

# SAFETY DATA SHEET

According to Regulations 1907/2006/EC, 453/2010/EU, 2015/830/EU

Trade name: SILKA Calcium Silicate Units  
 Revision date: 26.09.17  
 Version: 2017.01  
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Supplier: Xella Deutschland GmbH  
 Effective date: 26.09.17

## 1. Identification of the substance/preparation and the company

- 1.1. Identification on the label / trade name:** SILKA Calcium Silicate Units
- 1.2. Utilization:** 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 No. 1272/2008/EC:**  
 Article is not subject to classification/labelling requirements.
- 2.2. Adverse human health effects / environmental effects:**  
 In case appropriate application: none.  
 During handling and storage of the product dust formation has to be avoided.
- 2.3. 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 ( $\text{SiO}_2$ ) (CAS-No. 014808-60-7; EC-No. 238-878-4)	80 – 95 % w/w* 60 – 95 % w/w*

According to the criteria of Regulation 1907/2006/EC, SILKA Calcium Silicate Units are Articles.

\*related to the dry weight

## 4. First-aid measures

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

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## 5. Fire-fighting measures

SILKA Calcium Silicate Units *per se* 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. 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/m <sup>3</sup>
Version:	21.06.2010

Specification:	TRGS 900 – Grenzwerte in der Luft am Arbeitsplatz (D)
Parameter:	alveolar fraction
Value:	3 mg/m <sup>3</sup>
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.

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## 9. Physical and chemical properties

Appearance	:	white, solid, rectangular
Odour	:	none
pH	:	10 - 11 (400 g / l H <sub>2</sub> O)
Melting point	:	≥ 1500°C
Flammability	:	non-inflammable
Spontaneous combustion	:	incombustible
Danger of explosion	:	none
Comburant properties	:	none
Vapor pressure	:	non-applicable
Dry density	:	0.6 – 2.6 kg/dm <sup>3</sup> (acc. to German DIN 771-2 and DIN 20000-402)
Solubility in water	:	insoluble
Distribution coefficient	:	non-applicable

## 10. Stability and reactivity

### 10.1. Materials to avoid:

SILKA Calcium Silicate Units are chemically stable in a neutral and basic environment. The action of acids must be avoided (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/m<sup>3</sup>, as long as the general limit value for dust (3 mg/m<sup>3</sup>) is not exceeded.

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## 12. Ecological information

**12.1. Water hazard class:** Not hazardous to water. 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 non-soluble in water.

**12.2. Recyclability:** 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).

**12.3. Persistence and degradability:** Based on available data, classification criteria are not fulfilled.

**12.4. Bioaccumulation potential:** Based on available data, classification criteria are not fulfilled.

**12.5. PBT and vPvB assessment:** Based on available data, classification criteria are not fulfilled.

**12.6. Other harmful effects:** Not known.

## 13. Disposal considerations

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 No. 1272/2008/EC:

No labeling required

Water hazard class (WGK):

1 (slightly hazardous to water)

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

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### **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.