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

1.1 Product identifier

**Trade name**: SILCAPROTECT

**Registration number (REACH)**: not relevant (article)

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

**Relevant identified uses**: Fire protection panel

1.3 Details of the supplier of the safety data sheet

Calsitherm Silikatbaustoffe GmbH
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Germany

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Telefax: +49 (0)5254 99092-17
e-mail: info@calsitherm.de
Website: www.calsitherm.de

Calsitherm International GmbH
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telephone: +49(0) 2104 9727-0
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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 address 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

There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (article)

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>Wt%</th>
<th>Classification acc. to GHS</th>
<th>Pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>calcium silicate hydrate</td>
<td>CAS No 1319-31-9, EC No 946-103-2</td>
<td>70 – 80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>aluminium hydroxide</td>
<td>CAS No 21645-51-2, EC No 244-492-7</td>
<td>5 – 20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cellulose</td>
<td>CAS No 9004-34-6, EC No 232-674-9</td>
<td>0 – 10</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
(Dust) 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.
If eye irritation persists: Get medical advice/attention.

Following ingestion
(Dust) 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
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
self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Ventilate affected area.
Do not breathe dust.

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
Do not breathe dust.

Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation.
Control of dust.
Removal of dust deposits.

Specific notes/details
None.

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.

**Specific designs for storage rooms or vessels**
Store in a dry place.

**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>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>aluminium hydroxide</td>
<td>21645-51-2</td>
<td>DNEL</td>
<td>10.76 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>aluminium hydroxide</td>
<td>21645-51-2</td>
<td>DNEL</td>
<td>4.74 mg/kg bw/day</td>
<td>human, oral</td>
<td>consumer (private households)</td>
<td>chronic - systemic effects</td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls

**Appropriate engineering controls**
General ventilation.

**Individual protection measures (personal protective equipment)**

**Eye/face protection**
Protect against external exposure, such as Dust: Use safety goggle with side protection.

**Hand protection**
Wear suitable 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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>solid</td>
</tr>
<tr>
<td>Form</td>
<td>planes</td>
</tr>
<tr>
<td>Colour</td>
<td>grey</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**Other safety parameters**

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH (value)</td>
<td>these information are not available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>these information are not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>these information are not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>these information are not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>non-combustible</td>
</tr>
<tr>
<td>Explosion limits of dust clouds</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>these information are not available</td>
</tr>
<tr>
<td>Density</td>
<td>180 – 250 kg/m³ at 20 °C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>these information are not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>these information are not available</td>
</tr>
</tbody>
</table>

**Solubility(ies)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
</tr>
</tbody>
</table>

**Partition coefficient**

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-octanol/water (log KOW)</td>
<td>these information are not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>not relevant</td>
</tr>
<tr>
<td>(Solid matter)</td>
<td></td>
</tr>
<tr>
<td>Relative self-ignition temperature for solids</td>
<td>these information are not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>these information are not available</td>
</tr>
</tbody>
</table>
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 according to GHS (1272/2008/EC, CLP)

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>aluminium hydroxide</td>
<td>21645-51-2</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;2,000 mg/kg</td>
<td>rat</td>
</tr>
</tbody>
</table>
Skin corrosion/irritation
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Serious eye damage/eye irritation
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

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
Repeated or prolonged exposure to dusts may result in deposition of dust particles in the lungs.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)
No data available.

Aquatic toxicity (chronic)
Test data are not available for the complete mixture.
12.2 **Persistence and degradability**

**Biodegradation**
The study does not need to be conducted because the substance is inorganic.

**Persistence**
The study does not need to be conducted because the substance is inorganic.

12.3 **Bioaccumulative potential**
Data are not available.

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

12.5 **Results of PBT and vPvB assessment**
Data are not available.

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.

**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)**
Class
-

14.4 **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)

Seveso Directive

<table>
<thead>
<tr>
<th>No</th>
<th>Dangerous substance/hazard categories</th>
<th>Qualifying quantity (tonnes) for the application of lower and upper-tier requirements</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>not assigned</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15.2 Chemical Safety Assessment

SECTION 16: Other information

Indication of changes (revised safety data sheet)
Indication of changes: Section 3, 8, 15

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>
</tbody>
</table>
### Descriptions of used abbreviations

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>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>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of &quot;Marine Pollutant&quot;)</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>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>vPvB</td>
<td>Very Persistent and very Bioaccumulative</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).

### Responsible for the safety data sheet

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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.