

Material Safety Data Sheet

According to 91/155 EEC



Printing date 28.11.2006

Reviewed on 14.11.2006

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

- **Product details**
- **Trade name:** KEIM Quarzil-historisch
- **Application of the substance / the preparation**
Mineral silicate paint system for use interior wall and ceiling use. The product is made using pure inorganic mineral fillers, earth oxide colour pigments and potassium silicate binder.
- **Manufacturer/Supplier:**
KEIMFARBEN GmbH & Co. KG
Keimstrasse 16
D-86420 DIEDORF
Telefon: +49(0)821/4802-0
Telefax: +49(0)821/4802-210
- **Further information obtainable from:** Product safety department

2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Silicate interior paint

- **Dangerous components:**

CAS: 1314-13-2	zinc oxide	N; R 50/53	≤ 2.5%
EINECS: 215-222-5			

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

3 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 according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

- **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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **Special hazards caused by the substance, its products of combustion or resulting gases:**

Harmful and flammable vapour is released during pyrolysis.
During heating or in case of fire poisonous gases are produced.
In case of fire, the following can be released:

carbon oxide (COx)
acrylic monomers
Hydrogen fluoride (HF)
Sulphur oxides (SOx)
Bariumoxide vapour

- **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:**

Avoid contact with skin and eyes.
Ensure adequate ventilation
Respect the protection rules (see section 7 a. 8).

- **Measures for environmental protection:**

Do not allow product to reach soil, sewage system or any water course.
Follow local governmental rules and regulations.
Inform respective authorities in case of seepage into water course or sewage system.

- **Measures for cleaning/collecting:**

Close drainages (Risk of blocking)
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.

- **Additional information:** See Section 13 for disposal information.

7 Handling and storage

- **Handling:**

- **Information for safe handling:**

See item 8 for information about suitable protective equipment and technical precautions. Respect the protection rules.
Open and handle receptacle with care.
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.

- **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.
Suitable material for receptacles and pipes:
Polyethylene
Unsuitable material for receptacles and pipes:
iron and ferrous metals

- **Information about storage in one common storage facility:**

Do not store together with acids.
Store away from metals.

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- **Further information about storage conditions:**
 Store receptacle in a well ventilated area.
 Keep container tightly sealed.
 Protect from frost.
 Protect from heat and direct sunlight.
 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:**
 Immediately remove all soiled and contaminated clothing
 Do not inhale dust / smoke / mist.
 Avoid contact with the eyes and skin.
 Wash hands before breaks and at the end of work.
- **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
 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.
- **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:** Safety glasses
- **Body protection:** Protective work clothing

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.

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· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Oxidizing properties	non-applicable
· Vapour pressure:	Not applicable
· Density at 20°C:	~ 1.60* g/cm ³
· Vapour density	non-applicable
· Evaporation rate	non-applicable
· Solubility in / Miscibility with water:	miscible
· pH-value at 20°C:	< 11.5 *
· Segregation coefficient (n-octanol/water):	non-applicable
· Viscosity:	
Dynamic at 20°C:	250 - 500 * mPas
· 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:**
Acids
metals
- **Dangerous decomposition products:**
No hazardous decomposition products if stored and handled as prescribed.
In case of fire, the following can be released:
Harmful vapour
Flammable gases/vapours
carbon oxide (COx)
acrylic monomers
Hydrogen fluoride
Sulphur oxides (SOx)
Bariumoxide vapour

11 Toxicological information

- **Acute toxicity:**
 - **LD/LC50 values relevant for classification:**
- | | | |
|-----------------------------|------|--------------------|
| 1314-13-2 zinc oxide | | |
| Oral | LD50 | > 5000 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.
 - **during swallowing:** Irritant effect possible
 - **Sensitization:** No sensitizing effects known.
 - **Other information (about experimental toxicology):** Experimental analysis are not available.

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- **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

- **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:**
- **Aquatic toxicity:**
Harmful to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.
- **Algae toxicity EC 50:**
> 10 - 100 mg/l (72 h)
(Analogy)
- **Other information:** Pretreat waste water with help of precipitation.
- **Additional ecological information:**
- **AOX-indication:** The product has no influence on the AOX 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 BaSO₄, TiO₂, ZnO, ZnS.
- **General notes:**
The product may not be released into the environment without control.
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**

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.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **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.

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· **Safety phrases:**

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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**

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

—GB—