Exposure limits

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CAS No. | Substance | ppm | mg/m³ | f/cc | Category | Origin |
| 7727-43-7 | Barium sulfate (resp) | - | 5 |  | TWA (8 h) | REL |
| 7727-43-7 | Barium sulfate (inhalable fraction) |  | 5 |  | TWA (8 h) | ACGIH-2016 |
| 7727-43-7 | Barium sulfate Respirable fraction | - | 5 |  | TWA (8 h) | PEL |
| 7631-86-9 | Silica, amorphous | - | 6 |  | TWA (8 h) | REL |
| 14808-60-7 | Silica, crystalline (as respirable dust) | - | 0.05 |  | TWA (8 h) | REL |
| 14808-60-7 | Silica, crystalline - alpha-quartz (respirable fraction) |  | 0.025 |  | TWA (8 h) | ACGIH-2016 |
| 14808-60-7 | Silica, crystalline quartz, total dust | - | (Z-3) |  | TWA (8 h) | PEL |

## Exposure controls

### Protective and hygiene measures

Do not inhale aerosolized spray mist.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of workday.

### Eye/face protection

Eye wash bottle with pure water.

Tightly fitting goggles.

### Hand protection

Chemical-resistant gloves (EN 374) / NIOSH/MSHA approved

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes. Select the appropriate glove material adhering to the breakthrough time, permeation rate and the degradation.

**Skin protection** Long sleeved clothing.

### Respiratory protection

Not required; except in case of aerosolized spray mist.

Mask with filter Type P (EN 141), NIOSH/MSHA approved

# 9. Physical and chemical properties

## Information on basic physical and chemical properties

|  |  |
| --- | --- |
| Physical state: Color: | Pasty  Product-specific |
| Odor: | Odorless |
| pH-Value (at 20 °C):  **Changes in the physical state** | ~11 |
| Flash point: | None |
| Explosive properties | The product is not explosive. |
| Oxidizing properties | The product is not self-igniting. |
| Vapor pressure: (at 20 °C) | 23 hPa |
| Density (at 20 °C): | 1,5-1,8 g/cm³ |
| Water solubility: | Miscible |
| Viscosity / dynamic: | 1100 - 1550 mPa·s |

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**Other information** No data available.

# 10. Stability and reactivity

**Reactivity**

Stable under normal conditions.

## Chemical stability

Stability: Stable

Stable under normal conditions.

## Possibility of hazardous reactions

Hazardous reactions: Will not occur

None under normal processing.

## Conditions to avoid

Keep from freezing.

Protect from heat and direct solar radiation.

**Incompatible materials** Acids.

## Hazardous decomposition products

No decomposition if stored and applied as directed.

# 11. Toxicological information

## Information on toxicological effects

**Route(s) of Entry**

Skin and eye contact, inhalation and ingestion. Skin and eye contact, inhalation and ingestion.

### Acute toxicity

Based on available data, the classification criteria are not met.

No toxicological data available.

### Irritation and corrosivity

Based on available data, the classification criteria are not met.

Skin or eye contact may cause temporary mechanical irritation.

Prolonged contact may cause skin irritation.

Possibility of strong irritations in the case of contact with eye-, skin or mucous membranes because of the high ph-value.

### Sensitizing effects

Based on available data, the classification criteria are not met.

Non-sensitizing

**Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

|  |  |
| --- | --- |
| Carcinogenicity (NTP): | Not listed |
| Carcinogenicity (IARC): | Not listed |
| Carcinogenicity (OSHA): | Not listed |

**Aspiration hazard**

Based on available data, the classification criteria are not met.

### Further information

Health injuries are not known or expected under normal use.

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# 12. Ecological information

## Ecotoxicity

No toxicological data available. **Persistence and degradability** No data available.

**Bioaccumulative potential** No data available.

## Mobility in soil

No data available.

**Other adverse effects** Slightly water hazardous.

### Further information

Do not flush into surface water or sanitary sewer system. A pH-change becomes possible in water.

# 13. Disposal considerations

## Waste treatment methods

**Advice on disposal**

Disposal in accordance with local regulations.

### Contaminated packaging

Disposal in accordance with local regulations. Cleaning agent: Water

# 14. Transport information

## US DOT 49 CFR 172.101

|  |  |
| --- | --- |
| **Proper shipping name:**  **Marine transport (IMDG)** | Not regulated. |
| Marine pollutant: | no |

**Other applicable information (marine transport)**

Non hazardous material as defined by the transport regulations.

**Air transport (ICAO-TI/IATA-DGR)**

**Other applicable information (air transport)**

Non hazardous material as defined by the transport regulations.

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

## Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** The transport takes place only in approved and appropriate packaging.

# 15. Regulatory information

## U.S. Regulations

**National Inventory TSCA**

All of the components are listed on the TSCA inventory.

## State Regulations

### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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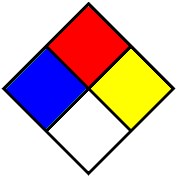
# 16. Other information

## Hazardous Materials Information Label (HMIS)

|  |  |
| --- | --- |
| Health: | 1 |
| Flammability: | 0 |
| Physical Hazard: | 0 |
| **NFPA Hazard Ratings**  Health:  Flammability:  Reactivity:  Unique Hazard:  **Changes** | 1  0  0 |
| Revision date:  Revision No:  Changes in section: 1 | 25.04.2017  10,1 |

## Abbreviations and acronyms

IMDG = International Maritime Code for Dangerous Goods



**0**

**1**

**0**

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

DOT = Department of Transportation

TDG = Transport of Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

CAS = Chemical Abstract Service

ISO = International Organization for Standardization

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

## Other data

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)