

Safety Data Sheet

according to 1907/2006/EC, Article 31



Printing date 23.09.2010

Revision: 23.09.2010

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

- **Product details**
- **Trade name:** **KEIM Biosil-Grund**
- **Application of the substance / the preparation** Silicate-based primer for interior use.
- **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 according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Aqueous dispersion of acrylic ester, styrene and fillers

- **Dangerous components:**

| | | |
|------------|------|---------|
| 12001-26-2 | Mica | 2.5-10% |
|------------|------|---------|

4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Quiet, fresh air, consult a doctor
- **After skin contact:**
 Wash off immediately with water and soap and rinse well afterwards.
 If skin irritation continues, consult a doctor.

(Contd. on page 2)



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.09.2010

Revision: 23.09.2010

Trade name: KEIM Biosil-Grund

(Contd. of page 1)

- **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:**
Harmful and flammable vapour is released during pyrolysis.
In case of fire, the following can be released:
carbon oxide (CO_x)
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.
The product itself is inflammable. The remaining polymer after ablating of the aqueous phase is flammable.

6 Accidental release measures

- **Person-related safety precautions:**
Respect the protection rules (see section 7 a. 8).
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:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
No dangerous substances are released.

GB

(Contd. on page 3)



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.09.2010

Revision: 23.09.2010

Trade name: KEIM Biosil-Grund

(Contd. of page 2)

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Keep receptacles tightly sealed.
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:**
The product is not flammable.
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:**
Do not store together with acids.
- **Further information about storage conditions:**
Protect from frost.
Store in a cool place.
Protect from heat and direct sunlight.
Keep container tightly sealed.
- **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:**

12001-26-2 Mica

| | |
|-----|---|
| WEL | Long-term value: 10* 0.8** mg/m ³ *total inhalable **respirable |
|-----|---|

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
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:**
Use suitable respiratory protective device only when aerosol or mist is formed.
Combination filter A/P
- **Protection of hands:** Protective gloves
- **Material of gloves**
suitable material e.g.:
Nitrile impregnated cotton-gloves
PVC or PE gloves
Recommended thickness of the material: ≥ 0.5 mm

(Contd. on page 4)

GB



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.09.2010

Revision: 23.09.2010

Trade name: KEIM Biosil-Grund

(Contd. of page 3)

Butyl rubber, BR

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

9 Physical and chemical properties

- **General Information**

| | |
|----------------|----------|
| Form: | Pasty |
| Colour: | White |
| Odour: | slightly |

- **Change in condition**

| | |
|-------------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Undetermined. |

- **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:** 1.45* g/cm³
- **Vapour density** Not applicable
- **Evaporation rate** Not applicable

- **Solubility in / Miscibility with water:** miscible

- **pH-value at 20°C:** 10 - 11*

- **Segregation coefficient (n-octanol/water):** Not applicable

- **Viscosity:**

- **Dynamic:** Not determined

- **Additional information:** * The values are for freshly produced material and may change with the time.

GB

(Contd. on page 5)



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.09.2010

Revision: 23.09.2010

Trade name: KEIM Biosil-Grund

(Contd. of page 4)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:** Acids
- **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)
acrylic monomers
No hazardous decomposition products if stored and handled as prescribed.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** Not determined
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** In case of longer exposure, slightly irritating effect is possible.
- **during swallowing:** Irritant effect possible
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**
Experimental analysis are not available.
- **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):**
- **Other information:**
Elimination in biological waste water treatment plants is effected by flocculation, precipitation and adsorption on sewage sludge.
- **Ecotoxicological effects:**
- **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:**
The product contains TiO₂.
- **General notes:**
At present there are no ecotoxicological assessments.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

GB

(Contd. on page 6)



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.09.2010

Revision: 23.09.2010

Trade name: KEIM Biosil-Grund

(Contd. of page 5)

13 Disposal considerations

- **Product:**
 - **Recommendation** Disposal must be made according to official regulations.
 - **European waste catalogue**
- | | |
|----------|--|
| 08 01 12 | waste paint and varnish other than those mentioned in 08 01 11 |
|----------|--|
- **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