

**CALCAST - SILCATEC - SILCAPAN - SILCASTEEL - SILCA**Version number: 6.1  
Replaces version of: 2017-06-09 (5)Revision: 2020-06-29  
First version: 2014-09-03**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

|                                    |  |
|------------------------------------|--|
| <b>Trade name</b>                  | CALCAST® CC 100 / CC 150 / CC 200 / CC 250 / CC 100L<br>CALCAST® CC 350 / CC 355 / CC 450 / CC 500<br>SILCATEC 1000 / 1000HD / 1000E / 1000E HD / 1000HD-T<br>SILCAPAN 85 / 835 / 845 / 850 / 750 / 750FB<br>SILCASTEEL, SILCA SBI |
| <b>Registration number (REACH)</b> | Not relevant (article)   |
| <b>CAS number</b>                  | not relevant (article)   |

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

|                                 |                                   |
|---------------------------------|-----------------------------------|
| <b>Relevant identified uses</b> | Mineral thermal insulation panels |
|---------------------------------|-----------------------------------|

**1.3 Details of the supplier of the safety data sheet**

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

**1.4 Emergency telephone number**

As above or nearest 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).

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

**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

### Advice on how to contain a spill

Take up mechanically.

### Advice 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**

| <b>Occupational exposure limit values (Workplace Exposure Limits)</b> |                  |           |            |           |                          |            |                           |          |           |
|---|------------------|-----------|------------|-----------|--------------------------|------------|---------------------------|----------|-----------|
| Country   | Name of agent    | CAS No    | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Notation | Source    |
| GB  | dust             |           | WEL        |           | 10                       |            |                           | i        | EH40/2005 |
| GB  | dust             |           | WEL        |           | 4                        |            |                           | r        | EH40/2005 |
| GB  | calcium silicate | 1344-95-2 | WEL        |           | 10                       |            |                           | i        | EH40/2005 |
| GB  | calcium silicate | 1344-95-2 | WEL        |           | 4                        |            |                           | r        | EH40/2005 |
| GB  | cellulose        | 9004-34-6 | WEL        |           | 10                       |            | 20                        | i        | EH40/2005 |
| GB  | cellulose        | 9004-34-6 | WEL        |           | 4                        |            |                           | r        | EH40/2005 |

**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)

| <b>Relevant DNELs of components of the mixture</b> |           |          |                     |                                    |                   |                         |
|--|-----------|----------|---------------------|------------------------------------|-------------------|-------------------------|
| Name of substance                                  | CAS No    | Endpoint | Threshold level     | Protection goal, route of exposure | Used in           | Exposure time           |
| calciumsilicate                                    | 1344-95-2 | DNEL     | 4 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects |

| Relevant PNECs of components of the mixture |           |          |                 |                           |
|---|-----------|----------|-----------------|---------------------------|
| Name of substance                           | CAS No    | Endpoint | Threshold level | Environmental compartment |
| calciumsilicate                             | 1344-95-2 | PNEC     | 4 mg/l          | freshwater                |

## 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/m <sup>3</sup> at 20 °C |
| Vapour density                                | These information are not available    |
| Relative density                              | These information are not available    |
| <b>Solubility(ies)</b>                        |  |
| Water solubility                              | Insoluble                              |
| <b>Partition coefficient</b>                  |  |
| n-octanol/water (log KOW)                     | These information are not available    |
| Auto-ignition temperature                     | Not relevant<br>(Solid matter)         |
| Relative self-ignition temperature for solids | These information are not available    |
| Decomposition temperature                     | These information are not available    |
| <b>Viscosity</b>                              |  |
| Kinematic viscosity                           | Not relevant<br>(Solid matter)         |
| Dynamic viscosity                             | Not relevant<br>(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**

Test data are not available for the complete mixture.

| Name of substance | CAS No    | Exposure route           | Endpoint | Value         | Species |
|-------------------|-----------|--------------------------|----------|---------------|---------|
| calciumsilicate   | 1344-95-2 | oral                     | LD50     | >5,000 mg/kg  | rat     |
| calciumsilicate   | 1344-95-2 | dermal                   | LD50     | >5,000 mg/kg  | rabbit  |
| calciumsilicate   | 1344-95-2 | inhalation:<br>dust/mist | LC50     | ≥58.8 mg/l/4h | rat     |
| cellulose         | 9004-34-6 | oral                     | LD50     | >5,000 mg/kg  | rat     |
| cellulose         | 9004-34-6 | dermal                   | LD50     | >2,000 mg/kg  | rabbit  |
| cellulose         | 9004-34-6 | inhalation:<br>dust/mist | LC50     | >5.8 mg/l/4h  | rat     |

**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**

| Name of substance | CAS No    | Endpoint | Value        | Species                             | Exposure time |
|-------------------|-----------|----------|--------------|-------------------------------------|---------------|
| calciumsilicate   | 1344-95-2 | LL50     | >1,000 mg/l  | rainbow trout (Oncorhynchus mykiss) | 96 h          |
| calciumsilicate   | 1344-95-2 | EL50     | >1,000 mg/l  | algae (Desmodium subspicatus)       | 72 h          |
| calciumsilicate   | 1344-95-2 | EL50     | >10,000 mg/l | daphnia magna                       | 48 h          |

**Aquatic toxicity (chronic)**

Test data are not available for the complete mixture.

**12.2 Persistence and degradability****Biodegradation**

No data available.

**Persistence**

No data available.

**12.3 Bioaccumulative potential**

Test data are not available for the complete mixture.

**12.4 Mobility in soil**

No data 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**

Completely emptied packages can be recycled.  
Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions.

**SECTION 14: Transport information**

|  |                                      |
|--|--------------------------------------|
| <b>14.1 UN number</b>  | Not subject to transport regulations |
| <b>14.2 UN proper shipping name</b>  | -                                    |
| <b>14.3 Transport hazard class(es)</b>   | -                                    |
| <b>14.4 Packing group</b>  | -                                    |
| <b>14.5 Environmental hazards</b>  | -                                    |
| <b>14.6 Special precautions for user</b>                                       | -                                    |
| <b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b> | -                                    |

**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.

**Water Framework Directive (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.

**Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**

None of the ingredients are listed.

**Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**

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.

**SECTION 16: Other information****Indication of changes (revised safety data sheet)**

| Section | Former entry (text/value)   | Actual entry (text/value)   |
|---------|---|---|
| 1.1     | Trade name:<br>CALCAST® CC 100 / CC 150 / CC 200 / CC 250 / CC 100L<br>CALCAST® CC 350 / CC 355 / CC 450 / CC 500<br>SILCATEC 1000 / 1000HD / 1000E / 1000E HD / 1000HD-T | Trade name:<br>CALCAST® CC 100 / CC 150 / CC 200 / CC 250 / CC 100L<br>CALCAST® CC 350 / CC 355 / CC 450 / CC 500<br>SILCATEC 1000 / 1000HD / 1000E / 1000E HD / 1000HD-T |

| Section | Former entry (text/value)                                 | Actual entry (text/value)  |
|---------|---|--|
|         | SILCAPAN 85 / 835 / 845 / 850 / 750 / 750FB<br>SILCASTEEL | SILCAPAN 85 / 835 / 845 / 850 / 750 / 750FB<br>SILCASTEEL, SILCA SBI |

### Abbreviations and acronyms

| Abbr.     | Descriptions of used abbreviations  |
|-----------|---|
| ADN       | 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) |
| ADR       | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CLP       | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL      | Derived No-Effect Level   |
| EC No     | 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)                                     |
| EH40/2005 | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )                                 |
| EINECS    | European Inventory of Existing Commercial Chemical Substances   |
| EL50      | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms  |
| ELINCS    | European List of Notified Chemical Substances   |
| GHS       | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA      | International Air Transport Association   |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| IMDG      | International Maritime Dangerous Goods Code   |
| index No  | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| LC50      | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval   |
| LD50      | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| LL50      | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality  |
| MARPOL    | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| NLP       | No-Longer Polymer   |
| PBT       | Persistent, Bioaccumulative and Toxic   |

| <b>Abbr.</b> | <b>Descriptions of used abbreviations</b>   |
|--------------|---|
| PNEC         | Predicted No-Effect Concentration   |
| ppm          | Parts per million   |
| REACH        | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID          | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL         | Short-term exposure limit   |
| SVHC         | Substance of Very High Concern  |
| TWA          | Time-weighted average   |
| vPvB         | Very Persistent and very Bioaccumulative  |
| WEL          | Workplace exposure limit  |

### **Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

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**

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### **Disclaimer**

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