

Safety Data Sheet

according to 1907/2006/EC, Article 31



Printing date 10.09.2010

Revision: 10.09.2010

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

- **Product details**
- **Trade name:** KEIM Concretal Dilution
- **Application of the substance / the preparation**
Silicate-based primer for external use.
Thinner, Diluent
- **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:** not applicable
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is based on the classification guidelines of the EU, of GefStoffV, endorsed by company information.
- **Additional information:** Alkaline product. Avoid contact with skin and eyes.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Liquid solution from silicic acid potassium salt, silica sol and organic additives
- **Dangerous components:** Void

4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Wash off immediately with water and soap and rinse well afterwards.

(Contd. on page 2)

GB



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2010

Revision: 10.09.2010

Trade name: KEIM Concretal Dilution

(Contd. of page 1)

- If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
 - **After swallowing:**
Do not induce vomiting.
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 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:**
Harmful and flammable vapour is released during pyrolysis.
In case of fire, the following can be released:
carbon oxide (CO_x)
silicon dioxid (SiO₂)
acrylic monomers
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
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:**
Respect the protection rules (see section 7 a. 8).
Ensure adequate ventilation
Avoid contact with skin and eyes.
Particular danger of slipping on leaked/spilled product.
- **Measures for environmental protection:**
Do not allow product to reach soil, sewage system or any water course.
Follow local governmental rules and regulations.
Dilute with plenty of water.
- **Measures for cleaning/collecting:**
Close drainage (Risk of blocking due to polymer precipitation)
Flush rests with sufficient amount of water.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 3)



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2010

Revision: 10.09.2010

Trade name: KEIM Concretal Dilution

(Contd. of page 2)

- Prevent formation of aerosols.
- 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:**
 - Store only in the original receptacle.
 - Unsuitable material for receptacles and pipes:
 - iron and ferrous metals
 - Suitable material for receptacles and pipes:
 - Polyethylene
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 - Keep container tightly sealed.
 - Protect from frost.
 - Store in a cool place.
- **Storage class:** 12

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:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - The usual precautionary measures are to be adhered to when handling chemicals.
 - Avoid contact with the eyes and skin.
 - Immediately remove all soiled and contaminated clothing
 - Do not inhale aerosols.
 - Wash hands before breaks and at the end of work.
- **Respiratory protection:**
 - In insufficient ventilated working areas and during spray-processing a breathing protection is necessary.
 - Combination filter A/P
- **Protection of hands:** Protective gloves
- **Material of gloves**
 - suitable material e.g.:
 - Nitrile rubber, NBR
 - Recommended thickness of the material: ≥ 0.4 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.

(Contd. on page 4)



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2010

Revision: 10.09.2010

Trade name: KEIM Concretal Dilution

(Contd. of page 3)

- **Eye protection:** Tightly sealed goggles
- **Body protection:** Protective work clothing

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	White
Odour:	Weak, characteristic

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C
Setting temperature / range:	~ 0°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:

1.05 * g/cm³

· Vapour density

non-applicable

· Evaporation rate

non-applicable

· Solubility in / Miscibility with water:

miscible

· pH-value at 20°C:

11 *

· Segregation coefficient (n-octanol/water):

non-applicable

· Viscosity:

Dynamic:

Not determined

· 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:

· **Dangerous reactions** No dangerous reactions known.

· Dangerous decomposition products:

At high temperature formation of flammable and harmful products.

In case of fire, the following can be released:

carbon oxide (COx)

silicon dioxid (SiO₂)

acrylic monomers

(Contd. on page 5)



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2010

Revision: 10.09.2010

Trade name: KEIM Concretal Dilution

No hazardous decomposition products if stored and handled as prescribed.

(Contd. of page 4)

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
Analogy
Oral | LD50 | > 2000 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** Frequent persistent contact with the skin may cause skin irritation.
- **on the eye:** In case of longer exposure, irritating effect is possible.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Method**
OECD 302 B
(analogy)
- **Analysing method** DOC- and CO₂-measurement
- **Degree of elimination:** > 70 %
- **Evaluation text:** According to OECD criteria the product is "inherently biodegradable".
- **Other information:**
Elimination in biological waste water treatment plants is effected by flocculation, precipitation and adsorption on sewage sludge.
- **Ecotoxicological effects:**
- **Acquatic toxicity:**
- **Fish toxicity LC 50:**
> 100 mg/l
(analogy)
- **Behaviour in sewage processing plants:**
- **Bacteria toxicity EC 50:**
> 100 mg/l
(analogy)
- **Other information:** Pretreat waste water with help of precipitation.
- **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. 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.

(Contd. on page 6)

GB



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2010

Revision: 10.09.2010

Trade name: KEIM Concretal Dilution

(Contd. of page 5)

- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

13 Disposal considerations

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

- **European waste catalogue**

06 02 99	wastes not otherwise specified
----------	--------------------------------

- **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:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:**
No dangerous good in sense of these transport regulations.

15 Regulatory information

- **Labelling according to EU guidelines:**
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version.
Observe the general safety regulations when handling chemicals.

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.

- **Department issuing MSDS:** Product safety department
- **Contact:** Mrs. Popescu