



Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.05.2024



Version number 13.2 (replaces version 13.1)

Revision: 17.05.2024

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

- **1.1 Product identifier**
- **Trade name: KEIM RESTAURO-FUGE**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Sealing mortar
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KEIMFARBEN GMBH
Keimstraße 16 / 86420 Diedorf
Tel. +49 (0)821 4802-0
Fax +49 (0)821 4802-210
www.keim.com / info@keimfarben.de
- **Further information obtainable from:**
Product safety department
Telefon: 49(0)821/4802-138
E-Mail: sdb.info@keimfarben.de
- **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.
STOT SE 3 H335 May cause respiratory irritation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Cement, portland, chemicals
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

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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:** White Portland cement, aggregates and additives.

Dangerous components:

CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂) substance with a Community workplace exposure limit	70-80%
CAS: 65997-15-1 EINECS: 266-043-4	Cement, portland, chemicals ☠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	10-20%
CAS: 1314-98-3 EINECS: 215-251-3 Reg.nr.: 01-2119475779-15-xxxx	zinc sulphide substance with a Community workplace exposure limit	≥2.5-≤10%

Additional information:

White Portland cement is low in chromate due to the process, i.e. the content of water-soluble chromium(VI) is less than 0.0002 %, even without the addition of chromate reducer.

This product contains <1 % respirable crystalline quartz.

For the wording of the listed hazard 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.

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- **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 mouth and throat well with 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**
- **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.
Respect the protection rules (see section 7 and 8).
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.
Ensure adequate ventilation.
Pick up mechanically.
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.

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· 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 (8.2) 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

· GISCode ZP1 Zementhaltige Produkte, chromatarm

· 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:

General dust limit (Germany): Long-term value: $1.25 \cdot 10^{-2}$ mg / m³ (II);

* respirable fraction ** inhalable fraction

The national general dust limit value must be observed.

14808-60-7 Quartz (SiO₂)

BOELV (EU)

Long-term value: 0.1* mg/m³

*respirable fraction

MAK (Germany)

alveolengängige Fraktion

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65997-15-1 Cement, portland, chemicalsAGW (Germany) Long-term value: 5 E mg/m³
DFG**1314-98-3 zinc sulphide**MAK (Germany) Long-term value: 0.1A* 2E** mg/m³
*alveolengängig; **einatembar

- **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.
 - Avoid contact with the eyes and skin.
 - Do not inhale dust / smoke / mist.
 - Wash hands before breaks and at the end of work.
 - Immediately remove all soiled and contaminated clothing.
- **Respiratory protection:**
 - In a dusty environment wear suitable facemask.
 - Filter: FFP2
- **Hand protection**
 - 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 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.
 - Tightly sealed goggles
- **Body protection:**
 - Protective work clothing
 - After contact with skin wash thoroughly with water and apply lotion.
- **Environmental exposure controls**
 - See Section 12 and 6.2

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No further relevant information available.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Solid
· Colour:	Different, according to colouring.
· 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 applicable
· Lower and upper explosion limit	
· Lower:	Not applicable
· Upper:	Not applicable
· Flash point:	Not applicable
· Auto-ignition temperature:	Not determined
· Decomposition temperature:	Not determined
· pH at 20 °C	~12 * mixed with water
· Viscosity:	
· Kinematic viscosity	Not applicable
· Dynamic:	Not applicable
· Solubility	
· water:	Miscible
· Partition coefficient n-octanol/water (log value)	Not applicable
· Vapour pressure:	Not applicable
· Density and/or relative density	
· Density at 20 °C:	1.5-1.7* g/cm ³
· Relative density	Not determined
· Vapour density	Not applicable.
· Particle characteristics	
See section 3.	

· 9.2 Other information

· Appearance:	* The values are for freshly produced material and may change with the time.
· Form:	powdery, grainy
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.

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- **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
- **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** Stable under normal conditions of storage and use.
- **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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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LD/LC50 values relevant for classification:**1314-98-3 zinc sulphide**

Oral	LD50	>15,000 mg/kg (rat) (OECD 401)
Inhalative	LC50/4 h	>5.7 mg/l /OECD 403 (rat) (Dust / Fog)

· Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye damage.

· during inhalation: Irritating to respiratory system.**· during swallowing:** Irritant effect possible**· Respiratory or skin sensitisation**

This product contains white cement.

By using white Portland cement, the content of sensitizing chromium (VI) is below 0.0002% in the cement content of the usable product.

Therefore, there is no risk of sensitization by chromate.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.**· Carcinogenicity** Based on available data, the classification criteria are not met.**· Reproductive toxicity** Based on available data, the classification criteria are not met.**· STOT-single exposure**

May cause respiratory irritation.

· STOT-repeated exposure Based on available data, the classification criteria are not met.**· Aspiration hazard** Based on available data, the classification criteria are not met.**· 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 (carcinogenicity, 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:****1314-98-3 zinc sulphide**

EC 50/48h (static)	100 mg/l (daphnia) (OECD 202)
EC 50/96h (static)	100 mg/l (fish) (OECD 203)
EC 50/72 h (static)	100 mg/l (algae) (OECD 202)

· 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.

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· **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** No further relevant information available.

- **Other information:** Elimination from the water by means of sedimentation.

· **Additional ecological information:**

· **AOX-indication:**

Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.

- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**

The product contains ZnS.

· **General notes:**

At present there are no ecotoxicological assessments.

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.

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

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.

· **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 with cleansing agents.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

Void

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· 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
· Transport/Additional information:	No dangerous good in sense of these transport regulations.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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.

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Not relevant.

· **ANNEX I EXPORT SUBSTANCES DECLARABLE FOR EXPLOSIVES in quantities > 1%.**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

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· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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)

· Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable**· 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.

· Department issuing SDS: KEIMFARBEN Germany, Product safety department**· Version number of previous version:** 13.1**· Abbreviations and acronyms:**

BOELV: Binding Occupational Exposure Limit Values

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

AGW: Arbeitsplatzgrenzwert (Germany)

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)

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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
· * **Data compared to the previous version altered.**

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