

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2015

Version number 1

Revision: 02.09.2015

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

- **Date of compilation:** 12.01.2004
- **1.1 Product identifier**
- **Trade name:** SILCAPAN 45MA
- **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:** *Insulating material*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**

SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH Auf dem Hüls 6 D-40822 Mettmann Germany	Tel.: +49 (0)2104/9727-0 Fax: +49 (0)2104/9727-25
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- **E-mail address of the competent person responsible for the Safety Data Sheet:** *sdb@csb-online.de*
- **Informing department:** Tel.: +49 (0)2104/9727-18
- **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 as hazardous according to the CLP regulation.
- **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:** *Mixture of the substances listed below with nonhazardous additions.*

· **Dangerous components:**

CAS: 1309-37-1 EINECS: 215-168-2	Diiron trioxide	substance with a Community workplace exposure limit	< 2.5%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂)		< 2.5%
CAS: 1344-95-2 EINECS: 215-710-8	Calciumsilicate	substance with a Community workplace exposure limit	50 - 100%
CAS: 9004-34-6 EINECS: 232-674-9	cellulose	substance with a Community workplace exposure limit	≤ 2.5%

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** *Take off contaminated clothing.*
- **After inhalation:** *Supply fresh air; consult doctor in case of symptoms.*
- **After skin contact:**
Rinse with lukewarm water and soap.
If skin irritation continues, consult a doctor.

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- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
Remove contact lenses, if present and easy to do.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Call a doctor immediately.
- **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.
- **For safety reasons unsuitable extinguishing agents** none
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Silica fumes
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on 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**
Avoid causing dust.
Do not breathe dust.
Avoid contact with skin and eyes.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**
Collect mechanically.
Prevent formation of dust.
Use appropriate industrial vacuum cleaners for dust removal.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
Provide suction extractors if dust is formed.
Avoid long or repeated skin contact.
Avoid contact with eyes.
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** Store away from foodstuffs.
- **Further information about storage conditions:**
Store under dry conditions.
Protect from humidity and keep away from water.

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· 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:

Respirable dusts are liberated only on abrasive treatment (e.g. sanding), but not from the product as delivered.

1344-95-2 Calciumsilicate	
WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ *inhalable dust, **respirable
1309-37-1 Diiron trioxide	
WEL (Great Britain)	Short-term value: 10* mg/m ³ Long-term value: 5* 10** 4*** mg/m ³ *fume (as Fe), **total respirable, ***respirable
9004-34-6 cellulose	
WEL (Great Britain)	Short-term value: 20* mg/m ³ Long-term value: 10* 4** mg/m ³ *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.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

Wash hands during breaks and at the end of the work.

· Breathing equipment:

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

· Protection of hands:

Protective gloves

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

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

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

Sensibilisation by the components in the glove materials is possible.

· Material of gloves

Leather gloves

Cotton gloves

· Penetration time of glove material Protective gloves should be replaced at first signs of wear.

· Eye protection: Safety glasses

· Body protection:

Loosely fitting long-sleeved protective work clothing recommended for protection against mechanical skin irritation.

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SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: solid in various forms

Colour: grey

· **Smell:** characteristic

· **Odour threshold:** not determined

· **pH-value:** not determined

· **Change in condition**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** Product is not flammable.

· **Ignition temperature:** not determined

· **Decomposition temperature:** not determined

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

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

· **Critical values for explosion:**

Lower: not determined

Upper: not determined

· **Oxidising properties** none

· **Vapor pressure:** not determined

· **Density:** not determined

· **Relative density** not determined

· **Vapour density (AIR = 1):** not determined

· **Evaporation rate** not determined

· **Solubility in / Miscibility with**

Water: insoluble

· **Partition coefficient (n-octanol/water):** not determined

· **Viscosity:**

dynamic: not applicable

kinematic: not applicable

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** Alcalinity caused by wet calcium silicate corrodes aluminium.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:**

 Water

 Aluminium

· **10.6 Hazardous decomposition products:**

 Carbon monoxide (CO) and Carbon dioxide (CO₂)

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Silica fumes

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

1309-37-1 Diiron trioxide

Oral	LD50	5000 mg/kg (rat)
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9004-34-6 cellulose

Oral	LD50	> 5000 mg/kg (rat)
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Dermal	LD50	> 2000 mg/kg (rabbit)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Dust particles may mechanically irritate the skin.
Longer lasting and/or repeated skin contact may cause irritation.
- **Serious eye damage/irritation** Dust particles may mechanically irritate the eye.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**
The product contains quartz.
Quartz is classified as carcinogenic by IARC and by the Senatskommission der DFG. This classification, however, is controversial and has been accepted neither by OSHA nor by EC.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** 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.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

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| · 14.1 UN-Number
· ADR, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es)
· ADR, IMDG, IATA
· Class | Void |
| · 14.4 Packing group
· ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards:
· Marine pollutant: | NO |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | - |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **Decree to be applied in case of technical fault:** Directive 2012/18/EU does not apply.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **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
Düsseldorfer 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)

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*LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative*

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