



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.02.2017



Version number 12

Revision: 16.02.2017

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

- **1.1 Product identifier**
- **Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture**
Dry mortar to be mixed with water and then used as a plaster for walls and ceilings indoors and outdoors.
Mineral thin-layer, lightweight plaster.
- **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.
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
calcium dihydroxide

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)

(Contd. of page 1)

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.
- 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: Portland-cement, calcium dihydroxide, aggregates and additives

Dangerous components:

| | | |
|--|---|---------|
| CAS: 65997-15-1 EINECS: 266-043-4 | Cement, portland, chemicals ☠ 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 ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; STOT SE 3, H335 | 2.5-10% |
| CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-xxxx | titanium dioxide substance with a Community workplace exposure limit | ≤ 2.5% |

Additional information: 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.

(Contd. on page 3)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)

(Contd. of page 2)

- **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**
- **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 a. 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.

(Contd. on page 4)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)

(Contd. of page 3)

· **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 |
|-----|---|

1305-62-0 calcium dihydroxide

| | |
|-----|--------------------------------------|
| WEL | Long-term value: 5 mg/m ³ |
|-----|--------------------------------------|

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)

(Contd. of page 4)

13463-67-7 titanium dioxide

| | |
|-----|---|
| WEL | Long-term value: 10* 4** mg/m ³ *total inhalable **respirable |
|-----|---|

· **DNELs****1305-62-0 calcium dihydroxide**

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

13463-67-7 titanium dioxide

| | | |
|------------|--|-------------------------------|
| Oral | Long-term - systemic effects, consumer | 700 mg/kg/day (consumer) |
| Inhalative | Long-term - local effects, worker | 10 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) |
| Terrestrial compartment - soil | 1080 mg/kg dw (soil) |
| Sewage treatment plant | 3 mg/l (sewage sludge) |

13463-67-7 titanium dioxide

| | |
|--|--|
| Aquatic compartment - freshwater | 0.127 mg/l (freshwater) |
| Aquatic compartment - marine water | 1 mg/l (marine water) |
| Aquatic compartment - water, intermittent releases | 0.61 mg/l (not specified) |
| Aquatic compartment - sediment in freshwater | 1000 mg/kg sed dw (sediment fresh water) |
| Aquatic compartment - sediment in marine water | 100 mg/kg sed dw (sediment marine water) |
| Terrestrial compartment - soil | 100 mg/kg dw (soil) |
| Sewage treatment plant | 100 mg/l (sewage treatment plant) |

· **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.
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

· **Protection of hands:**

Protective gloves
Alkaline resistant gloves

(Contd. on page 6)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)

(Contd. of page 5)

- **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
After contact with skin wash thoroughly with water and apply lotion.
- **Limitation and supervision of exposure into the environment** See Section 12 and 6.2

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - **Form:** Powder
 - **Colour:** According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** 11.5-13.5*
with water mixed
- **Change in condition**
 - **Melting point/freezing point:** Undetermined.
 - **Initial boiling point and boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.

(Contd. on page 7)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)

(Contd. of page 6)

| | |
|---|--|
| · Explosive properties: | Product does not present an explosion hazard. |
| · Explosion limits: | |
| Lower: | Not applicable. |
| Upper: | Not applicable. |
| · Oxidising properties | Not applicable. |
| · Vapour pressure: | Not applicable. |
| · Density at 20 °C: | 1.1-1.6* g/cm 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 |
| · Partition coefficient: n-octanol/water: | Not applicable. |
| · Viscosity: | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · 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** No further relevant information available.
- **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 toxicological effects**
- **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 | >2000 mg/kg (rat) (OECD 425) |
|------|------|------------------------------|

(Contd. on page 8)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)

(Contd. of page 7)

| | | |
|------------------------------------|----------|----------------------------------|
| Dermal | LD50 | > 2500 mg/kg (rabbit) (OECD 402) |
| 13463-67-7 titanium dioxide | | |
| Oral | LD50 | >5000 mg/kg (rat) (OECD 425) |
| Dermal | LD50 | >5000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | > 6.8 mg/l (rat) |
| | NOAEL | 3500 mg/kg (rat) |

- **Primary irritant effect:**
- **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**
Product is reduced in chromate. Within the indicated storage time sensitization is not expected.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** not applicable
- **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.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1305-62-0 calcium dihydroxide

| | |
|---------------------|--|
| NOEC | 72h; 48 mg/l (freshwater alga) 14d; 32 mg/l (invertebrate marine organisms) |
| EC10/LC10 oder NOEC | 2000 mg/kg (Soil macro-organisms) 12000 mg/kg (soil microorganisms) |
| NOEC | 21d; 1080 mg/kg (plants) |
| EC 50/48h | 49.1 mg/l (freshwater invertebrate organisms) |
| EC 50/72 h | 184.57 mg/l (freshwater alga) |
| LC 50/96 h | 457 mg/l (marine fish) 50.6 mg/l (freshwater fish) |

(Contd. on page 9)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)

(Contd. of page 8)

| | |
|------------------------------------|--|
| | 158 mg/l (invertebrate marine organisms) |
| 13463-67-7 titanium dioxide | |
| NOEC | (10d) >14989 mg/kg (daphnia) |
| EC 50/72 h | >10000 mg/l (algae) 16 mg/l (freshwater alga) |
| LC 50/96 h | >10000 mg/l (marine fish) >100 mg/l (freshwater fish) |
| LC 50/48h | >100 mg/l (daphnia) |

- **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.
- **Ecotoxicological effects:**
- **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 TiO₂.
- **General notes:**
At present there are no ecotoxicological assessments.
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
- **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 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 |
|----------|----------|

- **Uncleaned packaging:**
- **Recommendation:**
Non contaminated packagings may be recycled.
Disposal must be made according to official regulations.

(Contd. on page 10)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: **KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)**

(Contd. of page 9)

- **Recommended cleansing agents:** Water, if necessary 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 |
| · 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 Marpol and the IBC Code | 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.
- **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

(Contd. on page 11)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.02.2017

Version number 12

Revision: 16.02.2017

Trade name: KEIM BRILLANTPUTZ (ALL TYPES / ALLE TYPEN)

(Contd. of page 10)

· **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

· **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 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)
- 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
- SVHC: Substances of Very High Concern
- 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)
- 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.**