

Version number: 4.1  
Replaces version of: 2017-06-09 (4.0)Revision: 2017-06-19  
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; -150; -200; -250 CALCAST® CC-350: -355; -450; -500 CALSITEC® CT 35; -45; -35 HD; -35 HDT; -45HI SILCATEC 1000 E; SILCATEC 1000 HD SILCAPAN 85, -845, -850 SILCASTEEL
<b>Registration number (REACH)</b>	not relevant (mixture)
<b>CAS number</b>	not relevant (mixture)

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

<b>Relevant identified uses</b>	Mineral thermal insulation panels
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**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 Germany	telephone: +49 (0)5254 99092-0 telefax: +49 (0)5254 99092-17
SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH Auf dem Hüls 6 40822 Mettmann Germany	telephone: +49(0) 2104 9727-0 telefax: +49(0) 2104 9727-25 e-Mail: reach@silca-online.de website: www.silca-online.de
<b>National contact</b>	Entwicklung / Produktion telephone: ++49 (0)5254 99092-30 / -20
<b>e-mail (competent person)</b>	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.	

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

**2.2 Label elements**

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

not required

**2.3 Other hazards**

There is no additional information.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

not relevant (mixture)

**3.2 Mixtures**

**Description of the mixture**

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

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## 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

Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

Wash with plenty of soap and water.

#### Following eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### Following ingestion

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

#### 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

water, foam, alcohol resistant foam, fire extinguishing powder

#### Unsuitable extinguishing media

water jet

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**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.

Co-ordinate firefighting measures to the fire surroundings.

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.

Collect spillage.

**Other information relating to spills and releases**

Place in appropriate containers for disposal.

Ventilate affected area.

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#### **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**

heat

##### **Consideration of other advice**

Keep away from food, drink and animal feedingstuffs.

##### **Ventilation requirements**

Provision of sufficient ventilation.

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**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	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
GB	dust		i	WEL		10			EH40/2005
GB	dust		r	WEL		4			EH40/2005
GB	calcium silicate	1344-95-2	i	WEL		10			EH40/2005
GB	calcium silicate	1344-95-2	r	WEL		4			EH40/2005
GB	cellulose	9004-34-6	i	WEL	10	20			EH40/2005
GB	cellulose	9004-34-6	r	WEL		4			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

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

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**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**

Material	Material thickness	Breakthrough times of the glove material
these information are not available	these information are not available	these information are not available

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination.

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

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Odour	odourless
Odour threshold	these information are not available
<b>Other safety parameters</b>	
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	not miscible in any proportion
<b>Partition coefficient</b>	
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
<b>Viscosity</b>	
Kinematic viscosity	not relevant (solid matter)
Dynamic viscosity	not relevant (solid matter)
Explosive properties	not explosive



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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.

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**Acute toxicity**

<b>Acute toxicity of components of the mixture</b>					
<b>Name of substance</b>	<b>CAS No</b>	<b>Exposure route</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>
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: 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.

**Respiratory or skin sensitisation**

**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.

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**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.

**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 (Onco-rhynchus mykiss)	96 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**

The relevant substances of the mixture are readily biodegradable.

**Persistence**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.

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**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.

**Endocrine disrupting potential**

None of the ingredients are listed.

**Remarks**

Water hazard class - WHC (Wassergefährdungsklasse): 1 (Slightly hazardous to water)

**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**

<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>Class</b>	-
<b>14.4 Packing group</b>	-
<b>14.5 Environmental hazards</b>	non-environmentally hazardous acc. to the dangerous goods regulations

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**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)**

none of the ingredients are listed

**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

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**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

**SECTION 16: Other information**

**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)
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
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)
ICAO	International Civil Aviation Organization
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")

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Abbr.	Descriptions of used abbreviations
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
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
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**

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 This SDS has been compiled and is solely intended for this product.