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

· **1.1 Product identifier**

· **Trade name:** **KEIM JANUS 1.2**
KEIM JANUS 0.5

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Application of the substance / the mixture**
Dry mortar for mixing with water and subsequent use as base plaster, levelling plaster and finishing plaster in interior areas (Janus 1.2)
Dry mortar for mixing with water and subsequent use as a finishing render in interior areas (Janus 0.5)

· **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 GB-Telford, Shropshire TF2 7NA
Tel +44 1952 231 250 / Fax +44 1952 231 251
www.keim.com / sales@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 GmbH Global Regulatory Compliance
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**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**
calcium dihydroxide
Cement, portland, chemicals

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· **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
· **Precautionary statements**

P280	Wear protective gloves/protective clothing/eye protection.
P261	Avoid breathing dust.
P271	Use only outdoors or in a well-ventilated area.
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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P362	Take off contaminated clothing.
P332+P313	If skin irritation occurs: Get medical advice/attention.

· **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:**
Mixture of clay, loam, hydrated lime, cement according to DIN EN 197-1, aggregates and additives

· **Dangerous components:**

CAS: 1305-62-0 EINECS: 215-137-3 Reg.nr.: 01-2119475151-45-xxxx	calcium dihydroxide Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	≥3-<8%
CAS: 65997-15-1 EINECS: 266-043-4	Cement, portland, chemicals Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	5-≤8%
CAS: 68475-76-3 EINECS: 270-659-9 Reg.nr.: 01-2119486767-17	Flue dust, portland cement Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	<1%

· **Additional information:**
The cement used is low in chromate, as its content of soluble chromium (VI) is below 2 ppm (0.0002%).
For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
When seeing the doctor we suggest to present this safety data sheet.
· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Do not use solvents or thinners.
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.
If symptoms persist consult doctor.
Do not induce vomiting.
Rinse mouth and throat well with water.
· **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.
Use fire extinguishing methods suitable to surrounding conditions.
· **For safety reasons unsuitable extinguishing agents:** Water
· **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
· **5.3 Advice for firefighters**
· **Special 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 breathe 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.

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Wear protective equipment. Keep unprotected people away.

· **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.
Use neutralising agent.
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.
Any unavoidable deposit of dust must be regularly removed.
Thorough dedusting.
See item 8 (8.2) for information about suitable protective equipment and technical precautions.
Respect the protection rules.

· **Information about fire - and explosion protection:**
No special measures required.
The product is not flammable.

· **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.

· **Storage class:** 13

· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**
· **Ingredients with limit values that require monitoring at the workplace:**
General dust limit (Germany): Long-term value: 1.25 * 10 ** mg / m³ 2 (II);
* respirable fraction ** inhalable fraction
The national general dust limit value must be observed.

1305-62-0 calcium dihydroxide	
WEL	Short-term value: 4* mg/m³ Long-term value: 5 1* mg/m³ *resprable fraction
65997-15-1 Cement, portland, chemicals	
WEL	Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust

· **DNELs**

1305-62-0 calcium dihydroxide		
Inhalative	Acute - local effects	4 mg/m³ (consumer) 4 mg/m³ (worker)
	Long-term - local effects	1 mg/m³ (consumer) 1 mg/m³ (worker)

· **PNECs**

1305-62-0 calcium dihydroxide	
Aquatic compartment - freshwater	0.49 mg/l (Freshwater)
Aquatic compartment - marine water	0.23 mg/l (Seawater)
Aquatic compartment - water, intermittent releases	0.49 mg/l (not specified)
Terrestrial compartment - soil	1,080 mg/kg dw (soil)
Sewage treatment plant	3 mg/l (Sewage treatment plant)

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

· **8.2 Exposure controls**
· **Individual protection measures, such as 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 aerosols.
· **Respiratory protection:**
In a dusty environment wear suitable facemask.
Filter: FFP2
· **Hand protection**
Alkaline resistant gloves

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Protective gloves

· **Material of gloves**
suitable material e.g.:
Nitrile impregnated cotton-gloves
Layer thickness: ≥ 0.15 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**
penetration time ≥ 480 min.
The determined penetration times according to EN 16523-1:2015 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/face protection**
In a dusty environment wear protective goggles.
Tight-fitting safety goggles (standard EN 166)

· **Body protection:**
Protective work clothing
After contact with skin wash thoroughly with water and apply lotion.

· **Environmental exposure controls**
No further relevant information available.
See Section 12 and 6.2

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**	
· **Physical state**	Solid
· **Colour:**	White - beige
· **Odour:**	Odourless
· **Odour threshold:**	Not determined
· **Melting point/freezing point:**	Not determined
· **Boiling point or initial boiling point and boiling range**	Not determined
· **Flammability**	Not determined
· **Lower and upper explosion limit**	
· **Lower:**	Not applicable
· **Upper:**	Not applicable
· **Flash point:**	Not applicable
· **Auto-ignition temperature:**	Not determined
· **Decomposition temperature:**	Not determined

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· **pH at 20 °C**	11.5-13.5* mixed with water
· **Viscosity:**	
· **Kinematic viscosity**	Not applicable
· **Dynamic:**	Not applicable
· **Solubility**	
· **water at 20 °C:**	< 2 g/l (Ca(OH)2) Slightly soluble.
· **Partition coefficient n-octanol/water (log value)**	Not applicable
· **Vapour pressure:**	Not applicable
· **Density and/or relative density**	
· **Density:**	Not determined.
· **Relative density**	Not determined.
· **Bulk density at 20 °C:**	~1.3* g/cm³
· **Vapour density**	Not applicable
· **9.2 Other information**	* The values are for freshly produced material and may change with the time.
· **Appearance:**	
· **Form:**	Powder
· **Important information on protection of health and environment, and on safety.**	
· **Explosive properties:**	Product does not present an explosion hazard.
· **Change in condition**	
· **Softening point/range**	
· **Oxidising properties:**	Not applicable
· **Evaporation rate**	Not applicable
· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Void
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void

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· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

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:**
Reacts exothermically with acids; the moist product is alkaline and reacts with acids, ammonium salts and base metals, e.g. aluminium, zinc, brass.
Hydrogen is formed during the reaction with base metals
· **10.6 Hazardous decomposition products:**
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
1305-62-0 calcium dihydroxide		
Oral	LD50	>2,000 mg/kg (rat) (OECD 425)
Dermal	LD50	>2,500 mg/kg (rabbit) (OECD 402)
68475-76-3 Flue dust, portland cement		
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	>6.04 mg/l /OECD 436 (rat) (Dust / Fog)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye damage.
· **during inhalation:**
Irritating to respiratory system.
Irritant effect possible.
· **during swallowing:** Irritant effect possible
· **Respiratory or skin sensitisation**
Product is reduced in chromate. Within the indicated storage time sensitization is not expected.

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· **Other information (about experimental toxicology):**
Experimental analysis are not available.
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.
· **Subacute to chronic toxicity:**
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** Not applicable
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
1305-62-0 calcium dihydroxide	
EC 50/48h	49.1 mg/l (daphnia) (OECD 202)
EC 50/3h	300.4 mg/l (bacteria) (OECD 209)
EC 50/72 h	184.57 mg/l (Algae) (OECD 201)
LC 50/96 h	50.6 mg/l (fish) (OECD 203)
68475-76-3 Flue dust, portland cement	
NOEC	50 mg/l (daphnia) (OECD 211)
EC 50/48h	>100 mg/l (daphnia) (OECD 202)
EC 50/72 h	22.4 mg/l (Algae) (OECD 201)
LC 50/96 h	>11.1 mg/l (fish) (OECD 203)

· **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.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:**
The statements on ecotoxicology have been derived from the properties of the individual components.
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

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Disposal must be made according to official regulations.
Must not be disposed with household garbage. Do not allow product to reach sewage system.
Unused remainders of the product should be regarded as hazardous waste.
Recommendation for non-reusable residues: Mix with water and allow to harden.
Allow wet product and product sludge to harden and do not allow to get into drains or waterways.
Dispose hardened product as concrete waste.

· **European waste catalogue**	
17 01 01	concrete

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

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR, IMDG, IATA**	Void
· **14.2 UN proper shipping name**	
· **ADR, IMDG, IATA**	Void
· **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 Maritime transport in bulk according to IMO instruments**	Not applicable
· **UN "Model Regulation":**	Void

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Poisons Act**

· **Regulated explosives precursors**
None of the ingredients is listed.

· **Regulated poisons**
None of the ingredients is listed.

· **Reportable explosives precursors**
None of the ingredients is listed.

· **Reportable poisons**
None of the ingredients is listed.

· **Labelling according to Regulation (EC) No 1272/2008**
For information on labelling please refer to section 2 of this document.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **REGULATION (EC) No 1907/2006 ANNEX XVII**

· **ANNEX I EXPORT SUBSTANCES DECLARABLE FOR EXPLOSIVES in quantities > 1%.**
None of the ingredients is listed.

· **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)
· **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.

· **Department issuing SDS:** KEIMFARBEN Germany, Product safety department

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· **Abbreviations and acronyms:**
WEL: Workplace exposure limit
ADR: Accord relatif au transport international 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 Harmonised 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)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK 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.
UK REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3