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

1.1 Product identifier

Trade name
CALCAST® CC 100 / CC 150 / CC 200 / CC 250 / CC 100L
CALCAST® CC 350 / CC 355 / CC 450 / CC 500
SILCATEC 1000 / 1000HD / 1000E / 1000E HD / 1000HD-T
SILCAPAN 85 / 835 / 845 / 850 / 750 / 750FB
SILCASTEEL

Registration number (REACH) not relevant (article)

CAS number not relevant (article)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses
Mineral thermal insulation panels

1.3 Details of the supplier of the safety data sheet

CALSITHERM Silikatbaustoffe GmbH
An der Eiche 15
D-33175 Bad Lippspringe
Germany
Telephone: +49 (0)5254 99092-0
Telefax: +49 (0)5254 99092-17
e-mail: info@calsitherm.de
Website: www.calsitherm.de

CALSITHERM International GmbH
An der Eiche 15
33175 Bad Lippspringe

SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH
Auf dem Hüls 6
40822 Mettmann
telephone: +49(0) 2104 9727-0
telefax: +49(0) 2104 9727-25
e-Mail: reach@silca-online.de
website: www.silca-online.de

SILCA Italia srl
Via Mattei 5/11
30037 Scorze (VE)
Italia
telephone: +39 (041) 584 122 0
telefax: +39 (041) 447 130
e-mail: info@silca-italia.it
website: www.silca-italia.it

e-mail (competent person) sdb@csb-online.de

Please do not use this e-mail adress to ask for the latest safety data sheet. For this purpose contact CALSITHERM Silikatbaustoffe GmbH.

National contact +49 (0)5254 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 (CLP)

This article does not meet the criteria for classification.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

not required

2.3 Other hazards

Inhalation of dust may cause respiratory irritation.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (article)

3.2 Mixtures

Not relevant (article).

Constituents

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>Wt%</th>
<th>Classification acc. to GHS</th>
<th>Pictograms</th>
<th>Specific Conc. Limits</th>
<th>M-Factors</th>
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</thead>
<tbody>
<tr>
<td>calciumsilicate</td>
<td>CAS No 1344-95-2</td>
<td>≥ 90</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>EC No 215-710-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cellulose</td>
<td>CAS No 9004-34-6</td>
<td>≤ 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC No 232-674-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

(Dust) Provide fresh air.
Following skin contact
Wash with plenty of soap and water.

Following eye contact
(Dust) Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion
No exposure expected.

Notes for the doctor
none

4.2 Most important symptoms and effects, both acute and delayed
These information are not available.

4.3 Indication of any immediate medical attention and special treatment needed
none

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
co-ordinate firefighting measures to the fire surroundings

5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products: Section 10.

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters
use suitable breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Ventilate affected area. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders
Wear breathing apparatus if exposed to vapours/dust/spray/gases.
6.2 Environmental precautions
Keep away from drains, surface and ground water.
Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill
take up mechanically

Advices on how to clean up a spill
Take up mechanically.

Other information relating to spills and releases
Place in appropriate containers for disposal.
Ventilate affected area.

6.4 Reference to other sections
Personal protective equipment: see section 8.
Incompatible materials: see section 10.
Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation.

Specific notes/details
Dust deposits may accumulate on all deposition surfaces in a technical room.

Measures to protect the environment
Avoid release to the environment.

Advice on general occupational hygiene
Do not eat, drink and smoke in work areas.
Wash hands after use.
Preventive skin protection (barrier creams/ointments) is recommended.
Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Flammability hazards
None.

Incompatible substances or mixtures
Incompatible materials: see section 10.

Protect against external exposure, such as
vibration, strong shocks
Consideration of other advice
Keep away from food, drink and animal feedingstuffs.

Ventilation requirements
Provision of sufficient ventilation.

Packaging compatibilities
Keep only in original container.

7.3 Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of agent</th>
<th>CAS No</th>
<th>Identifier</th>
<th>TWA [ppm]</th>
<th>TWA [mg/m³]</th>
<th>STEL [ppm]</th>
<th>STEL [mg/m³]</th>
<th>Notation</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB</td>
<td>dust</td>
<td></td>
<td>WEL</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td>i</td>
<td>EH40/2005</td>
</tr>
<tr>
<td>GB</td>
<td>dust</td>
<td></td>
<td>WEL</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>r</td>
<td>EH40/2005</td>
</tr>
<tr>
<td>GB</td>
<td>calcium silicate</td>
<td>1344-95-2</td>
<td>WEL</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td>i</td>
<td>EH40/2005</td>
</tr>
<tr>
<td>GB</td>
<td>calcium silicate</td>
<td>1344-95-2</td>
<td>WEL</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>r</td>
<td>EH40/2005</td>
</tr>
<tr>
<td>GB</td>
<td>cellulose</td>
<td>9004-34-6</td>
<td>WEL</td>
<td>10</td>
<td>20</td>
<td></td>
<td></td>
<td>i</td>
<td>EH40/2005</td>
</tr>
<tr>
<td>GB</td>
<td>cellulose</td>
<td>9004-34-6</td>
<td>WEL</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>r</td>
<td>EH40/2005</td>
</tr>
</tbody>
</table>

Notation
i inhalable fraction
r respirable fraction
STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Protection goal, route of exposure</th>
<th>Used in</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>calciumsilicate</td>
<td>1344-95-2</td>
<td>DNEL</td>
<td>4 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - local effects</td>
</tr>
</tbody>
</table>
Relevant PNECs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Environmental compartment</th>
</tr>
</thead>
<tbody>
<tr>
<td>calciumsilicate</td>
<td>1344-95-2</td>
<td>PNEC</td>
<td>4 mg/l</td>
<td>freshwater</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Appropriate engineering controls
General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection
Dust-Development: Use safety goggle with side protection.

Hand protection
Wear suitable gloves (Substance. Leather)

Respiratory protection
In case of inadequate ventilation wear respiratory protection. Particulate filter device (EN 143).

Environmental exposure controls
Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: solid
Form: planes
Colour: white - yellowish - light grey
Odour: odourless
Odour threshold: these information are not available

Other safety parameters
pH (value): 9 – 11
Melting point/freezing point: >1,500 °C
Initial boiling point and boiling range: these information are not available
Flash point: not applicable
Evaporation rate: these information are not available
Flammability (solid, gas): non-combustible
Explosion limits of dust clouds: not determined
Vapour pressure: these information are not available
Density: 750 – 1,400 kg/m³ at 20 °C
Vapour density: these information are not available
Relative density: these information are not available

**Solubility(ies)**
Water solubility: insoluble

**Partition coefficient**
n-octanol/water (log KOW): these information are not available
Auto-ignition temperature: not relevant
(Solid matter)
Relative self-ignition temperature for solids: these information are not available
Decomposition temperature: these information are not available

**Viscosity**
Kinematic viscosity: not relevant
(solid matter)
Dynamic viscosity: not relevant
(solid matter)
Explosive properties: not explosive
Oxidising properties: shall not be classified as oxidising

9.2 **Other information**
None

---

**SECTION 10: Stability and reactivity**

10.1 **Reactivity**
This material is not reactive under normal ambient conditions.

10.2 **Chemical stability**
The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 **Possibility of hazardous reactions**
No known hazardous reactions.

10.4 **Conditions to avoid**
There are no specific conditions known which have to be avoided.

10.5 **Incompatible materials**
There is no additional information.
10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification procedure

If not otherwise specified the classification is based on:
Ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>calciumsilicate</td>
<td>1344-95-2</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5,000 mg/kg</td>
<td>rat</td>
</tr>
<tr>
<td>calciumsilicate</td>
<td>1344-95-2</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;5,000 mg/kg</td>
<td>rabbit</td>
</tr>
<tr>
<td>calciumsilicate</td>
<td>1344-95-2</td>
<td>inhalation: dust/mist</td>
<td>LC50</td>
<td>≥58.8 mg/l/4h</td>
<td>rat</td>
</tr>
<tr>
<td>cellulose</td>
<td>9004-34-6</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5,000 mg/kg</td>
<td>rat</td>
</tr>
<tr>
<td>cellulose</td>
<td>9004-34-6</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2,000 mg/kg</td>
<td>rabbit</td>
</tr>
<tr>
<td>cellulose</td>
<td>9004-34-6</td>
<td>inhalation: dust/mist</td>
<td>LC50</td>
<td>&gt;5.8 mg/l/4h</td>
<td>rat</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Skin sensitisation

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Respiratory sensitisation

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.
Carcinogenicity
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Reproductive toxicity
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - single exposure
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

Other information
Inhalation of dust may cause respiratory irritation.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)
Test data are not available for the complete mixture.

Aquatic toxicity (acute) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>calciumsilicate</td>
<td>1344-95-2</td>
<td>LL50</td>
<td>&gt;1,000 mg/l</td>
<td>rainbow trout (Oncorhynchus mykiss)</td>
<td>96 h</td>
</tr>
<tr>
<td>calciumsilicate</td>
<td>1344-95-2</td>
<td>EL50</td>
<td>410 mg/l</td>
<td>algae (Desmodesmus subspicatus)</td>
<td>72 h</td>
</tr>
<tr>
<td>calciumsilicate</td>
<td>1344-95-2</td>
<td>EL50</td>
<td>&gt;10,000 mg/l</td>
<td>daphnia magna</td>
<td>48 h</td>
</tr>
</tbody>
</table>

Aquatic toxicity (chronic)
Test data are not available for the complete mixture.

12.2 Persistence and degradability

Biodegradation
Data are not available.

Persistence
Data are not available.
12.3 **Bioaccumulative potential**
Test data are not available for the complete mixture.

12.4 **Mobility in soil**
Data are not available.

12.5 **Results of PBT and vPvB assessment**
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 **Other adverse effects**
Data are not available.

**Remarks**
Wassergefährdungsklasse, WGK (water hazard class): 1

### SECTION 13: Disposal considerations

13.1 **Waste treatment methods**
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Sewage disposal-relevant information**
Do not empty into drains.

**Waste treatment of containers/packagings**
Handle contaminated packages in the same way as the substance itself.

**Remarks**
Please consider the relevant national or regional provisions.

### SECTION 14: Transport information

14.1 **UN number**
not subject to transport regulations

14.2 **UN proper shipping name**
-

14.3 **Transport hazard class(es)**
none

**Class**
-

14.4 **Packing group**
not assigned to a packing group

14.5 **Environmental hazards**
non-environmentally hazardous acc. to the dangerous goods regulations

14.6 **Special precautions for user**
There is no additional information.

14.7 **Transport in bulk according to Annex II of MARPOL and the IBC Code**
The cargo is not intended to be carried in bulk.
14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).
Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)
Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)
Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII
none of the ingredients are listed

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list
none of the ingredients are listed

Seveso Directive
Not assigned.

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II
none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)
none of the ingredients are listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)
none of the ingredients are listed

Regulation 98/2013/EU on the marketing and use of explosives precursors
none of the ingredients are listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier. Chemical safety assessments for substances in this mixture were not carried out.
### Indication of changes (revised safety data sheet)

<table>
<thead>
<tr>
<th>Section</th>
<th>Former entry (text/value)</th>
<th>Actual entry (text/value)</th>
<th>Safety-relevant</th>
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</thead>
<tbody>
<tr>
<td>1.3</td>
<td>Details of the supplier of the safety data sheet: Calsitherm Silikatbaustoffe GmbH An der Eiche 15 D-33175 Bad Lippspringe Germany Telephone: +49 (0)5254 99092-0 Telefax: +49 (0)5254 99092-17 e-mail: <a href="mailto:info@calsitherm.de">info@calsitherm.de</a> Website: <a href="http://www.calsitherm.de">www.calsitherm.de</a></td>
<td>Details of the supplier of the safety data sheet: CALSITHERM Silikatbaustoffe GmbH An der Eiche 15 D-33175 Bad Lippspringe Germany Telephone: +49 (0)5254 99092-0 Telefax: +49 (0)5254 99092-17 e-mail: <a href="mailto:info@calsitherm.de">info@calsitherm.de</a> Website: <a href="http://www.calsitherm.de">www.calsitherm.de</a></td>
<td>yes</td>
</tr>
</tbody>
</table>

### Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)</td>
</tr>
<tr>
<td>CLP</td>
<td>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</td>
</tr>
<tr>
<td>DGR</td>
<td>Dangerous Goods Regulations (see IATA/DGR)</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>Abbr.</td>
<td>Descriptions of used abbreviations</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>EC No</td>
<td>The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IATA/DGR</td>
<td>Dangerous Goods Regulations (DGR) for the air transport (IATA)</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>index No</td>
<td>The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of “Marine Pollutant”)</td>
</tr>
<tr>
<td>NLP</td>
<td>No-Longer Polymer</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>ppm</td>
<td>Parts per million</td>
</tr>
<tr>
<td>REACH</td>
<td>Registration, Evaluation, Authorisation and Restriction of Chemicals</td>
</tr>
<tr>
<td>RID</td>
<td>Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-term exposure limit</td>
</tr>
<tr>
<td>SVHC</td>
<td>Substance of Very High Concern</td>
</tr>
<tr>
<td>TWA</td>
<td>Time-weighted average</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and very Bioaccumulative</td>
</tr>
<tr>
<td>WEL</td>
<td>Workplace exposure limit</td>
</tr>
</tbody>
</table>

**Key literature references and sources for data**

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).  
International Maritime Dangerous Goods Code (IMDG).  
Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties.  
Health hazards.  
Environmental hazards.
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Responsible for the safety data sheet**

C.S.B. GmbH  
Düsseldorfer Str. 113  
47809 Krefeld, Germany  
Telephone: +49 (0) 2151 - 652086 - 0  
Telefax: +49 (0) 2151 - 652086 - 9  
e-Mail: info@csb-online.de  
Website: www.csb-online.de

**Disclaimer**

This information is based upon the present state of our knowledge.  
This SDS has been compiled and is solely intended for this product.