

SAFETY DATA SHEET

Conforms to Regulation (EG) No. 1907/2006

Product name : Fireguard Glue
Date of revision : 12.01.2016
Date of issue : 12.01.2016

Version : 03.60.01



01. Identification of the substance/ mixture and of the company/ undertaking

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Identification of the substance/ mixture / here: mixture

Fireguard Glue, Fire protection glue

Other identifications

Application of this substance/ mixture / here: mixture

Fire protection glue for sealing and assembling fire-protection panels.

Relevant identified uses of the substance / mixture

Sector of use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Product Category

PC1 Adhesives, sealants

Process Category

PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC10 Roller application or brushing

Environmental Release Category

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles.

No further relevant information available.

Manufacturer/ Supplier

KBO Kleine-Brockhoff u. Oelschläger GmbH

Street

Am Schölsbach 19

Country indicator/ postal code/ location

DE – 46244 Bottrop-Kirchhellen

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Emergency telephone number

As above (during the office hours: Monday –Thursday from 8 till 16 / Friday from von 8 till 12 o'clock)

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02. Hazards identification

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Classification

Classification according to Regulation (EC) No. 1272/2008 (Annex II)



GHS07
H315 Causes skin irritation.
H319 Causes serious eye irritation.

- Label elements
- Identification according to Regulation (EC) No. 1272/2008
- Hazardous pictograms



GHS07

- Signal word Warning
- Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

- Safety instructions

P264 Wash with water and soap thoroughly after handling.
P280 Wear protective gloves and eye protection.
P 302+P352 IF ON SKIN: Wash with plenty of water/soap.
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention
P362+P364 Take off contaminated clothing and wash it before reuse.

Information to health hazards

The product with the main constituent of Kaolin (contains respirable quartz) is used as a lumpy solid (plastic material wherein the Kaolin is completely bounded) and therefore provided according to TRGS 559 (mineral dust) Point 3.3 No. 4a, delivered with low dust.

While cleaning/ disposal after using it may be possible to form respirable crystalline silica (quartz dust). Longer-term inhalation of silica dust may cause the black lung disease (silicosis).
Avoid the inhalation during longer-term excess of AGW. See Chapter 8 and 15.

Other hazards

The product is alkaline.
Does not meet the criteria for PBT or vPvB according to Annex XIII.

03. Composition/ information on ingredients

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Substances

Description: Mixture of Kaolin (Aluminisilikathydrat , $Al_2Si_2O_5(OH)_4$) in aqueous alkali silicate.

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Dangerous components:

Sodium silicate (Alkali silicate solution)		
EG-No: 215-687-4 REACH Reg.No. 01-2119448725-31	GHS07; Warning, H315, H319	50-60%
Kaolin		
CAS-No. 1332-58-7 EINECS-No.: 310-194-1	STOT RE1, H372	25-35%
CAS-No. 1318-74-7 EINECS-No.: 215-286-4 CAS-No. 12001-26-2 EINECS-No.: 310-127-6 CAS-No. 14808-60-7 EINECS-No.: 238-878-4	Natural mineral components of Kaolin Kaolinit no classification Glimmer (mica) no classification Quarz no classification	
Quartz		
CAS-No. 014808-60-7 EINECS No. 238-878-7	Regulation (EG) 1272/2008: STOT RE2, H373 Directive 67/548/EWG: no classification	10-15%

Kaolin contains more than 10% respirable quartz and is therefore classified as STOT RE1.
Declaration for qualifying see chapter 15.
Full text of risk phrases listed in chapter 16.

04. First aid measures

General information: Immediately remove any clothing contaminated by the product.

After inhalation: not applicable.

After skin contact: Wash with soap and water. Skin care.

After eye contact:

Rinse opened eye for several minutes under running water. Creating a bandage with sterile gauze. If symptoms persist, consult eye specialist/ eye doctor.

After swallowing:

Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

05. Fire fighting measures

Suitable extinguishing media: Non-flammable.

Unsuitable extinguishing media: Non-flammable.

Special hazards arising from the substance or mixture: Not known

Advice for fire-fighters: Not applicable.

Additional information: Not applicable

06. Accidental release measures

General information: Danger of slipping on spilled product.

Personal precautions: Avoid contact with eyes and skin. See chapters 7 and 8.

Environmental precautions

Do not allow to enter drainage system, surface or ground water. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways).

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Methods and material for containment and cleaning up

Mechanical handling, avoid dust formation. Dispose of contaminated material properly.

07. Handling and storage

Precautions for safe handling

Keep container/ tubes tightly closed. Avoid contact with skin and eyes. See chapter 8. Pay attention according the minimum standards of TRGS 500.

Storage

Requirements to be met by storerooms and containers: Keep bags tightly closed. Protect from frost.

Information about storage in one common storage facility: Store away from strongly acidic products. Store away from oxidizing agents.

(Germany) Lagerklasse : LGK 10-13 Non-combustible solids (gem. TRGS 510)

08. Exposure controls/ personal protection

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Additional information about design of technical systems: No further data, see item 7.

Additional information:

Only when dust developments occur during handling or processing (e.g. grinding the dried paste), the following dust limits must be observed.

Components with critical values that require monitoring at the workplace:	
14808-60-7 Quartz	
Quartz, respirable (A)*	TRGS 906 List of carcinogenic activities or procedures according to Section 3 Subs. 2 No. 3 GefStoffV" (July 2005)
WEL (Germany) Dust limit (respirable part A) gen. dust limit (breathable part E)	1,25 mg/m ³ TRGS 900 Oct. 2014 3 mg/m ³ TRGS 900/901 Jan. 2006 (transitional until 2018) 10 mg/m ³ TRGS 900/901 Jan. 2006

(*including Cristobalite and Tridymite)

Additional information: See homepage www.nepsi.eu, "guide quartz dust".

Silikat (Alkalisilikatlg.)	
DNEL-Werte	
Oral	DNEL Long-term exposure- systemic effects 0,8 mg/kg bw/d (Consumer)
Dermal	DNEL Long-term exposure- systemic effects 0,8 mg/kg bw/d (Consumer)
Inhalative	DNEL Long-term exposure- systemic effects 1,59 mg/kg bw/d (Consumer)
	1,38 mg/m ³ bw/d (Consumer)
	5,61 mg/m ³ bw/d (Employee)
PNEC-Werte	
PNCE	7,5 mg/l (Water (Fresh water)) 7,5 mg/l (Water (Sporadic release)) 1 mg/l (Water (Sea water)) 348 mg/l (Sewage plant)

Personal protective equipment

General protective and hygienic measures:

Avoid contact with skin and eyes. Immediately remove any clothing contaminated by the product. Pay attention according the minimum standards of TRGS 500. Use skin protective cream. Wash hands during breaks and at the end of the work.

Respiratory protection: Not applicable

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Protection of hands: Protective gloves (DIN EN 374). Specific workplace conditions must be considered separately.

Material of gloves:

Material: Lapren / natural latex with low polychloroprene latex share. Recommended thickness: ≥ 0.6 mm

Penetration time of glove material

Permeation / Breakthrough time: Level 6, ≥ 8 hours (EN 374) is in full contact. Protective gloves should be replaced at first signs of wear. The exact break through time has to be requested from the protective glove manufacturer and must be observed.

Eye protection: Tightly sealed safety glasses (DIN EN 166)

Body protection: Protective work clothing. Protective clothing should be selected specifically for the working place.

09. Physical and chemical properties

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Appearance

Form: pasty
Color : white – light grey
Smell : odourless

Danger of explosion: Product is not explosive.

Critical values for explosion

Lower : n. a.

Upper : n. a.

Vapour pressure at 20°C: n. a.

Density at 20 °C: approx. 1,8 g/cm³

Solubility/ Miscibility with water: Soluble#

pH value: approx. 10

Change in condition: hardening by carbon dioxide in the air

Melting point/ melting range: < 0 °C#

Boiling point/ Boiling range: > 100 °C#

Flashpoint : non-flammable

Viscosity:

dynamic at 20 °C: 40 – 50 Pa·s (at production) Internal measurement method

Ignition temperature : n. a.

Values are based on sodium silicate.

Other information: No further relevant information available. As the product contains natural products, small color differences may occur, but they are not a reduction in quality.

10. Stability and reactivity

Reactivity: Reaction with acids: Development of heat

Chemical stability: No decomposition if used according to specifications.

Possibility of hazardous reactions: No reactions if used according to specifications.

Conditions to avoid: See chapter 7.

Incompatible materials: Strong acids

Hazardous decomposition products: Unknown

Further information: Mixture is fixed on the air.

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11. Toxicological information

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Information on toxicological effects

The toxicological classification was based on the results of the calculation method of the Preparations Directive (1999/45/EC).

Acute Toxicity:

Akute orale Toxizität:

LD50 > 2000 mg / kg body weight (Experiment) / GHS: No category

Akute inhalative Toxizität:

LC50 > 1 ≤ 5 mg / l (Analogy) / GHS: No classification

Akute dermale Toxizität:

LD50 > 5000 mg / kg body weight (Analogy) / GHS: No category

Primary irritant effect:

on the skin: Irritant (method OECD 404) / GHS: Category 2.

on the eye: Irritant (method Draize Test) / GHS: Category 2A

Sensitization: Skin sensitization: Not sensitizing. (Analogy) / GHS: No category

Germ cell mutagenicity:

Mutagenicity (in vitro): Not mutagenic (analogy) / GHS: No category

Mutagenicity (in vivo): Not mutagenic (OECD 475) / GHS: No category

Carcinogenicity: Not classifiable as a carcinogen for humans. (Expert evaluation) / GHS: No category

Reproductive toxicity: No reproductive toxicity. (Experiment) / GHS: No category

Aspiration: Not available

Specific target orga-single exposure: Not available

Specific target orga-repeated exposure:

The mixture is not classified as specific target toxicant, repeated exposure. (Experiment) / GHS: No category

Other information: Further toxicological data are not available.

12. Ecological information

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Toxicity:

Toxicity to fish:

LC50 (96h) > 100 mg / l (method ISO 7346/2/ semistatic) / GHS: No Category

Aquatic invertebrates (invertebrate):

EC50 (48h) > 100 mg / l (Daphnia according to OECD method 202) / GHS: No Category

Water plants / algae toxicity:

EC50 > 100 mg product / l (Method OECD 201 / DIN 38412, Part 9) / GHS: No category

Toxicity to bacteria:

EC0 > 100mg / l (method DIN 38412, Part 27; ROBRA corresponds test, OECD 209)

More data are not available.

Chronic toxicity

Fish toxicity: NOEC > 10 - ≤ 100 mg / l (analogy) / GHS: No category

Aquatic invertebrates (invertebrate): NOEC > 10 - ≤ 100 mg / l (expert evaluation) / GHS: No category

Information about elimination (persistence and degradability)

Other information: Not available

Behaviour in environmental systems

Mobility and bioaccumulation potential: Inorganic product. Decomposition not affected.

Mobility in soil: (Expert Review) / GHS: No category.

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Results of PBT and vPvB assessment: Does not meet the criteria for PBT or vPvB according to Annex XIII.

Additional ecological information

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

If acidic or alkaline products gets into wastewater take care that the discharged wastewater has a pH range of 6-10 because it can cause problems in drains and sewage plants by pH shifts. Parent the local discharge regulations.

13. Disposal considerations

Product

Waste treatment methods

Hazardous waste according to Waste Catalogue Ordinance (AVV). If recycling is not possible, a special treatment has to be supplied in consultation with the competent authority: neutralization.

Recommendation: Arrange about the exact waste code with the disposer.

European waste catalogue: Waste disposal key numbers from EWC have to be assigned depending in origin and processing.

Uncleaned packaging:

Clean recommendation. Empty, not dried container must be disposed of as a container with harmful residues.

15 01 10* (Packaging containing residues of dangerous substances or are contaminated by dangerous substances)

Cleaned packaging:

Non-contaminated and cleaned packaging can be recycled.

Recommended cleaning agent : Water

14. Transport information

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

15. Regulatory information

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Additional information on classification:

This product may contain between 1% and 10% quartz (respirable).

Products with $\geq 10\%$ quartz (respirable) are classified as STOT RE1.

Products from 1% to 10% quartz (respirable) are classified as STOT RE2.

Products with less than 1% quartz (respirable) get **no** classification.

Exceptions:

Regulation 1272/2008 (GHS) for the classification into account the physical state of the silica sand (Article 6.1). Silica sand in the wet state of aggregation is, according to Technical Rule 559 Section 3.3 No. 4a, where a low dust performance and therefore no classification required.

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

National regulations

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

(Germany) Lagerklasse : LGK 10-13 Non-combustible solids (gem. TRGS 510)

16. Other information

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Hazard statements listed in chapter 3:

Regulation (EC) 1272/2008:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H372 Causes damage to lungs through prolonged or repeated inhalation.

Literature and data sources

Regulations

REACH Regulation (EC) No.1907 / 2006, Regulation (EC) no. 1272/2008 (GHS)

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Training advice:

Workers must be informed about the silica content of the product and be trained in the proper handling of the product. Information and training materials are the "Federation of German Gravel and Sand Industry" on the homepage www.nepsi.eu available in the Guide to respirable crystalline silica.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the transport of dangerous goods by inland waterways.
ADNR/ ADND: see ADN with special contracts for the Rhine and Danube
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
IMDG: **I**nternational **M**aritime Code for **D**angerous **G**oods.
IATA: **I**nternational **A**ir **T**ransport **A**ssociation.
IATA-DGR: **I**nternational **A**ir **T**ransport **A**ssociation **D**angerous **G**oods **R**egulations
ICAO: **I**nternational **C**ivil **A**viation **O**rganization.
ICAO-TI: **T**echnical **I**nstructions by the ICAO.
EG: European Community
GHS: **G**lobally **H**armonized **S**ystem of Classification and Labelling of Chemicals/ (EG) Nr.1272/2008
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: **C**hemical **A**bstracts **S**ervice (division of the American Chemical Society)
LD50 (Tox.): **L**ethal **d**ose, **50** percent/ Statistically derived single dose of a substance that is expected in 50% of exposed (oral or dermal) cause animals to death.
LC50 (Tox.) : **L**ethal **d**ose, **50** percent / Statistically derived single dose of a substance that is expected (inhalation) result in 50% of animals exposed to death.
LC50 (Öko.Tox.): **L**ethal **c**oncentration, **50** percent/ Concentration at 96 hours 50% of the fish die.
EC50 (Öko.Tox.): **L**ethal **d**ose, **50** percent/ Concentration are unable to swim in after 48 hours 50% of the shellfish (daphnia).
RE1- **R**epeated **E**xposure, Category 1
STOT- **S**pecific **T**arget **O**rgan **T**oxicity
TRGS: Technical Rules for Hazardous Substances
vPvB: **V**ery **P**ersistent **V**ery **B**ioaccumulative
PBT: **P**ersistent **B**ioaccumulative **t**oxic
WGK: Water contaminating class (Germany)

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

* Changes of data compared to the previous

Department issuing MSDS

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