



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 01.10.2010

Revision: 01.10.2010

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

- **Product details**
- **Trade name:** **KEIM Restauro-Top**
- **Application of the substance / the preparation** Repair mortar
- **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:**
Xi Irritant
- **Information concerning particular hazards for human and environment:**
R 37/38 Irritating to respiratory system and skin.
R 41 Risk of serious damage to eyes.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Additional information:**
This Product contains cement. Cement produces an alkaline reaction with moisture or water. Avoid contact with eyes and prolonged skin contact.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Preparation of cement, inorganic fillers and pigments

- **Dangerous components:**

CAS: 65997-15-1 EINECS: 266-043-4	Cement, portland, chemicals	Xi; R 37/38-41	10-25%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide		2.5-10%

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

4 First aid measures

- **General information:** When seeing the doctor we suggest to present this safety data sheet.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
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:**
Rinse mouth and throat well with water.
Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, foam, dry extinguishing powder
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:
carbon oxide (CO_x)
silicon dioxide (SiO₂)
- **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:**
Do not inhale dust.
Avoid contact with skin and eyes.
Respect the protection rules (see section 7 a. 8).
Product forms slippery surface when combined with water.
- **Measures for environmental protection:**
Do not allow product to reach soil, sewage system or any water course.
Follow local governmental rules and regulations.
- **Measures for cleaning/collecting:**
Close drainages (Risk of blocking)
Danger of slipping!
Avoid formation of dust.
Pick up mechanically.
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.

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7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Avoid contact with skin and eyes.
Keep receptacles tightly sealed.
Prevent formation of dust.
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 in the original containers in a cool and dry place.
Store only in unopened original receptacles.
- **Information about storage in one common storage facility:**
Do not store together with acids.
- **Further information about storage conditions:**
Avoid dust formations and deposits.
Protect from humidity and water.
- **Storage class:** 13

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:**

65997-15-1 Cement, portland, chemicals

WEL	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust
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13463-67-7 titanium dioxide

WEL	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable
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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
Vacuum clean contaminated clothing. Do not blow or brush off contamination.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale dust / smoke / mist.
- **Respiratory protection:**
When suspended particles/dust formation:
Filter: P
- **Protection of hands:** Protective gloves
- **Material of gloves**
suitable material e.g.:
Nitrile impregnated cotton-gloves
PVC or PE gloves

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Recommended thickness of the material: ≥ 0.5 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:	powdery, grainy
Colour:	Different according to colouring
Odour:	Characteristic

- **Change in condition**

Melting point/Melting range: Pyrolizes at melting point.

- **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 applicable

- **Density:**

Not determined.

- **Bulk density at 20°C:**

~ 1.40 * g/cm³

- **Vapour density**

non-applicable

- **Evaporation rate**

non-applicable

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

Slightly soluble.
miscible

- **pH-value:**

Alkaline
with water mixed

· **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.

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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:**
In case of fire, the following can be released:
carbon oxide (COx)
silicon dioxid (SiO₂)
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:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **during inhalation:** Irritating to respiratory system.
- **during swallowing:** Irritant effect possible
- **Sensitization:**
Product is reduced in chromate. Within the indicated storage time sensitization is not expected.
- **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:
Irritant

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.
- **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.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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13 Disposal considerations

- **Product:**
- **Recommendation**
Disposal must be made according to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
17 01 01	concrete

- **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 has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
Xi Irritant
- **Risk phrases:**
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
- **Safety phrases:**
2 Keep out of the reach of children.
22 Do not breathe dust.
24/25 Avoid contact with skin and eyes.
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.
46 If swallowed, seek medical advice immediately and show this container or label.

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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**

37/38 Irritating to respiratory system and skin.

41 Risk of serious damage to eyes.

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

· **Contact:** Mrs. Popescu

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