

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.11.2014

Version number 2

Revision: 19.11.2014

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

- **Date of compilation:** 16.09.2009
- **1.1 Product identifier**
- **Trade name:** Calsitherm Klimaplatte  
SILCA 250 SB; SILCA 250 KM; SILCA T300; SILCA T500  
SILCAL 900; SILCAL 1000; SILCAL 1100; SILCAL 900MD  
SILCA 200; SILCA 250  
Microcal 1100
- **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:** mineral thermal insulation panels
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**  
 Calsitherm Silikatbaustoffe GmbH  
 An der Eiche 15  
 D-33175 Bad Lippspringe  
 Tel.: 05254/99092-0  
 Fax: 05254/99092-17
- **SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH**  
 Auf dem Hüls 6  
 D-40822 Mettmann  
 Tel.: 02104/9727-0  
 Fax: 02104/9727-25
- **Calsitherm International GmbH**  
 An der Eiche 15  
 D-33175 Bad Lippspringe  
 Tel.: 05254/99092-0  
 Fax: 05254/99092-17
- **E-mail address of the competent person responsible for the Safety Data Sheet:** [sdb@csb-online.de](mailto:sdb@csb-online.de)
- **Informing department:** Tel.: 05254/99092-30, -20
- **1.4 Emergency telephone number:** As above or next toxicological information centre

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
 The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Insulating Material
- **Dangerous components:** Void

· **Other components:**

|                   |                 |           |
|-------------------|-----------------|-----------|
| CAS: 1344-95-2    | Calciumsilicate | 50 - 100% |
| EINECS: 215-710-8 |                 |           |

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CAS: 9004-34-6  
 EINECS: 232-674-9

cellulose

3-&lt;10%

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Remove contaminated clothing.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:**  
 Wash with soap and water.  
 If skin irritation continues, consult a doctor.
- **After eye contact:**  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing:**  
 Rinse out mouth and then drink plenty of water.  
 In case of persistent symptoms consult doctor.
- **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** symptomatic treatment

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture**  
 Can be released in case of fire:  
 Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
 Ensure adequate ventilation.  
 Avoid causing dust.  
 Do not breathe dust.  
 Avoid contact with eyes.
- **6.2 Environmental precautions:**  
 Damp down dust with water spray jet.  
 Do not allow to enter drainage system, surface or ground water.  
 Keep dirty washing water for appropriate disposal.
- **6.3 Methods and material for containment and cleaning up:**  
 Ensure adequate ventilation.  
 Collect mechanically.  
 Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
 See Section 8 for information on personal protection equipment.

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### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of dust.
- Any deposit of dust which cannot be avoided must be removed regularly.
- Provide suction extractors if dust is formed.
- Do not breathe dust.
- Make sure that all applicable workplace limits are observed.
- Avoid contact with eyes.
- Avoid prolonged or repeated skin contact.
- **Information about protection against explosions and fires:** The product is not flammable.

#### · 7.2 Conditions for safe storage, including any incompatibilities

##### · Storage

##### · Requirements to be met by storerooms and containers:

Observe all local and national regulations for storage of water polluting products.

##### · Information about storage in one common storage facility: Not required.

##### · Further information about storage conditions: Store under dry conditions.

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

### SECTION 8: Exposure controls/personal protection

#### · Additional information about design of technical systems: No further data; see item 7.

#### · 8.1 Control parameters

##### · Components with critical values that require monitoring at the workplace:

Observe all workplace limits for dust.

#### 1344-95-2 Calciumsilicate

|                     |  |
|---------------------|--|
| WEL (Great Britain) | Long-term value: 10* 4** mg/m <sup>3</sup><br>*inhalable dust **respirable |
|---------------------|--|

#### 9004-34-6 cellulose

|                     |   |
|---------------------|---|
| WEL (Great Britain) | Short-term value: 20* mg/m <sup>3</sup><br>Long-term value: 10* 4** mg/m <sup>3</sup><br>*inhalable dust **respirable |
|---------------------|---|

#### · Additional information: The lists that were valid during the compilation were used as basis.

#### · 8.2 Exposure controls

##### · Personal protective equipment

##### · General protective and hygienic measures

- Keep away from foodstuffs, beverages and food.
- Do not eat, drink or smoke while working.
- Do not breathe dust.
- Do not wear contact lenses during work.
- Avoid contact with the eyes.
- Avoid close or long term contact with the skin.
- Wash hands during breaks and at the end of the work.
- Vacuum clean contaminated clothing. Do not blow or brush off contamination.

##### · Breathing equipment: Use breathing protection in case of dust formation.

##### · Recommended filter device for short term use: Filter P2

##### · Protection of hands:

Protective gloves

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

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

· **Material of gloves**

cotton / natural rubber

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**

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

· **Eye protection:** Safety glasses

· **Body protection:**

Protective work clothing

Body protection must be chosen depending on activity and possible exposure.

· **Limitation and supervision of exposure into the environment**

Do not allow to enter drainage system, surface or ground water.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

|                           |                 |
|---------------------------|-----------------|
| <b>Form:</b>              | solid<br>planes |
| <b>Colour:</b>            | light grey      |
| · <b>Smell:</b>           | odourless       |
| · <b>Odour threshold:</b> | not applicable  |

· **pH-value (100 g/l) at 20 °C:** 9 - 11 (susp.)

· **Change in condition**

|                                     |                |
|-------------------------------------|----------------|
| <b>Melting point/Melting range:</b> | 1500 °C        |
| <b>Boiling point/Boiling range:</b> | not applicable |

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** not applicable

· **Ignition temperature:** not applicable

· **Decomposition temperature:** not determined

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Critical values for explosion:**

|               |                |
|---------------|----------------|
| <b>Lower:</b> | not applicable |
| <b>Upper:</b> | not applicable |

· **Oxidising properties** not applicable

· **Vapor pressure:** none

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|   |  |
|---|--|
| · <b>Density at 20 °C:</b>                        | 150 - 550 kg/m <sup>3</sup>                |
| · <b>Bulk density:</b>                            | not applicable                             |
| · <b>Relative density</b>                         | not determined                             |
| · <b>Vapour density (AIR = 1):</b>                | not applicable                             |
| · <b>Evaporation rate</b>                         | not applicable                             |
| · <b>Solubility in / Miscibility with Water:</b>  | insoluble                                  |
| · <b>Partition coefficient (n-octanol/water):</b> | not determined                             |
| · <b>Viscosity:</b>                               |  |
| dynamic:  | not applicable                             |
| kinematic:  | not applicable                             |
| · <b>9.2 Other information</b>                    | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used 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:**
  - Acids
  - Alkaline materials
- **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** no data available
- **Primary irritant effect:**
- **on the skin:** Fine dust may cause mechanical irritation.
- **on the eye:** Fine dust may cause mechanical irritation.
- **Sensitisation:** No sensitizing effect known.
- **Subacute to chronic toxicity:**
  - Repeated or prolonged exposure to dusts may result in deposition of dust particles in the lungs.
- **Additional toxicological information:**
  - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - According to present knowledge no CMR-effects known.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability**
  - Anorganic product, is not eliminable from water by means of biological cleaning processes.

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- **12.3 Bioaccumulative potential** Not bioaccumulative
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
 There are no quantitative data on the ecological effects of this product available to us.  
 Water hazard class 1 (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** Disposal must be made according to official regulations.
- **European waste catalogue:**  
 Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |  |
|---|--|
| · <b>14.1 UN-Number</b>   | Void   |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>14.2 UN proper shipping name</b>   | Void   |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>14.3 Transport hazard class(es)</b>  | Void   |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>Class</b>  | Void   |
| · <b>14.4 Packing group</b>   | Void   |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>14.6 Special precautions for user</b>  | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>  | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>   | -  |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Decree to be applied in case of technical fault:** Directive 96/82/EC does not apply.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water

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

### **SECTION 16: Other information**

*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.*

· **Department issuing MSDS:**

C.S.B. GmbH                      Phone: +49 - 2151 - 652086-0  
 Düsseldorf Str. 113              Fax: +49 - 2151 - 652086-9  
 47809 Krefeld / Germany

· **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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent

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

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