

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 58694 Cristobalite Sand, 0.1 - 1 mm

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Revised edition: 22.05.2020

Version: 2

Printed: 06.09.2022

### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Cristobalite Sand, 0.1 - 1 mm

*Article No.:* 58694

*UFI:* --

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*  
Functional filler in polymer systems

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* www.kremer-pigmente.com

*E-Mail:* info@kremer-pigmente.com

*Importer:* --

#### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

#### 2.3. Other Hazards

*Handling of this product (crushing, grinding) can cause airborne*

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*dust which may contain quartz.  
Frequent or repeated inhalation of airborne silicate can cause silicosis. The symptoms of silicosis are coughing and breathlessness.*

### 3. Composition/Information on Ingredients

#### 3.1. Substance

#### 3.2. Mixture

*Chemical Characterization:* Cristobalite sand, SiO<sub>2</sub>. Alpha-Quarz

*Information on Components / Hazardous Ingredients:*

Quartz, Silica (STOT RE1, H372)	> 98 %	CAS-Nr: 14808-60-7 EINECS-Nr: 238-878-4 EC-Nr:
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Crystalline silica (cristobalite)	CAS-Nr: 14464-46-1 EINECS-Nr: 238-455-4 EC-Nr:
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*Additional information:*

*This product contains less than 1% of respirable silica, and is therefore not classified as harmful.  
Exempted from the mandatory REACH Registration (Annex V No. 7)*

### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

*General information:*

*Take affected persons out into the fresh air.*

*After inhalation:*

*Take affected person to fresh air.*

*After skin contact:*

*No special measures required.*

*After eye contact:*

*Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.*

*After ingestion:*

*No special measures required.*

#### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*No further information available.*

*Effects:*

#### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*No special first-aid measures necessary.*

### 5. Fire-Fighting Measures

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### 5. 1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

### 5. 2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Product is not flammable.*

*No thermal decomposition.*

### 5. 3. Advice for Firefighters

*Protective equipment:*

*No special measures required.*

*Further information:*

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## 6. Accidental Release Measures

### 6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Avoid formation of dust, wear protective clothing.*

### 6. 2. Environmental Precautions

*Environmental precautions:*

*No special measures required.*

### 6. 3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Do not clean dry.*

*Clean up by moistening product to avoid dust formation or use special vacuum cleaner.*

### 6. 4. Reference to other Sections

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## 7. Handling and Storage

### 7. 1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid formation of dust.*

*Areas in which dust is formed must be equipped with appropriate ventilation systems.*

*Use suitable respiratory protection in case of inadequate ventilation.*

*Hygienic measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Remove contaminated clothing before entering dining areas.*

### 7. 2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

*Requirements for storage areas and*

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*containers:*

*Store product in closed containers.*

*Information on fire and explosion protection:*

*Storage class:*

*Further Information:*

### 7.3. Specific End Use(s)

*Further information:*

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*TRGS 900*

*Quartz, (CAS 14808-60-7), TWA (TRGS 900): 0.10 A mg/m<sup>3</sup> (8h; Y; DFG)*

*Parameters to be controlled:*

*Silica, Quartz (8h, air-borne; TWA): 0.15 mg/m<sup>3</sup> (AT; CH); 0.1 mg/m<sup>3</sup> (FR; NO; GB; SE; BE; DK); 0.05 mg/m<sup>3</sup> (IT; ES)*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation in case of dust formation.*

*Personal Protection*

*General protective measures:*

*Do not inhale dust. Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*Dust mask recommended when very dusty with particle filter P2/P3 or half-mask with particle filter FP2/FP3.*

*Hand protection:*

*Not required*

*Protective glove material:*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Persons suffering from dermatitis or who have particularly sensitive skin should wear protective gloves and clothing*

*Environmental precautions:*

*Avoid wind-blown dispersal.*

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### 9. Physical and Chemical Properties

#### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>grains</i>
<i>Color:</i>	<i>white</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>not relevant</i>
<i>pH-Value:</i>	<i>6.5 (400 g/l H<sub>2</sub>O)</i>
<i>Melting temperature:</i>	<i>&gt; 1610°C</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not combustible</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>non-combustible</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>This product is a non-volatile solid.</i>
<i>Density:</i>	<i>2.65 g/cm<sup>3</sup></i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>not applicable</i>
<i>Decomposition temperature:</i>	<i>not applicable</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>
<i>Explosive properties:</i>	<i>not applicable</i>
<i>Oxidizing properties:</i>	

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*none*

*Bulk density:*

### 9.2. Further Information

*Solubility in solvents:*

*Soluble in hydrofluoric acid*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Unknown.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid formation of dust.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*None known.*

### 10.6. Hazardous Decomposition Products

*None known.*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*No toxicity expected.*

*LD50, oral:*

*LD50, dermal:*

*LC50, inhalation:*

*Primary effects*

*Irritant effect on skin:*

*No irritant effect known.*

*Irritant effect on eyes:*

*No irritant effect known.*

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*Inhalation:*

*No irritant effect known.*

*Ingestion:*

*No irritant effect known.*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*No mutagenic effects known.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No relevant data found.*

*Specific target organ toxicity (STOT):*

*No negative effects.*

*Additional toxicological information:*

*Frequent or repeated inhalation of airborne cristobalite powder can cause silicosis.*

*The IARC (International Agency for Research on Cancer) notes that crystalline SiO<sub>2</sub> which is inhaled at the working place can cause pulmonary cancer.*

*However, they further note that it does not apply for all working places and not all types of crystalline SiO<sub>2</sub> (IARC-Monographs, 1997, Vol. 68).*

*In June 2003 the SCOEL (EU Scientific Committee on Occupational Exposure Limits) came to the conclusion that silicosis is the major effect of inhaling respirable crystalline silicon dioxide.*

*Persons who already are suffering from silicosis have a higher cancer risk. The symptoms of silicosis are coughing and breathlessness. The dust level should be measured and controlled continuously.*

*It can therefore be concluded that the risk of cancer can be reduced by avoiding silicosis (SCOEL SUM Doc 1994-final, June 2003).*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*No toxicity expected.*

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

### 12.2. Persistency and Degradability

*No information available.*

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### 12.3. Bioaccumulation

*Not relevant.*

### 12.4. Mobility

*No data available.*

### 12.5. Results of PBT- und vPvP Assessment

*This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.*

### 12.6. Other Adverse Effects

*Water hazard class:*

*Product is not harmful for water organisms.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Not considered to be environmentally harmful.*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*If product cannot be reused or recycled, it has to be disposed of according to current local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*Waste Code No.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

### 14.2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR / DOT (US) (land transportation).*

*IMDG/IATA:*

*Not hazardous goods*

### 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*not applicable*

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*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

### 14. 4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

### 14. 5. Environmental Hazards

*Not classified as environmentally hazardous.*

### 14. 6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

### 14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

*not applicable*

### 14. 8. Further Information

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## 15. Regulatory Information

### 15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*0, not hazardous (German Regulation)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

### 15. 2. Chemical Safety Assessment

*Exempted from the mandatory REACH Registration (Annex V No. 7)*

### 15. 3. Further Information

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## 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*