

# Safety Data Sheet

In compliance with Regulation (EG) Nr. 1907/2006, (EG) Nr. 1272/2008 und (EG) Nr. 453/2010



Stand 01/2016

**Quartz sand is not hazardous, the safety data sheet (MSDS) is made voluntarily**

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Quartz sand**

Index-No.: deleted

EINECS: 238-878-4

CAS-Nr.: 14808-60-7

REACH-Registrationno.: Exempted in accordance with Annex V.7

**Trade names: Quarzsand, Bauchemiesand, Bauindustriesand, GolfSandPro, BeachSandPro, FußballSandPro, SprungSandPro, SpielSandPro, FallschutzSandPro, Bausand, Putzsand, Auffüllsand, ReitSandPro, FarbSandPro**

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

**Relevant identified uses (non exhaustive list):**

Main applications: Construction chemicals, building industry, chemical industry, gardening and landscaping, aggregates for concrete according to EN 12620, according to aggregate for mortar EN 13139, glass industry, pet supplies, sports and playground, golf course construction, horse court construction, etc.

### 1.3 Details of the supplier of the safety data sheet

**Company name:**

Pleinfelder Quarzsand GmbH & Co. KG  
Nordring 20, D-91785 Pleinfeld

**Phone / Fax / mail to**

+49 9144 608229-0 / -30 / info@pleinfelder-quarzsand.de

### 1.4 Emergency Phone No.:

Peter Berschneider 0171/1965040

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

The quartz sand itself is not dangerous. Respirable Crystalline Silica (A Group) can but have adverse health effects.

Inhalation of respirable crystalline silica dust (A Group), on a permanent or very high Concentration, can cause silicosis (pneumoconiosis as well known). The main symptoms of silicosis are coughing and wheezing.

It is therefore recommended to keep the dust emissions as low as possible and to prevent inhalation.

Classification according to Directive 67/548 / EEC or Directive 1999/45 / EC (substances or mixtures):deleted, no classification

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## 2.2 Label elements

Label elements according to Regulation (EC) no. 1272/2008 (substances)

none

## 2.3 Sonstige Gefahren

The product is an inorganic substance and does not meet the criteria of a PBT or VPBT-substance.

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## 3. Composition/Information on ingredients

3.1 The product is by mechanical processing (crushing, screening, grinding, etc.) of naturally occurring solid rock or loose rock produced with different mineral components.

Generic name: Quartz sand  
Index-No.: deleted  
EINECS: 238-878-4  
CAS-Nr.: 14808-60-7

Impurities, stabilizing additives and individual constituents:  
This product contains less than 1% respirable quartz.  
Main constituent: Quartz  
EINECS: 238-878-4  
CAS-Nr.: 14808-60-7

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## 4. First aid measures

### 4.1 Description of first aid measures

No first aid measures required.

#### **Inhalation:**

Supply fresh air; with complaints seek medical advice

#### **Skin contact:**

No special first aid measures necessary, wash with water and soap.

#### **Eye contact:**

Rinse with copious quantities of water and seek medical attention if irritation persists.

### 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.

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## 5. Fire-fighting measures

### 5.1 Extinguishing media

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No specific extinguishing media is needed.

## 5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren

Keine

## 5.3 Special hazards arising from the substance or mixture

Non combustible. No hazardous thermal decomposition.

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## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Control of dust, ensure that sufficient ventilation and take a relevant respiratory protection when exceeding the exposure limit requirements acc. TRGS 900.

### 6.2 Environmental precautions

No special requirements.

### 6.3 Methods and materials 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.

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## 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 incompatibilities

Avoid dust formation

### 7.3 Specific end use(s)

For information on specific uses, please refer to the guide of good practices for Ge health protection of workers through the Good Handling and Use of Crystalline Sili-dioxide and containing the same products in heading 16.

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## 8. Exposure controls/personal protection

### 8.1 Control Parameters

#### 8.1.1 Grenzwerte für die Exposition am Arbeitsplatz und/oder biologische Grenzwerte Arbeitsplatzgrenzwerte (AGW) Deutschland

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.

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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.

## 8.1.2 DNEL- and PNEC- values

No mandatory registration under Reach substance, therefore no relevant data available.

## 8.1.3 Control-Banding (z.B. ILO, EMKG)

No control banding available

## 8.2 Limitation and control of exposure

### 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

#### Hand and skin 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 Delimitation and monitoring of the environmental exposition

When handling the product are negative ecological effects are not known. The product is a natural product, made from naturally occurring unconsolidated or hard rocks of the crust. When handling dust should be avoided.

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:

- Physical state:	firmly
- Color:	<b>ivory, light beige, beige</b>
Odor:	Odorless
Odour threshold:	Not relevant
ph:	<b>6,0 – 6,5</b>

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Meltingpoint:	ca. 1700°C
Sintering point:	Not relevant
Flash point:	Not relevant
Velocity of vaporization:	Not relevant
Flammability	Not relevant
Upper/lower limit of inflammati- on/explosion:	Not relevant
Vapour pressure:	Not relevant
Vapour density:	Not relevant
Relative density:	2,65 g/cm <sup>3</sup> bei 20°C
Solubilities in water:	<b>insoluble</b>
in hydrofluoric acid:	<b>ja</b>
Temperature of self- inflammation:	Not relevant
Temperature of decomposition:	Not relevant
Viscosity:	Not relevant
Explosive properties:	Not relevant
Oxidize properties:	Not relevant

## 9.2 Other information

No other information

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## 10. Stabilität und Reaktivität

### 10.1 Reactivity

Inert, not reactive.

### 10.2 Chemical stability

Chemically stable under normal ambient conditions and under the anticipated storage and handling conditions of temperature and pressure.

### 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

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity:

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

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**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.

**Reproductive toxicity:**

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

**STOT-single exposur**

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.

**For mixtures the following effects**

The product is not a mixture gem. EC 1907/2006

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## 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

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## 13. Disposal considerations

### 13.1 Waste treatment methods

Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations.

### Packaging

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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.

**Waste code according to Waste Catalogue (AVV)-DE**  
010408

**Special precautions**  
No special precautions necessary.

**Relevant EU or other regulations**  
Not relevant

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## 14. Angaben zum Transport

**14.1 UN-Numer**  
Not relevant, the product is not classified as hazardous under transport regulations

**14.2 UN proper shipping name**  
**ADR/RID**  
Not relevant, the product is not classified as hazardous under transport regulations

**IMDG-Code / ICAO-TI / IATA-DGR**  
Not relevant, the product is not classified as hazardous under transport regulations

**14.3 Environmental hazards**  
Not relevant, the product is not classified as hazardous under transport regulations

**14.4 Packing Group**  
Not relevant

**14.5 Environmental hazards**  
Not relevant

**14.6 Special precautions for user**  
none

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**  
Not relevant

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## 15. Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**Chemical safety assessment**

**International legislation/requirements:**

**Water hazard class:** not hazardous acc. VwVwS

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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:

Technical Instructions on Air Quality (TA-Luft)  
Ordinance on protection against hazardous substances  
Announcement 220 on hazardous substances "safety data sheet"  
TRGS 402 "Identification and assessment of the risks from activities involving hazardous substances: Inhalation Exposure"  
TRGS 500 "Protective measures"  
TRGS 559 "Mineral Dust"  
TRGS 900 "Occupational Exposure Limits"  
TRGS 906 "List of carcinogenic activities or procedures according to § 3 para. 2 no. 3 Gef-StoffV"

## 15.2 Chemical safety assessment

The product is the REACH registration requirements pursuant to Art. 2, para. 7b except in conjunction with Annex V Nr. 7. A Chemical Safety Assessment is not required.

## 16. Other Information

### **Literature and data sources**

Quartz workplace exposures, BIGA Report 8/2006  
Practice Note "quartz dust" [www.nepsi.eu](http://www.nepsi.eu)

### **Methods in accordance with Article 9 of Regulation (EC) no. 1272/2008 were used for evaluation of information for classification purposes**

The product is not a mixture

### **xt of R phrases, hazard statements, safety phrases and / or safety is 2 to 15 referred to in sections**

deleted

### **Training for employess**

Workers must be informed about the silica content of the product and be trained in determined purpose handling the product. The requirements of the TRGS 559 "Mineral Dust"

### **CLP labeling of mixtures (2015 as a voluntary information in addition to the label by 1999/45/EC)**

The product is not a mixture

### **Materials other providers**

Will not manufactured by Pleinfelder silica sand or materials supplied in conjunction with or instead of Pleinfelder materials used, the recipients of such materials itself is responsible to receive all necessary information about these or other materials from the manufacturer or supplier of the materials in question, eg. to technical data and other product characteristics.

### **Social dialogue on respirable crystalline silica**



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On April 25, 2006, a cross-industry agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed. This autonomous agreement, which was financially supported by the European Commission, is based on a Good Practices Guide. The conditions laid down in the Agreement came into force on 25 October 2006. The Convention was published in the Official Journal of the European Union (2006 / C 279/02). The text of the Agreement and its annexes and the Good Practices Guide, are available from <http://www.nepsi.eu> and provide useful information and guidance for the handling of products containing respirable crystalline silica.

With many years of exposure by chronic inflammation in the airways may be caused by a high dust load. Prolonged or continued repeated inhalation of respirable crystalline silica dust can cause silicosis, a nodular connective tissue lung. Silicosis is caused by the deposition of respirable crystalline silica (RCS) in the alveoli (alveoli).

## Liability

The present information provides the knowledge of Pleinfelder Quarzsand GmbH & Co. KG again accurate and reliable at the time of compilation of information. However, no representation, warranty or guarantee is made to the accuracy, reliability or completeness of the information contained herein. It is the user's responsibility to satisfy itself of the suitability and completeness of such information for his particular application.