



Safety Data Sheet according to 29 CFR 1910.1200(g)
KEIM Mineral Coatings of America, Inc
Revision date: 06.02.2017 Revision No: 1,0
KEIM Royalan-Dilution
0503-0131_US

1. Identification

Product identifier

KEIM Royalan-Dilution

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Silicate dilution and primer

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

Alkaline product. Avoid contact with skin, eyes and clothing.
Handle in accordance with good industrial hygiene and safety practice.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Aqueous solution of alkali silicate 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

No data available.

Special protective equipment and precautions for fire-fighters

Use breathing apparatus with independent air supply. In case of fire and/or explosion do not breathe fumes.

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. Dilute with plenty of water.

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.

No dangerous substances are released.

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

Not required.

Further information on storage conditions

To be kept tightly closed, in a cool and dry place.

Keep from freezing.



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Protect from heat and direct solar radiation.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
7631-86-9	Silica, amorphous	-	6		TWA (8 h)	REL

Exposure controls

Appropriate engineering controls

The product contains no relevant quantities of materials with critical values that require monitoring at the workplace.

Protective and hygiene measures

Do not inhale aerosolized spray mist.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

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:	Liquid	
Color:	Milky, Blue	
Odor:	Characteristic	
pH-Value (at 20 °C):	> 11	*

Changes in the physical state

Melting point/freezing point:	~ 0 °C	
Initial boiling point and boiling range:	100 °C	
Flash point:	Not applicable.	
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):	1,03 g/cm ³	*
Water solubility:	Miscible	
Viscosity / dynamic:	Not determined	*

Other information

No data available.

* The values are for freshly produced material and may change with the time.



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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

Acute toxicity

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

Irritation and corrosivity

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

Skin or eye contact may cause temporary 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.

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.

12. Ecological information

Ecotoxicity

No toxicological data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.



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Mobility in soil

No data available.

Other adverse effects

Slightly water hazardous.

Further information

Do not flush into surface water or sanitary sewer system.

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; Marine transport (IMDG); Air transport (ICAO-TI/IATA-DGR)

UN number:

Non hazardous material as defined by the transport regulations.

UN proper shipping name:

Non hazardous material as defined by the transport regulations.

Transport hazard class(es):

Non hazardous material as defined by the transport regulations.

Packing group:

Non hazardous material as defined by the transport regulations.

Environmental hazards

Non hazardous material as defined by the transport regulations.

Special precautions for user

Non hazardous material as defined by the transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Non hazardous material as defined by the transport regulations.

US DOT 49 CFR 172.101

Proper shipping name:

Not regulated.

15. Regulatory information

U.S. Regulations

National Inventory TSCA

All of the components are 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.

16. Other information

Hazardous Materials Information Label (HMIS)

Health:	1
Flammability:	0
Physical Hazard:	0



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NFPA Hazard Ratings

Health: 1
Flammability: 0
Reactivity: 0
Unique Hazard:



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Abbreviations and acronyms

IMDG = International Maritime Code for Dangerous Goods

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)