

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



Printing date 28.05.2015

Version: 4 (GB)

Revision: 28.05.2015

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

**1.1 Product identifier**Trade name: **Duo-Kleber****1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**Application of the substance / the preparation:** Mortar, adhesive, screed, concrete.**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Knauf Gips KG  
Postfach 10  
97343 Iphofen  
Deutschland  
Tel +49 (0)9323/31 - 0  
Fax +49 (0)9323/31 - 277

**Further information obtainable from:**

Technical information service  
Tel +49 (0)9001/31-2000 (see point 16)  
E-mail Knauf-Direkt@Knauf.de

**1.4 Emergency telephone number:**

Hotline for symptoms of poisoning and embryonic toxicology, Berlin  
Tel +49 (0)30-19240

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

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.

**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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Trade name: **Duo-Kleber****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**

P102 Keep out of reach of children.  
 P261 Avoid breathing dust.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

When properly stored dry, low in chromate for at least 9 months from date of manufacture.

**2.3 Other hazards**

The mixture produces an alkaline reaction when exposed to moisture. Please take this into consideration when processing the material and avoid extended contact with the skin or make sure to wear gloves.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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**SECTION 3: Composition/information on ingredients****Chemical characterisation: Mixtures****Description:** Dry mortar made up of mineral bonding agents, aggregates 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	5-50%
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	5-50%

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

The hazard declaration "irritant" does not apply to dry powder but only to the admittance of moisture or water (alkaline reaction).

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Low in chromate according to EU-Regulation 1907/2006 (REACH).  
Materials with a threshold value for exposure in the workplace – see point 8.

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**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:** Change any soiled or impregnated clothing.**After inhalation:**IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
(P304+340)

Seek medical treatment in case of complaints.

**After skin contact:**

IF ON SKIN: Wash with plenty of soap and water. (P302+352b)

If skin irritation occurs: Get medical advice/attention. (P332+313)

**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**

After eye contact: Causes serious eye damage.

Irritating to respiratory system and skin.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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**SECTION 5: Firefighting measures****General information:**

Product itself does not burn.

For surrounding fires following points should be observed.

**5.1 Extinguishing media****Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.**For safety reasons unsuitable extinguishing agents:**

Do not use water to extinguish surrounding fires because the calcium oxide that forms may react to the water as heat develops.

**5.2 Special hazards arising from the substance or mixture**

The calcium hydroxide breaks down into calcium oxide and water if heated to over 580 °C.

**5.3 Advice for firefighters****Protective equipment:** Wear self-contained respiratory protective device.**Additional information** The product is not flammable.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective clothing.

Ensure adequate ventilation

Do not inhale dust.

**6.2 Environmental precautions:** Do not allow to enter sewers / surface or ground water.**6.3 Methods and material for containment and cleaning up:**

Avoid formation of dust.

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Pick up (dry) mechanically.

**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 the eyes and skin.

Prevent formation of dust.

Do not inhale dust.

Ensure good ventilation / exhaustion at the workplace.

Wash thoroughly after handling. (P264)

Take off contaminated clothing and wash before reuse. (P362)

**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:** Do not store together with acids.**Further information about storage conditions:**

Store in dry conditions.

Keep container tightly sealed.

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

\* **SECTION 8: Exposure controls/personal protection**

**Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 65997-15-1 Cement, portland, chemicals (5-50%)**WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*inhalable dust \*\*respirable dust

**CAS: 1305-62-0 calcium dihydroxide (5-50%)**WEL Long-term value: 5 mg/m<sup>3</sup>**General dust:** 1.25 mg/m<sup>3</sup> A (DE) 4 mg/m<sup>3</sup> A (GB), 10 mg/m<sup>3</sup> E (GB, DE)**Remark** A = alveolar fraction, E = inhalable fraction**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Use skin protection cream for skin protection.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

**Respiratory protection:** Wear dust mask FFP2 if dust forms.

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**Trade name: Duo-Kleber****Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

**Material of gloves** Cotton gloves impregnated with nitrile.

**Penetration time of glove material**

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

**Eye protection:**

Eye glasses with side protection.

**Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Powder
<b>Colour:</b>	White, grey, or colored.
<b>Odour:</b>	Light earthy odor.
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	11-13 (saturated solution) at 25 °C

**Change in condition**

**Melting point/Melting range:** Not applicable.

**Boiling point/Boiling range:** Not applicable.

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** Not applicable.

**Decomposition temperature:** 580 °C (break down into CaO and H<sub>2</sub>O)

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Vapour pressure:** Not applicable.

**Density:** Not determined.

**Bulk density:** 600-1500 kg/m<sup>3</sup>

**Relative density:** Not determined.

**Vapour density:** Not applicable.

**Evaporation rate:** Not applicable.

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**Trade name: Duo-Kleber****Solubility in / Miscibility with****water:**for Ca(OH)<sub>2</sub> 1.650 mg/l at 20 °C**Partition coefficient (n-octanol/water):** Not applicable.**Viscosity:****Dynamic:**

Not applicable.

**Kinematic:**

Not applicable.

**9.2 Other information**

No further relevant information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

Avoid damp conditions.

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:**

Cement and/or calcium hydroxide react with aluminum and brass when water is added through the formation of hydrogen.

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Primary irritant effect:****Skin corrosion/irritation** Irritant to skin and mucous membranes.**Serious eye damage/irritation** Strong irritant with the danger of severe eye injury.**Respiratory or skin sensitisation** No sensitising effects known.**Additional toxicological information:**

Dusts could cause irritation to the upper respiratory system.

Sustained and repeated inhalation of the dust could cause damage to the respiratory system.

Ingestion of larger quantities can cause irritation to the digestive tract.

Serious skin damage could be the result of this product being in contact with the skin for prolonged periods when the skin is moist.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:** No further relevant information available.**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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**Trade name: Duo-Kleber****Additional ecological information:****General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**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 Waste treatment methods****Recommendation** Disposal must be made according to official regulations.**European waste catalogue**

17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

**Uncleaned packaging:****Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

**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:**

Not applicable.

**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.

**UN "Model Regulation":**

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**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 (VwVwS Germany 17.05.1999): slightly hazardous for water.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**Trade name: Duo-Kleber****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:** Knauf Gips KG, Abteilung Nachhaltigkeit und REACH, 97343 Iphofen**Contact:**

Technical information service (see point 1)

A call to Knauf Direkt will be charged at 0.39 € per minute. Callers, the telephone numbers of whom are not saved in the Knauf Gips KG address database, e.g. private property owners or non-customers, will pay 1.69 € per minute from the German network. Callers using mobile telephones will be charged according to the network provider and tariff.

**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)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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