



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 14.09.2010

Revision: 14.09.2010

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** **KEIM Concrete Cleaner**
- **Application of the substance / the preparation** Cleaning agent/ Detergent
- **Manufacturer/Supplier:**
 KEIM MINERAL PAINTS LTD
 Santok Building
 Deer Park Way
 Donnington Wood
 Telford
 Shropshire
 TF2 7NA
 United Kingdom
 Tel: +44 1952 231250
 Fax: +44 1952 231251
 Url: <http://www.keimpaints.co.uk>
- **Further information obtainable from:**
 David Pratt
 Telefon: +44 1952 231250
 E-Mail: sales@keimpaints.co.uk
- **Information in case of emergency:**
 GBK Gefahrgut Büro GmbH
 Emergency number: +49(0)6132/84463

2 Hazards identification

- **Hazard description:**
C Corrosive
- **Information concerning particular hazards for human and environment:**
R 34 Causes burns.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Cleaning agent on the basis of silicic acid

- **Dangerous components:**

CAS: 16961-83-4 EINECS: 241-034-8	fluorosilicic acid C; R 34	10-25%
CAS: 64-17-5 EINECS: 200-578-6	ethanol F; R 11	1-2.5%
CAS: 37205-87-1 Polymer	Isononylphenol, ethoxylated (>7-10 EO) Xn, Xi, N; R 22-41-51/53	0.1-1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

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4 First aid measures

- **General information:**
When seeing the doctor we suggest to present this safety data sheet.
Personal protection for the First Aider.
Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
Keep affected person warm and quiet.
- **After skin contact:**
Immediately rinse with water.
Call a doctor immediately.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Rinse mouth and throat well with water.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Hydrogen fluoride
silicon tetrafluoride
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Cool endangered receptacles with water spray.
In case of fire do not breath smoke, fumes and vapours.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective clothing.
Keep people at a distance and stay on the windward side.
- **Measures for environmental protection:**
Do not allow product to reach soil, sewage system or any water course.
Follow local governmental rules and regulations.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Fill in labelled, lockable containers.
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.

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Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Avoid contact with skin and eyes.
Keep receptacles tightly sealed.
Prevent formation of aerosols.
Ensure good ventilation/exhaustion at the workplace.
See item 8 for information about suitable protective equipment and technical precautions.
Respect the protection rules.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Keep container tightly closed . Do not empty container under pressure, non-pressure vessel
! Close opened containers carefully and store upright, to prevent any leakage.
glass and silicate containing materials are affected
Store only in the original receptacle.
Drip pan to be provided.
- **Information about storage in one common storage facility:**
Do not store together with alkalis (caustic solutions).
Store away from metals.
- **Further information about storage conditions:**
Store in a cool place.
Protect from frost.
Protect from heat and direct sunlight.
Keep container tightly sealed.
- **Storage class:** 8BL

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

64-17-5 ethanol

WEL	Long-term value: 1920 mg/m ³ , 1000 ppm
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale aerosols.
- **Respiratory protection:**
Use suitable respiratory protective device only when aerosol or mist is formed.
Combination filter B2/P2
- **Protection of hands:** Protective gloves

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- **Material of gloves**
suitable material e.g.:
Chloroprene rubber, CR
Recommended thickness of the material: ≥ 0.65 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 ≥ 6 (480 min)
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:**
Face protection
Tightly sealed goggles
- **Body protection:** Protective work clothing

9 Physical and chemical properties

· General Information	
· Form:	Fluid
· Colour:	transparent colourless
· Odour:	Pungent
· Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	>100°C
· Flash point:	Not applicable.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Oxidizing properties	Not applicable
· Vapour pressure:	Not determined
· Density at 20°C:	1.14* g/cm ³
· Vapour density	Not applicable
· Evaporation rate	Not applicable
· Solubility in / Miscibility with water:	Fully miscible.
· pH-value at 20°C:	1*
· Segregation coefficient (n-octanol/water): Not applicable	
· Viscosity:	
· Dynamic:	Not determined

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· **Additional information:**

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

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
Bases
metals
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous 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.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

16961-83-4 fluorosilicic acid

Oral	LD50	430 mg/kg (rat)
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7664-39-3 hydrofluoric acid

Oral	LD50	1276 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** caustic effect
- **during swallowing:**
Swallowing will lead to a caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**
Experimental analysis are not available.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Corrosive

12 Ecological information

- **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.

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- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 76/464 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.
Must not reach sewage water or drainage ditch undiluted or unneutralized.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.

- **European waste catalogue**

06 01 06*	other acids
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 8 Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1778
- **Packaging group:** II
- **Hazard label:** 8
- **Description of goods:** 1778 FLUOROSILICIC ACID
- **Limited quantities (LQ)** LQ22
- **Transport category** 2
- **Tunnel restriction code** E

- **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 1778
- **Label** 8
- **Packaging group:** II
- **EMS Number:** F-A,S-B
- **Marine pollutant:** NO
- **Segregation groups** Acids

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· **Proper shipping name:** FLUOROSILICIC ACID

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 8
 · **UN/ID Number:** 1778
 · **Label:** 8
 · **Packaging group:** II
 · **Proper shipping name:** FLUOROSILICIC ACID

· **Transport/Additional information:** metal corrosive

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

C Corrosive

· **Hazard-determining components of labelling:**

fluorosilicic acid

· **Risk phrases:**

34 Causes burns.

· **Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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 R-phrases**

11 Highly flammable.

22 Harmful if swallowed.

34 Causes burns.

41 Risk of serious damage to eyes.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Department issuing MSDS:** Product safety department

· **Contact:** Mrs. Popescu