

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 2 Nov 2022

Print date: 2 Nov 2022

Version: 1.2



PSGi GEOGROUT 1 A-Komponente

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

1.1. Product identifier

Trade name/designation:

PSGi GEOGROUT 1 A-Komponente

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

No data available

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

TPH Bausysteme GmbH

Nordportbogen 8

22848 Norderstedt

Germany

Telephone: +49 40 52 90 66 78-0

Telefax: +49 40 52 90 66 78-78

E-mail: info@tph-bausysteme.com

Website: www.tph-bausysteme.com

E-mail (competent person): sdb-info@tph-bausysteme.com

1.4. Emergency telephone number

24h: International access phone number: +1-813-248-0585 /// United States, Canada, Puerto Rico, U.S. Virgin Islands: 1-800-255-3924 (Contract No. MIS7249185) /// Australia: 1-300-954-583 /// Brazil: 0-800-591-6042 /// China: 400-120-0751 /// India: 000-800-100-4086 /// Mexico: 800-099-0731

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

Supplemental hazard information: none

Precautionary statements: none

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|-----------------------|
| CAS No.: 7631-86-9 EC No.: 231-545-4 | silicon dioxide The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. | 75 - < 90 weight-% |

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air.

Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

ABC-powder Foam Water Water spray jet

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid breathing dust/fume/gas/mist/vapours/spray. Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep/Store only in original container.

Further information on storage conditions:

Conditions to avoid: UV-radiation/sunlight Heat Frost

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|--------------------------------------|--|--|
| CH | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 4 mg/m ³ ⑤ (einatembare Fraktion) SSC; Tox: Lungenfibrose |
| HTP (FI) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 5 mg/m ³ |
| EE | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 2 mg/m ³ ⑤ 1 |
| LV | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 1 mg/m ³ |
| WEL (GB) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 2.4 mg/m ³ ⑤ (Silica, amorphous; respirable fraction) |

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|--|--|--|
| WEL (GB) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 6 mg/m ³ ⑤ (Silica, amorphous; inhalable fraction) |
| DFG (DE) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 0.02 mg/m ³ ② 1.6 mg/m ³ ⑤ (alveolengängige Fraktion) |
| IE | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 2.4 mg/m ³ ⑤ (Silicon dioxide, amorphous, respirable fraction) |
| IE | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 6 mg/m ³ ⑤ (Silicon dioxide, amorphous, inhalable fraction) |
| HR | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 2.4 mg/m ³ ⑤ (Kremena zemlja (amorfna) alveolarna frakcija) |
| HR | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 6 mg/m ³ ⑤ (Kremena zemlja (amorfna) respirabilna frakcija) |
| SI | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 4 mg/m ³ ⑤ (frakcija ki jo je mogoče vdihniti) Y |
| BG | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 0.07 mg/m ³ ⑤ (Силициев диоксид свободен, аморфен, синтетичен от кон-дензационни и електротермични процеси; алвеоларна фракция) |
| BG | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 1 mg/m ³ ⑤ (Силициев диоксид свободен, аморфен и криптокристален, от природни утаечни процеси; алвеоларна фракция) |
| BG | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 4 mg/m ³ ⑤ (Силициев диоксид свободен, аморфен и криптокристален, от природни утаечни процеси; фракция, която може да бъде вдишана) |
| BG | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 10 mg/m ³ ⑤ (Силициев диоксид свободен, аморфен, синтетичен, от утаечни процеси (силикагел); фракция, която може да бъде вдишана) |
| NO | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 1.5 mg/m ³ ⑤ (alveolar fraksjon) |
| MAK (AT) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 4 mg/m ³ ⑤ (einatembare Fraktion) |
| IDLH (US) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 3,000 mg/m ³ |
| OSHA (US) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 80 mg/m ³ ⑤ (total dust) |
| OSHA (US) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 20 mppcf |

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| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|---|--|--|
| NIOSH (US) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 6 mg/m ³ |
| TRGS 900 (DE) | silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 | ① 4 mg/m ³ ⑤ (einatembare Fraktion) DFG, 2, Y |
| TRGS 900 (DE) | Hydrocarbons, TRGS 900 | ① 0 mg/m ³ ⑤ Mass fraction (wt %): 0 |

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: not determined

Odour: not determined

Safety relevant basis data

| Parameter | Value | at °C | ① Method ② Remark |
|--|-----------------------------|-------|----------------------|
| pH | 9 - 11 | | |
| Melting point | <i>not determined</i> | | |
| Freezing point | <i>not determined</i> | | |
| Initial boiling point and boiling range | 100 °C | | |
| Decomposition temperature | <i>not determined</i> | | |
| Flash point | > 60 °C | | |
| Evaporation rate | <i>not determined</i> | | |
| Auto-ignition temperature | <i>not determined</i> | | |
| Upper/lower flammability or explosive limits | <i>not determined</i> | | |
| Vapour pressure | 230 Pa | 20 °C | |
| Vapour density | <i>not determined</i> | | |
| Density | 1.1 - 1.3 g/cm ³ | | |

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| Parameter | Value | at °C | ① Method ② Remark |
|--|-----------------------|-------|----------------------|
| Relative density | <i>not determined</i> | | |
| Bulk density | <i>not determined</i> | | |
| Water solubility | <i>not determined</i> | | |
| Partition coefficient: n-octanol/water | <i>not determined</i> | | |
| Dynamic viscosity | 9 – 10 mPa* s | 20 °C | |
| Kinematic viscosity | <i>not determined</i> | | |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4

LD₅₀ oral: 5,100 mg/kg (Rat)

LD₅₀ dermal: 5,100 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (dust/mist): >5 mg/L

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

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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.

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

| |
|--|
| silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 |
| LC ₅₀ : 5,000 mg/L 4 d (fish, Danio rerio (zebrafish)) |
| EC ₅₀ : 10,000 mg/L (crustaceans, Daphnia magna (Big water flea)) 24h |
| EC ₅₀ : 440 mg/L 3 d (Algae/water plant, Selenastrum capricornutum) |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

| |
|---|
| silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4 |
| Results of PBT and vPvB assessment: — |

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|--|--|--|
| 14.1. UN number or ID number | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |

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| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|--|--|--|
| 14.2. UN proper shipping name | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| 14.3. Transport hazard class(es) | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.4. Packing group | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.5. Environmental hazards | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.6. Special precautions for user | | | |
| not relevant | not relevant | not relevant | not relevant |

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

 [DE] National regulations

Water hazard class

WGK:

nwg - nicht wassergefährdend

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

16.6. Training advice

No data available

16.7. Additional information

No data available