

QUARTZ or SILICA Sand is not hazardous, it is a natural product, so this MSDS is made voluntarily
Quartz gravel or Silica sand not to fall under the REACH-Regulation.

1. Product identification and company identification

- 1.1 Name of product:
AQUAGRAN[®], SILIGRAN[®], SILICA-MIX[®], Quartz gravel, Quartz sand, Silica sand
- 1.2 Application of product:
Water treatment, raw material for chemical, foundry, glass, mortar industry, etc.
- 1.3 Supplier and producer
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- 1.4 Contact: Mr. Vespermann +49 170 / 56 38 731

2. Possible hazard risks

- 2.1 Classification according to directive 67/548/EWG (hazardous substances): not hazardous
- 2.2 Classification according to directive 98/24/EWG (occupational safety): not hazardous
- 2.3 Danger for humans and environment: no danger
- 2.4 Further particulars: Ensure trapping of dust arising during the loading of silos. Respirable crystalline silica dust (< 5 µm) may cause lung fibrosis, commonly referred to as silicosis.

3. Composition / information of ingredients

- 3.1 Chemical character: alpha quartz (crystalline SiO₂)
- 3.2 EINECS-Nr. (EWG-No.): 238-878-4
- 3.3 CAS-No.: 14808-60-7
- 3.4 EG-No.: 2315454
- 3.5 UN-No.: not applicable
- 3.6 Dangerous ingredients: not applicable

4. First aid measures

- 4.1 After skin-contact: no first aid measure necessary
- 4.2 After eye-contact: careful and efficient rinse with copious quantities of clear water
- 4.3 After swallow: no first aid measure necessary
- 4.4 After inhalation : no first aid measure necessary

5. Fire fighting measures

- Silica sand and quartz gravel do not burn. No hazardous releases in case of fire.
- 5.1 Adequate extinguishing agents: every agent. It depends on environment
- 5.2 For safety inapplicable extinguishing agents: not known
- 5.3 Special dangers by composition or its combustion products: not known
- 5.3 Special protective equipments for fire fighting: not necessary
- 5.4 Further particulars: not known

6. Accidental release measures:

- 6.1 Personal precautions: avoid dust formation and dust exposure
- 6.2 Environmental precautions: no special requirement

7. Handling and storage:

- 7.1 Handling: prevent dust formation
- 7.2 Storage: no requirement and no restrictions
- 7.3 Defined uses: not applicable

8. Exposure controls / personal measures:

- 8.1 Occupational exposure limits: not applicable
- 8.2 Limit and observation: not applicable

9. Physical and chemical properties:

9.1 General information

Look: white/yellow gravel or sand
State of aggregation: solid
Delivery condition: solid
Smell: odourless

9.2 Significant details for health and environmental protection

pH-value: not applicable
Melting point: > 1600°C
Flash point: not applicable
Flammability: not applicable
Explosion risk: not applicable
Oxidising properties: not applicable
Vapour pressure: not applicable
Density: 2,65 g/cm³ (20°C)
Solubility in water: none
Solubility in fluorhydric acid: yes
Coefficient of dispensation n-octanol/water: not applicable
Viscosity: not applicable
Vapour density : not applicable
Velocity of vaporization: not applicable

9.3 Further particulars:

Sintering point: 1,400 – 1,470°C
Melting point: 1,620 – 1,720 °C

10. Stability and reactivity:

10.1 Conditions to be avoided: none
10.2 Substances to be avoided: none
10.3 Hazardous decomposition products:
10.3.1 Necessary stabiliser: not applicable
10.3.2 Possible exothermal reaction: none
10.3.3 Relevant effects for sureness by changing state of aggregation: not applicable
10.3.4 Hazardous decomposition products by contact with water: not applicable
10.3.5 Possible instable decomposition products : not applicable

11. Toxicological information:

11.1 Acute toxicity; LD 50 oral, rat: not applicable
11.2 Further particulars: not applicable

12. Ecotoxicological information

Quartz gravel and silica sand are non toxic.

13. Disposal considerations

13.1 Waste type: household waste
13.2 Certificate obligation : none
13.3 Packaging waste management: recycling systems

14. Transport information:

No hazardous good in terms of international transport regulations. No special transport information. Avoid dust spreading.

15. Regulatory information:

15.1 Regulations on Hazardous Substances: not subject to label regulations

16. Other Information:

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.