

Silica sand or Quartz gravel are not hazardous, so this MSDS is made voluntarily.

**Part 1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier

Silica sand, Quartz gravel

REACH Registration N°

Exempted in accordance with Annex V.7

Trade names**AQUAGRAN<sup>®</sup>, SILIGRAN<sup>®</sup>, SILICA-MIX<sup>®</sup>, Quartz gravel, Quartz sand, Silica sand**1.2 Relevant identified uses of the substance or mixture and uses advised againstRelevant identified uses (non exhaustive list): Water treatment, raw material for chemical, foundry, glass  
molar industry etc.Uses advised against:

none

1.3 Details of the supplier of the safety data sheetCompany name

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1.4 Emergency Telephone number:

Mr. Vespermann Phone N°: ++49 170 / 56 38 731

Emergency Telephone number:

Mr. Natusch Phone N°: ++49 174 / 31 74 571

**Part 2. Hazards Identification**2.1 Classification of the substance or mixtureThis product does not meet the criteria for classification as hazardous as defined in the Regulation  
EC 1272/2008 and in Directive 67/548/EEC.Regulation EC 1272/2008: No classificationClassification EU (67/548/EEC): No classification2.2 Label elements:

none

2.3 Other hazardsThis product is an inorganic substance and does not meet the criteria for PBT or vPvB in  
accordance with Annex XIII of REACH.Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica  
may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause  
lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and  
breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and  
controlled.

This product should be handled with care to avoid dust generation.

**Part 3. Composition/Information on ingredients**Main constituent

Quartz

AmountSiO<sub>2</sub> > 96%EINECS N°

238-878-4

CAS N°

14808-60-7

Impurities

This product contains less than 1 % of respirable quartz.

**Part 4. First aid measures**4.1 Description of first aid measures

Eye contact: Rinse with copious quantities of water and seek medical attention if irritation persists.  
Inhalation: Movement of the exposed individual from the area to fresh air is recommended.  
Ingestion: No first aid measures required.  
Skin contact: No special first aid measures necessary.

4.2 Most important symptoms and effects both acute and delayed

No acute and delayed symptoms and effects are observed.

4.3 Indication of any immediate medical attention and special treatment needed

No specific actions are required.

**Part 5. Fire-fighting measures**5.1 Extinguishing media

No specific extinguishing media is needed.

5.2 Special hazards arising from the substance or mixture

Non combustible. No hazardous thermal decomposition.

5.3 Advice for firefighters

No specific fire-fighting protection is required.

**Part 6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures

Avoid airborne dust generation, wear personal protective equipment in compliance with national legislation.

6.2 Environmental precautions

No special requirements.

6.3 Methods and material for containment and cleaning up

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.

6.4 Reference for other sections

See sections 8 and 13.

**Part 7. Handling and storage**7.1 Precautions for safe handling

Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting.  
Do not to eat, drink and smoke in work areas; wash hands after use; remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilitiesTechnical measures/Precautions:

Minimise airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting.

7.3 Specific end use(s)

If you require advice on specific uses, please contact your supplier.

**Part 8. Exposure controls/personal protection****8.1 Control parameters**

- In Germany: Legal exposure limits according to TRGS 900 are:  
3 mg/m<sup>3</sup> respirable crystalline silica dust,  
10 mg/m<sup>3</sup> respirable dust.
- In the Netherlands: The OEL (Occupational Exposure Limit) for respirable quartz dust 0.075 mg/m<sup>3</sup> measured as an 8 hour TWA (Time Weighted Average).
- Other countries: For the equivalent limits please consult a competent occupational hygienist or the local regulatory authority.

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

**8.2.2 Individual protection measures, such as personal protective equipment**

- Eye/face protection: Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.
- Skin protection: No specific requirement. For hands, see below. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.
- Hand protection: Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.
- Respiratory protection: In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation.

**8.2.3 Environmental exposure controls**

Avoid wind dispersal.

**Part 9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- |   |  |
|---|--|
| a) Appearance:                                  | solid, yellow, grey-white or multicoloured |
| Grain shape:                                    | angular                                    |
| b) Odour:                                       | odourless                                  |
| c) Odour threshold:                             | Not relevant                               |
| d) pH:  | 5 - 8 (400g/l H <sub>2</sub> O at 20°C)    |
| e) Melting point:                               | ca. 1710°C                                 |
| f) Sintering point:                             | Not applicable                             |
| g) Flash point:                                 | Not applicable                             |
| h) Velocity of vaporization:                    | Not applicable                             |
| i) Flammability:                                | Not applicable                             |
| j) upper/lower limit of inflammation/explosion: | Not applicable                             |
| k) Vapour pressure:                             | Not applicable                             |
| l) Vapour density:                              | Not applicable                             |
| m) Relative density:                            | 2,65 g/cm <sup>3</sup> (20°C)              |
| n) Solubilities:                                | - in water: negligible                     |
|   | - in hydrofluoric acid: yes                |
| o) Coefficient of dispensation n-octanol/water: | Not applicable                             |
| p) Temperature of self-inflammation:            | Not applicable                             |
| q) Temperature of decomposition:                | Not applicable                             |
| r) Viscosity:                                   | Not applicable                             |
| s) Explosive properties:                        | Not applicable                             |
| t) Oxidize properties:                          | Not applicable                             |

**9.2 Other information**

No other information.

**Part 10. Stability and reactivity**

- 10.1 Reactivity  
Inert, not reactive.
- 10.2 Chemical stability  
Chemically stable.
- 10.3 Possibility of hazardous reactions  
No hazardous reactions.
- 10.4 Conditions to avoid  
Not relevant.
- 10.5 Incompatible materials  
No particular incompatibility.
- 10.6 Hazardous decomposition products  
Not relevant.

**Part 11. Toxicological Information**

- 11.1 Information on toxicological effects
- |                                       |   |
|---------------------------------------|---|
| a) Acute toxicity:                    | Based on available data, the classification criteria are not met. |
| b) Skin corrosion/irritation:         | Based on available data, the classification criteria are not met. |
| c) Serious eye damage/irritation:     | Based on available data, the classification criteria are not met. |
| d) Respiratory or skin sensitisation: | Based on available data, the classification criteria are not met. |
| e) Germ cell mutagenicity:            | Based on available data, the classification criteria are not met. |
| f) Carcinogenicity:                   | Based on available data, the classification criteria are not met. |
| g) Reproductive toxicity:             | Based on available data, the classification criteria are not met. |
| h) STOT-single exposure:              | Based on available data, the classification criteria are not met. |
| i) STOT-repeated exposure:            | Based on available data, the classification criteria are not met. |
| j) Aspiration hazard:                 | Based on available data, the classification criteria are not met. |

**Part 12. Ecological Information**

- 12.1 Toxicity  
Not relevant
- 12.2 Persistence and degradability  
Not relevant
- 12.3 Bioaccumulative potential  
Not relevant
- 12.4 Mobility in soil  
Negligible
- 12.5 Results of PBT and vPvB assessment  
Not relevant
- 12.6 Other adverse effects  
No specific adverse effects known

**Part 13. Disposal considerations**

- 13.1 Waste treatment methods
- Waste from residues/unused products  
Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations.
- Packaging  
Dust formation from residues in packaging should be avoided and suitable worker protection assured.  
Store used packaging in enclosed receptacles.  
Recycling and disposal of packaging should be carried out in compliance with local regulations.  
The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorised waste management company.

**Part 14. Transport information**

- 14.1 UN-Number  
Not relevant
- 14.2 UN proper shipping name  
Not relevant
- 14.3 Transport hazard classes  
ADR: Not classified  
IMDG: Not classified  
ICAO/IATA: Not classified  
RID: Not classified
- 14.4 Packing Group  
Not relevant
- 14.5 Environmental hazards  
Not relevant
- 14.6 Special precautions for user  
No special precautions
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not relevant

**Part 15. Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
Chemical safety assessment  
International legislation/requirements:  
Regulation 1907/2006 (REACH): exempted, according to art. 2, paragraph 7.  
European Directive on Dangerous Substances 67/548:  
this product is not classified as dangerous  
European Community Labelling: Labelling not required  
European Inventory of Commercial Chemical Substances:  
All of the components of this product are listed on the EINECS  
Inventory or exempt from notification requirements.  
Germany:  
TRGS 900 and TRGS 906
- 15.2 Chemical safety assessment  
Exempted from REACH Registration in accordance with Annex V.7

**Part 16. Other information**

- a) Indication of the changes made to the previous version of the SDS  
Additionally in accordance with Regulation (EU) 2015/830 an Stand update
- b) Abbreviations and Acronyme  
ADR/RID European Agreements on the transport of Dangerous goods by Road/Railway  
CAS Chemical Abstracts Service  
EG/EINECS European Inventory of Existing Commercial chemical Substances  
IATA International Air Transport Association  
IBC-Code International standard for the safe carriage by sea of dangerous and noxious liquid chemicals in bulk  
ICAO-TI Technical Instructions for the safe transport of dangerous goods by air  
IMGD International Maritime Code for Dangerous Goods  
MARPOL Marine Pollution (International Convention for the Prevention of Marine Pollution from Ships)  
PBT Persistent, bio-accumulative and toxic  
REACH Registration, Evaluation and Authorisation of Chemicals ((EG) 1907/2006)  
STOT Specific target organ toxicity  
TRGS Technical guideline for the handling of hazardous materials  
vPvB Very persistent, very bioaccumulative
- c) Training:  
Workers must be trained in the proper use and handling of this product as required under applicable regulations.
- d) Liability:  
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