



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-Grob**
- **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
- **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: 12001-26-2	Mica		2.5-10%
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:** When seeing the doctor we suggest to present this safety data sheet.
 (Contd. on page 2)



Safety Data Sheet

according to 1907/2006/EC, Article 31

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Trade name: KEIM Royalan-Grob

(Contd. of page 1)

- **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.
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, 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)
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.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **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.

(Contd. on page 3)

GB



Safety Data Sheet

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Printing date 15.09.2010

Revision: 15.09.2010

Trade name: KEIM Royalan-Grob

(Contd. of page 2)

- Keep receptacles tightly sealed.
- Ensure good ventilation/exhaustion at the workplace.
- Avoid contact with skin and eyes.
- 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.
 - Store in a cool place.
 - 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:**

12001-26-2 Mica

WEL	Long-term value: 10* 0.8** mg/m ³ *total inhalable **respirable
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- **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: ≥ 0.5 mm
 - Natural rubber, NR
 - Recommended thickness of the material: ≥ 0.6 mm
 - PVC gloves
 - 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.

(Contd. on page 4)



Safety Data Sheet

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Printing date 15.09.2010

Revision: 15.09.2010

Trade name: KEIM Royalan-Grob

(Contd. of page 3)

- **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
After contact with skin wash thoroughly with water.

9 Physical and chemical properties

· General Information

Form:	Pasty
Colour:	Different according to colouring
Odour:	Weak, characteristic

· 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:** Not determined.

· **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: Not determined

· 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.

(Contd. on page 5)



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 15.09.2010

Revision: 15.09.2010

Trade name: KEIM Royalan-Grob

(Contd. of page 4)

- **Materials to be avoided:**

Acids
metals

- **Dangerous decomposition products:**

No hazardous decomposition products if stored and handled as prescribed.
In case of fire, the following can be released:
carbon oxide (COx)
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:** Sensitization possible through skin contact.

- **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 TiO₂.

- **General notes:**

Do not allow product to reach ground water, water course or sewage system.

At present there are no ecotoxicological assessments.

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

GB

(Contd. on page 6)



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Revision: 15.09.2010

Trade name: KEIM Royalan-Grob

(Contd. of page 5)

13 Disposal considerations

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

- **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:**
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
60 This material and its container must be disposed of as hazardous waste.
- **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.

(Contd. on page 7)

GB



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(Contd. of page 6)

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

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