

SAFETY DATA SHEET (1907/2006/EC)
Trade name: SILKA CALCIUM SILICATE UNITS
Supplier: Xella Deutschland GmbH

Revision date: 12.03.14

Print date: 26.03.14

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1. Identification of the substance/preparation and the company

1.1. **Identification on the label / trade name:** SILKA Calcium Silicate Units

1.2. **Use of the substance / preparation:** Building material

1.3. **Supplier:** Xella Deutschland GmbH
 Düsseldorf Landstraße 395
 D-47259 Duisburg
 Germany
 Tel.: +49 (0)203 60880-9192
 Fax: +49 (0)203 60880-9195
 E-Mail: reach@xella.com

1.4. **Emergency telephone:** General poisoning emergency number:
 + 49 (0)30 19240

2. Hazards identification

2.1. **Classification according to Regulation 1272/2008/EC, Annex VII:**
 Article is not subject to classification/labelling requirements.

2.2. **Classification according to Directives 67/548/EEC or 1999/45/EC:**
 Article is not subject to classification/labelling requirements.

2.3. **Adverse human health effects / environmental effects:**
 In case appropriate application: none.
 During handling and storage of the product dust formation has to be avoided.

2.4. **Additional information:**
 Please consider information provided in this Safety Data Sheet.
 The product does not fulfil the criteria for PBT- and vPvB-substances given in Annex XIII of Regulation 1907/2006/EC.

3. Composition/information on ingredients

Calciumsilicatehydrate mainly tobermorite, i.e. $(\text{CaO})_5 \cdot (\text{SiO}_2)_6 \cdot (\text{H}_2\text{O})_5$ (CAS-No. 1319-31-9, EC-No.: ---)	5 – 20 % w/w
Embedded sand, being a filler containing quartz (SiO_2) (CAS-Nr. 014808-60-7; EC-Nr. 238-878-4)	80 – 95 % w/w 60 – 95 % w/w

4. First-aid measures

In case of eye contact: Immediately rinse carefully and thoroughly using eye wash or water.

5. Fire- fighting measures

SILKA CALCIUM SILICATE UNITS itself do not burn. Attune the fire-fighting measures to the surrounding fire. In case of fire, there will be no release of dangerous substances from the substance itself.

6. Accidental release measures

Fine materials emerging from processing of SILKA CALCIUM SILICATE UNITS can be taken up mechanically and discarded. In order to avoid dust formation, cuttings of SILKA CALCIUM SILICATE UNITS must be carried out by using a wet saw.

7. Handling and storage

7.1. **Precautions for safe handling:** Avoid dust formation.

7.2. **Storage:** Store in a dry place. Other special requirements do not exist.

8. Exposure control and personal protection equipment

8.1. Components that require monitoring according to occupational exposure limits:

General limit value for dust

Specification: TRGS 900 – Grenzwerte in der Luft am Arbeitsplatz (D)

Parameter: respirable fraction

Value: 10 mg/m³

Version: 21.06.2010

Specification: TRGS 900 – Grenzwerte in der Luft am Arbeitsplatz (D)

Parameter: alveolar fraction

Value: 3 mg/m³

Version: 21.06.2010

8.2. **Exposure controls:** Please consider wind direction. Behave according to the German TRGS 559 „Mineralischer Staub“. During intended use, dust formation fully complies with general limit values for dust.

9. Physical and chemical properties

Appearance	:	white, solid, rectangular
Odour	:	none
pH	:	10 – 11 (400 g / l H ₂ O)
Melting point	:	≥ 1500 °C
Flammability	:	non-inflammable
Spontaneous combustion	:	incombustible
Danger of explosion	:	none
Comburant properties	:	none
Vapor pressure	:	non-applicable
Dry density	:	acc. to German DIN V 106: 0.6 – 2.2 kg/dm ³
Solubility in water	:	insoluble
Distribution coefficient	:	non-applicable

10. Stability and reactivity

10.1. Materials to avoid:

Reacts with concentrated acids (heat development and/or release of carbon dioxide by neutralization reaction possible)

Reacts with concentrated oxidants (heat development and/or accelerated decomposition of the oxidant possible)

10.2. **Conditions to avoid:** none

10.3. **Hazardous decomposition products:** none

11. Toxicological information

SILKA CALCIUM SILICATE UNITS are non-toxic.

Repeated testing of SILKA CALCIUM SILICATE UNITS for free crystalline silica revealed that respirable dust from SILKA CALCIUM SILICATE UNITS contains less than 5 % quartz. Therefore the concentration of respirable quartz dust is < 0.15 mg/m³, as long as the general limit value for dust (3 mg/m³) is not exceeded.

12. Ecological information

SILKA CALCIUM SILICATE UNITS are non-soluble in water and can be easily separated from water by filtration or sedimentation.

SILKA CALCIUM SILICATE UNITS are fabricated from natural and mineral resources. Adverse effects for the environment and/or water management are not known. SILKA CALCIUM SILICATE UNITS are fully recyclable (after crushing/milling as a filler for the fabrication of calcium silicate units or concrete, for earthwork- and roadbuilding-purposes).

Water hazard class: Not hazardous to water.

13. Disposal considerations

Reutilization is possible. SILKA CALCIUM SILICATE UNITS fulfil the requirements for dump category 0 according to the German *Verordnung über Deponien und Langzeitlager (DepV)* of 27 April 2009. The German category 0 applies for inert waste that does not undergo biological, chemical, physical, or radiological transformation, i. e. gravel, sand, soil, rocks and unpolluted demolition waste (acc. to the German *DepV*, App. 2, Art. 2).

Waste code according to European Waste Catalogue (EWC): 17 01 01.

14. Transport information

Non-hazardous material according to transport regulations.

15. Regulatory information

15.1 EU regulations / National regulations (Germany) / Specific regulations

Labelling according to Regulation 1272/2008/EC:

No labelling required

Water hazard class (WGK):

1 (slightly hazardous to water)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.