



Safety Data Sheet

KEIM Concrete Cleaner

1. Identification

Product identifier

KEIM Concrete Cleaner (Betonschnellreiniger)

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Cleaning agent

Details of the supplier of the safety data sheet

Company name: KEIM Mineral Coatings of America, Inc
Street: 10615 Texland Boulevard, #600
Place: 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

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B Serious

Eye damage/eye irritation: Eye Dam. 1 Hazard

Statements: Causes severe skin burns and eye damage

Label elements

29 CFR Part 1910.1200 Signal word: Danger



Pictograms:

Hazard statements

Causes severe skin burns and eye damage

Precautionary statements

Keep out of reach of children.

Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or if you feel unwell: Get immediate medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Immediately call a poison center and get medical help.

Hazards not otherwise classified No data available.

3. Composition/information on ingredients

Mixtures



Chemical characterization

Mixture of the following substances with non-hazardous admixtures

Hazardous components

CAS No	Components	Quantity
16961-83-4	Fluorosilicic acid ... %	10 - 25 %
69011-36-5	Isotridecanol ethoxylate	< 2,5 %
64-17-5	Ethanol	2 %
7664-39-3	hydrogen fluoride	< 0,5 %

4. First-aid measures

Description of first aid measures

General information

Remove contaminated clothing immediately.
Show this safety data sheet to the doctor in attendance.

After inhalation

Supply fresh air, if required oxygen, consult a physician.

After contact with skin

In case of contact with skin wash off immediately with plenty of water.
Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

After ingestion

Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.
Seek medical treatment immediately.

Most important symptoms and effects, both acute and delayed Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed

Treat symptoms.
Keep under medical supervision for at least 48 hours.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media Full water jet.

Specific hazards arising from the chemical

In the event of fire the following can be released: Hydrogen fluoride (HF).
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.
Wear full protective suit.

Additional information

Cool containers at risk with water spray jet. 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

Use personal protective clothing.
Keep people away and stay on the upwind side.

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).
After cleaning up the material dispose of it according to regulation.
Clean contaminated surface thoroughly.
Use chemical neutralizers.

Reference to other sections

Information for disposal (see Section 13).

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing.
Avoid formation of aerosols.
Keep container tightly closed.
Keep good ventilation and air-exhaust during work and storage.

Advice on protection against fire and explosion

No special protective measures against fire required.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original container.
Keep in a dry, cool and well-ventilated place.
Glass containing materials are attacked..

Advice on storage compatibility

Do not store with alkalis.
Do not store together with metals.
Keep container tightly closed.

Further information on storage conditions

Keep in a cool place Keep from freezing.
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
64-17-5	Ethyl alcohol (Ethanol)	1000	1900		TWA (8 h)	PEL
64-17-5	Ethyl alcohol	1000	1900		TWA (8 h)	REL
-	Fluorides (as F)	-	2.5		TWA (8 h)	PEL



7664-39-3	Hydrogen fluoride (as F)	3	-	TWA (8 h)	PEL
7664-39-3	Hydrogen fluoride, as F	0.5		TWA (8 h)	TLV
		2		Peak	TLV
7664-39-3	Hydrogen fluoride	3	2.5	TWA (8 h)	REL
		C 6	C 5	Ceiling	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

Wash hands before breaks and at the end of workday. Do not inhale aerosols. Take off all contaminated clothing immediately. Avoid contact with skin, eyes and clothing. Keep away from food, drink and animal feed.

Eye/face protection

Tightly fitting splash protection safety goggles.

Hand protection

Chemical-resistant gloves (EN 374).

Protective gloves resistant to chemicals made off polychloroprene, Minimum coat thickness 0.6 mm, Permeation resistance (wear duration) approx. 480 minutes,. Follow the manufacturer's instructions. Penetration time of the glove material break-through time: >= 8h.

Skin protection

Long sleeved protective clothing.

Respiratory protection

Approved breathing apparatus, in the event of aerosol or mist formation.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Transparent
Odor:	Pungent
pH-Value (at 20 °C):	~ 1

Changes in the physical state

Initial boiling point and boiling range:	100 °C
Flash point:	n.a.
Explosive properties	The product is not self-igniting. The product is not explosive.

Oxidizing properties	Not applicable.
Vapor pressure: (at 20 °C)	23 hPa
Density (at 20 °C):	1,14 g/cm ³
Water solubility:	Miscible



10. Stability and reactivity

Reactivity

No data available.

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

Bases, Metals

Hazardous decomposition products

In the event of fire the following can be released: Hydrogen fluoride (HF).

Further information

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.

Acute toxicity

Based on available data, the classification criteria are not met. Substances where additional toxicity values are available:

Fluorosilicic acid ... %: LD50/oral/rat: 430 mg/kg

hydrogen fluoride: LD50/oral/rat: 1276 mg/kg

LC50/ Inhalative /rat: 0,82 mg/l

CAS No	Components				
	Exposure routes	Method	Dose	Species	Source
64-17-5	Ethanol				
	oral	LD50	6200 mg/kg	Rat	
	inhalative (4 h) vapor	LC50	95,6 mg/l	Rat	
7664-39-3	hydrogen fluoride				



	oral	ATE	5 mg/kg		
	dermal	ATE	5 mg/kg		
	inhalative vapor	ATE	0,5 mg/l		
	inhalative aerosol	ATE	0,05 mg/l		
	inhalative (1 h) gas	LC50	1610 ppm	Rat	IUCLID

Irritation and corrosivity

Causes severe skin burns and eye damage

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.

12. Ecological information

Ecotoxicity

Ecological data are not available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects No data available.

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.
Should not be disposed of with household waste.
Do not empty into drains



Contaminated packaging

Disposal in accordance with local regulations.

14. Transport information

US DOT 49 CFR 172.101

UN/ID number: UN 1778
Proper shipping name: FLUOROSILICIC ACID
Transport hazard class(es): 8
Packing group: II
Hazard label: 8

Marine transport (IMDG)

UN number: UN1778
UN proper shipping name: FLUOROSILICIC ACID
Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Limited quantity: 1 L
EmS: F-A, S-B

Air transport (ICAO)

UN number: UN1778
UN proper shipping name: FLUOROSILICIC ACID
Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Limited quantity Passenger: 0.5 L
IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

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.

National regulatory information

SARA Section 302 Extremely hazardous substances:

Hydrofluoric acid (conc. < 50%) (7664-39-3): Reportable quantity = 100 lbs., Threshold planning quantity = 100 lbs.

SARA Section 304 CERCLA:

Hydrofluoric acid (conc. < 50%) (7664-39-3): Reportable quantity = 100 (45.4) lbs. (kg) SARA Section 311/312 Hazards:

Fluorosilicic acid ... % (16961-83-4): Immediate (acute) health hazard

Isotridecanol ethoxylate (69011-36-5): Immediate (acute) health hazard

Ethanol (64-17-5): Fire hazard, Immediate (acute) health hazard

Hydrofluoric acid (conc. < 50%) (7664-39-3): Immediate (acute) health hazard SARA Section 313 Toxic release inventory:

Hydrofluoric acid (conc. < 50%) (7664-39-3): De Minimis limit = 1.0 %, Reportable threshold = Standard Clean Air Act

Section 112(b):

Hydrofluoric acid (conc. < 50%) (7664-39-3)

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: 2

Flammability: 0

Physical Hazard: 0

NFPA Hazard Ratings

Health: 2

Flammability: 0

Reactivity: 0

Unique Hazard:

Revision date: 09.03.2015

Revision No: 10,0

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

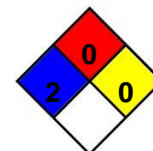
IC = Median immobilization concentration or median inhibitory concentration

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.



Safety Data Sheet according to 29 CFR 1910.1200(g)
KEIM Mineral Coatings of America, Inc
Revision date: 09.03.2015 Revision No: 10,0
KEIM CONCRETE Cleaner (Betonschnellreiniger)
0503-0041_US



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)
