



# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 15.09.2010

Revision: 15.09.2010

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

- **Product details**
- **Trade name:** KEIM Royalan
- **Application of the substance / the preparation** Silicate exterior paint
- **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](mailto: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:**  
 R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**  
 The classification is based on the classification guidelines of the EU, of GefStoffV, endorsed by company information.

## 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Purely mineral fillers, potassium water glass, pure acrylate emulsion

- **Dangerous components:**

CAS: 60207-90-1 EINECS: 262-104-4	propiconazole	Xn, Xi, N; R 22-43-50/53	< 0.5%
CAS: 886-50-0 EINECS: 212-950-5	Terbutryn	N; R 50/53	< 0.5%

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

## 4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

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- **After skin contact:**  
Wash off immediately with water and soap and rinse well afterwards.  
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:**  
CO<sub>2</sub>, 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<sub>x</sub>)  
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).  
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.  
In case of seepage into the ground inform responsible authorities.
- **Measures for cleaning/collecting:**  
Close drainage (Risk of blocking due to polymer precipitation)  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Flush rests with sufficient amount of water.  
Dispose of the material collected according to regulations.  
Clear contaminated areas thoroughly.

### \* 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Prevent formation of aerosols.  
Keep receptacles tightly sealed.

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- 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:**  
 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.  
 Store away from metals.
- **Further information about storage conditions:**  
 Keep container tightly sealed.  
 Protect from frost.  
 Protect from heat and direct sunlight.
- **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:**  
 Immediately remove all soiled and contaminated clothing  
 Avoid contact with the eyes and skin.  
 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  
 Chloroprene rubber, CR  
 Recommended thickness of the material:  $\geq 0.5$  mm  
 Natural rubber, NR  
 Recommended thickness of the material:  $\geq 0.6$  mm  
 PVC gloves  
 Recommended thickness of the material:  $\geq 0.7$  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.
- **Penetration time of glove material**  
 Value for the permeation: Level  $\geq 6$  (480 min)

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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  
After contact with skin wash thoroughly with water.

### 9 Physical and chemical properties

#### · General Information

<b>Form:</b>	Pasty
<b>Colour:</b>	Different according to colouring
<b>Odour:</b>	Weak, characteristic

#### · Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	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:** ~ 1.39 \* g/cm<sup>3</sup>

· **Vapour density** Not applicable

· **Evaporation rate** Not applicable

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

miscible

· **pH-value at 20°C:** 11.4\*

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

#### · Viscosity:

**Dynamic at 20°C:** 900 - 1300 \* mPas

#### · Additional information:

\* The values are for freshly produced material and may change with the time.  
Product sprays when boiling

### 10 Stability and reactivity

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

#### · Materials to be avoided:

Acids  
metals

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- **Dangerous decomposition products:**

No hazardous decomposition products if stored and handled as prescribed.

At high temperature formation of flammable and harmful products.

In case of fire, the following can be released:

carbon oxide (CO<sub>x</sub>)

acrylic monomers

### 11 Toxicological information

- **Acute toxicity:**

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

**886-50-0 Terbutryn**

Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>2200 mg/l (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.

- **during swallowing:** Irritant effect possible

- **Sensitization:** Contains propiconazole. May produce an allergic reaction.

- **Other information (about experimental toxicology):**

Experimental analysis are not available.

- **Additional toxicological information:**

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

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

- **Additional ecological information:**

- **AOX-indication:**

The product can take influence in small measure 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 TiO<sub>2</sub>.

- **General notes:**

The product may not be released into the environment without control.

At present there are no ecotoxicological assessments.

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

### 13 Disposal considerations

- **Product:**

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

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- **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 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.
- **Risk phrases:**  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- **Special labelling of certain preparations:**  
Contains propiconazole. May produce an allergic reaction.

### 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**  
22 Harmful if swallowed.  
43 May cause sensitisation by skin contact.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Department issuing MSDS:** Product safety department
- **Contact:** Mrs. Popescu