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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 04.09.2020 Version number 15.0 Revision: 04.09.2020

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- · 1.1 Product identifier
- Trade name: KEIM LIME REMOVER (ÄTZFLÜSSIGKEIT)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Pre-treatment and cleaning agent for render surfaces.
- · Uses advised against All other uses are not recommended.
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

KEIM MINERAL PAINTS LTD

Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA

Tel +44 1952 231 250 / Fax +44 1952 231 251

www.keim.com / sales@keimpaints.co.uk

#### · Further information obtainable from:

**David Pratt** 

Telefon: +44 1952 231250
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1.4 Emergency telephone number:

GBK GmbH Global Regulatory Compliance Emergency number: +49(0)6132/84463

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS05 GHS07

- · Signal word Danger
- Hazard-determining components of labelling:

fluorosilicic acid

hydrofluoric acid

· Hazard statements

H302+H312 Harmful if swallowed or in contact with skin.

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H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe spray.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicablevPvB: Not applicable

### **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · Description:

Aqueous solution

Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 16961-83-4	fluorosilicic acid	9.9%
EINECS: 241-034-8	Skin Corr. 1B, H314	
Index number: 009-011-00-5		
Reg.nr.: 01-2119488906-19-xxxx		
CAS: 7664-39-3	hydrofluoric acid	<0.3%
EINECS: 231-634-8 Index number: 009-003-00-1	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; Acute Tox. 12, H330; Acute Tox. 14, H314	

Additional information: For the wording of the listed hazard phrases refer to section 16.

### **SECTION 4: First aid measures**

### · 4.1 Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

When seeing the doctor we suggest to present this safety data sheet.

#### After inhalation:

Supply plenty of fresh air and to be sure call for a doctor.

Keep affected person warm and quiet.

In case of unconsciousness place patient stably in side position for transportation.

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Do not use mouth to mouth or mouth to nose resuscitation.

Use a respiratory bag or breathing device.

· After skin contact:

Immediately rinse with water.

Rub in Ca-gluconate solution or Ca-gluconate gel immediately.

Seek medical treatment.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse mouth and throat well with water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

## **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

Water haze, extinguishing powder, alcohol resistant foam, CO2, sand.

Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Hydrogen fluoride (HF)

silicon tetrafluoride

- 5.3 Advice for firefighters
- · Specila protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

In case of fire do not breathe smoke, fumes and vapours.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Respect the protection rules (see section 7 a. 8).

Wear protective clothing.

Mount respiratory protective device.

Avoid contact with skin and eyes.

Keep people at a distance and stay on the windward side.

6.2 Environmental precautions:

Do not allow product to reach soil, sewage system or any water course.

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Inform respective authorities in case of seepage into water course or sewage system.

Follow local governmental rules and regulations.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose of the material collected according to regulations.

Fill in labelled, lockable containers.

Dispose contaminated material as waste according to item 13.

Clear contaminated areas thoroughly.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin and eyes.

Do not inhale aerosols.

See item 8 (8.2) for information about suitable protective equipment and technical precautions. Respect the protection rules.

Information about fire - and explosion protection:

The product is not flammable.

No special measures required.

## · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

#### Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

glass and silicate containing materials are affected

Drip pan to be provided.

#### Information about storage in one common storage facility:

Store away from metals.

Do not store together with alkalis (caustic solutions).

## Further information about storage conditions:

Store in a cool place.

Protect from frost.

Keep container tightly sealed.

Protect from heat and direct sunlight.

· Storage class: 8B

· 7.3 Specific end use(s) No further relevant information available.

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## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

#### 7664-39-3 hydrofluoric acid

WEL Short-term value: 2.5 mg/m³, 3 ppm Long-term value: 1.5 mg/m³, 1.8 ppm

#### · DNELs

#### 16961-83-4 fluorosilicic acid

Inhalative Acute - systemic effects 3.125 mg/m³ (worker) Long-term - systemic effects 1.875 mg/m³ (worker)

#### · PNECs

#### 16961-83-4 fluorosilicic acid

Aquatic compartment - freshwater | 0.9 mg/l (freshwater)

 $\cdot$  Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

#### · Personal protective equipment:

### · General protective and hygienic measures:

Avoid contact with the eyes and skin.

Do not inhale aerosols.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing.

### Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.

Combination filter B2/P2

· Protection of hands: Acid resistant gloves

#### · Material of gloves

suitable material e.g.: Natural rubber. NR

Recommended thickness of the material:  $\geq 0.5$  mm

Chloroprene rubber, CR

Recommended thickness of the material: ≥ 0.5 mm

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

Value for the permeation: level  $\geq$  6 (480 min)

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Face protection

Tightly sealed goggles

· Body protection:

Protective work clothing

Acid resistant protective clothing

· Limitation and supervision of exposure into the environment

See Section 12 and 6.2

No further relevant information available.

## **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

**Colour:** light pink, transparent

Odour: Characteristic
Odour threshold: Not determined

· pH-value at 20 °C: ~1\*

· Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: ~100 °C

· Flash point: Not applicable

· Flammability (solid, gas): Not applicable

· Ignition temperature: Not determined

· **Decomposition temperature:** Not determined

· **Auto-ignition temperature:** Product is not selfigniting.

• **Explosive properties:** Product does not present an explosion hazard.

· Explosion limits:

Lower: Not applicable Upper: Not applicable

· Vapour pressure at 20 °C: ~23 hPa

Density at 20 °C: 1-1.1\* g/cm³
 Relative density Not determined

Vapour densityEvaporation rateNot applicable.Not determined.

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· Solubility in / Miscibility with

water: Fully miscible

· Partition coefficient: n-octanol/water: Not applicable

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined

• 9.2 Other information 

\* The values are for freshly produced material and may

change with the time.

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Stable under normal conditions of storage and use.
- Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

- · 10.3 Possibility of hazardous reactions Corrosive action on metals.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Bases

Metals

· 10.6 Hazardous decomposition products:

In case of fire, the following can be released:

Hydrogen fluoride

silicon tetrafluoride

No hazardous decomposition products if stored and handled as prescribed.

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity

Harmful if swallowed or in contact with skin.

· LD/LC50 values relevant for classification:

### 7664-39-3 hydrofluoric acid

Inhalative LC 50/1h 0.82 mg/l (rat)

- · Primary irritant effect:
- Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

- · during inhalation: Irritating to respiratory system.
- · during swallowing: harmful

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- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Other information (about experimental toxicology):

Experimental analysis are not available.

The product was not tested. The statements on toxicology have been derived from the properties of the individual components.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Not applicable
- 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.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

Aquatic toxicity: 16961-83-4 fluorosilicic acid		
7664-39-3 l	nydrofluoric acid	
NOEC	231 mg/l (bacteria) (16h)	
EC 50/48h	97 mg/l (daphnia)	
EC 50/96h	43 mg/l (algae)	
LC 50/96 h	51 mg/l (fish)	
LC 50/48h	299 mg/l (fish)	

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · AOX-indication:

Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.

According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:

According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.

**General notes:** 

At present there are no ecotoxicological assessments.

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

12.5 Results of PBT and vPvB assessment

· **PBT**: Not applicable

· **vPvB**: Not applicable

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· 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

European waste catalogue

06 01 06\* other acids

- · Uncleaned packaging:
- Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary with cleansing agents.

## **SECTION 14: Transport information**

14. I UN-NUIIDEI		14.1	<b>UN-Number</b>
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· ADR, IMDG, IATA UN1778

14.2 UN proper shipping name

· ADR 1778 FLUOROSILICIC ACID FLUOROSILICIC ACID solution

· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA



· Class 8 Corrosive substances.

· Label

· 14.4 Packing group

· ADR, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Corrosive substances.

· Hazard identification number (Kemler code): 80

EMS Number: F-A,S-B

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Segregation groups	Acids
Stowage Category	A
14.7 Transport in bulk according to Ann	ex II
of Marpol and the IBC Code	Not applicable
· Transport/Additional information:	metal corrosive
· ADR	
· Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 m
· Transport category	2
Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 n
UN "Model Regulation":	UN 1778 FLUOROSILICIC ACID, 8, II

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to Regulation (EC) No 1272/2008

For information on labelling please refer to section 2 of this document.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · National regulations:
- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- Other regulations, limitations and prohibitive regulations
- · Please note:

TRGS 200 (Germany)

TRGS 500 (Germany)

TRGS 510 (Germany)

TRGS 900 (Germany)

· Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable

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15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

#### Department issuing SDS: KEIMFARBEN Germany, Product safety department

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

EC10: Effective concentration at 10% mortality rate. EC50: Half maximal effective concentration.

LC10: Lethal concentration at 10% mortality rate.

NOEC: No observed effect concentration.

REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

Acute Tox. 2: Acute toxicity - oral - Category 2

Acute Tox. 4: Acute toxicity - oral – Category 4
Acute Tox. 1: Acute toxicity - dermal – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

\* Data compared to the previous version altered.