



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.10.2013

Version number 10

Revision: 14.10.2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: KEIM Universal Render Fine**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**
 Dry mortar to be mixed with water and then used as a plaster for walls and ceilings indoors and outdoors.
 Renovation and thin layer exterior wall render, based on lime cement with a small amount of organic additives and fibre reinforcement.
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **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
- **1.4 Emergency telephone number:**
 GBK Gefahrgut Büro GmbH
 Emergency number: +49(0)6132/84463

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 Eye Dam. 1 H318 Causes serious eye damage.
 Skin Irrit. 2 H315 Causes skin irritation.
 STOT SE 3 H335 May cause respiratory irritation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Xi; Irritant
 R37/38-41: Irritating to respiratory system and skin. 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.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.

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- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Cement, portland, chemicals
calcium dihydroxide

- **Hazard statements**

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

- **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P271 Use only outdoors or in a well-ventilated area.
 P261 Avoid breathing dust.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P315 Get immediate medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.

- **2.3 Other hazards**

This Product contains cement. Cement produces an alkaline reaction with moisture or water. Avoid contact with eyes and prolonged skin contact.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Portland-cement, calcium dihydroxide, aggregate and additives

- **Dangerous components:**

CAS: 65997-15-1 EINECS: 266-043-4	Cement, portland, chemicals ☒ Xi R37/38-41 ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	10-25%
CAS: 1305-62-0 EINECS: 215-137-3 Reg.nr.: 01-2119475151-45-XXXX	calcium dihydroxide ☒ Xi R37/38-41 ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	2.5-10%

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

SECTION 4: First aid measures

- **4.1 Description of 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 out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
In case of fire do not breath smoke, fumes and vapours.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes.
Avoid formation of dust.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Product forms slippery surface when combined with water.
- **6.2 Environmental precautions:**
Do not allow product to reach soil, sewage system or any water course.
Follow local governmental rules and regulations.
- **6.3 Methods and material for containment and cleaning up:**
Close drainages (Risk of blocking)
Danger of slipping!
Avoid formation of dust.

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- Ensure adequate ventilation.
- Pick up mechanically.
- Dispose of the material collected according to regulations.
- Clear contaminated areas thoroughly.
- **6.4 Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Avoid contact with skin and eyes.
 - Keep receptacles tightly sealed.
 - Prevent formation of dust.
 - Ensure good ventilation/exhaustion at the workplace.
 - Any unavoidable deposit of dust must be regularly removed.
 - 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.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **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:**
 - Store in dry conditions.
 - Protect from humidity and water.
 - Avoid dust formations and deposits.
 - Keep container tightly sealed.
 - Protect from heat and direct sunlight.
- **Storage class:** 13
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **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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1305-62-0 calcium dihydroxide

WEL	Long-term value: 5 mg/m ³
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· DNELs
1305-62-0 calcium dihydroxide

Inhalative	Acute - local effects, worker	4 mg/m ³ (worker)
	Long-term - local effects, worker	1 mg/m ³ (worker)

· PNECs
1305-62-0 calcium dihydroxide

Aquatic compartment - freshwater	0.49 mg/l (freshwater)
Aquatic compartment - marine water	0.32 mg/l (marine water)
Sewage treatment plant	3 mg/l (sewage sludge)
Terrestrial compartment - soil	1080 mg/kg dw (soil)

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls
· Personal protective equipment:
· General protective and hygienic measures:

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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:

In a dusty environment wear suitable facemask.

Filter: FFP2

· Protection of hands:

Protective gloves

Alkaline resistant gloves

· Material of gloves

suitable material e.g.:

Nitrile impregnated cotton-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. 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.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

In a dusty environment wear protective goggles.

Tightly sealed goggles

· Body protection:

Protective work clothing

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After contact with skin wash thoroughly with water.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Powder
Colour:	White
· Odour:	Odourless
· Odour threshold:	Not determined.

· pH-value at 20 °C:	11.5-13.5* with water mixed
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· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable.

· Flash point:	Not applicable.
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· Flammability (solid, gaseous):	Not applicable.
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· Ignition temperature:

Decomposition temperature:	Not determined.
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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· Explosion limits:

Lower:	Not applicable.
Upper:	Not applicable.

· Oxidizing properties	Not applicable.
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· Vapour pressure:	Not applicable
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· Density:	Not determined.
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· Bulk density at 20 °C:	1.2 * kg/dm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.

· Solubility in / Miscibility with water at 20 °C:	< 2 g/l (Ca(OH) ₂) miscible
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· Partition coefficient (n-octanol/water):	Not applicable.
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· Viscosity:

Dynamic:	Not applicable.
Kinematic:	Not applicable.

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· 9.2 Other information

* The values are for freshly produced material and may change with the time.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Reacts with water alkaline and hardens.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Stable at environment temperature.
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Humidity
- **10.5 Incompatible materials:** Acids
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:**
 - **LD/LC50 values relevant for classification:**
- | | | |
|--------------------------------------|------|----------------------------------|
| 1305-62-0 calcium dihydroxide | | |
| Oral | LD50 | >2000 mg/kg (rat) (OECD 425) |
| Dermal | LD50 | > 2500 mg/kg (rabbit) (OECD 402) |
- **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

SECTION 12: Ecological information

- **12.1 Toxicity**
 - **Aquatic toxicity:**
- | | |
|--------------------------------------|---|
| 1305-62-0 calcium dihydroxide | |
| EC 50/48h | 49.1 mg/l (freshwater invertebrate organisms) |

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EC 50/72 h	184.57 mg/l (freshwater alga)
EC10/LC10 oder NOEC	2000 mg/kg (Soil macro-organisms)
	12000 mg/kg (soil microorganisms)
LC 50/96 h	457 mg/l (marine fish)
	50.6 mg/l (freshwater fish)
	158 mg/l (invertebrate marine organisms)
NOEC	21d; 1080 mg/kg (plants)
	72h; 48 mg/l (freshwater alga)
	14d; 32 mg/l (invertebrate marine organisms)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
At present there are no ecotoxicological assessments.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

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

- **European waste catalogue**

17 01 01	concrete
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- **Uncleaned packaging:**
- **Recommendation:**
Non contaminated packagings may be recycled.
Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|---------------------------------------|------|
| · 14.1 UN-Number | |
| · ADR, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, IMDG, IATA | Void |

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· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	
	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable.
· Transport/Additional information:	
	No dangerous good in sense of these transport regulations.
· UN "Model Regulation":	
	-

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
 - TRGS 200 (Germany)
 - TRGS 500 (Germany)
 - TRGS 510 (Germany)
 - TRGS 900 (Germany)
- **Product-Code/Giscode:** ZP1
- **15.2 Chemical safety assessment:**
 - A Chemical Safety Assessment has not been carried out.

SECTION 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 phrases**
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H335 May cause respiratory irritation.
 - R37/38 Irritating to respiratory system and skin.
 - R41 Risk of serious damage to eyes.
- **Department issuing MSDS:** KEIMFARBEN Germany, Product safety department
- **Contact:** Mrs. Popescu

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· Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
EC10: Effective concentration at 10% mortality rate.
EC50: Half maximal effective concentration.
LC10: Lethal concentration at 10% mortality rate.
NOEC: No observed effect concentration.
REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

· * Data compared to the previous version altered.

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