

Material Safety Data Sheet (MSDS)

Product Name: Silica Sand **Grain Size:** < 0.5 mm **CAS Number:** 14808-60-7

Formula: SiO₂

Recommended Use: Industrial applications (e.g. glass manufacturing, foundry casting, filtration

media)

1. Identification

Product Name: Silica SandTrade Name: Quartz Sand

• **Supplier:** Basekim

• **Use:** Industrial – construction, glass, filtration, etc.

2. Hazard Identification

Classification:

Not classified as hazardous under GHS criteria in bulk form.

- Hazard Statements:
 - o Prolonged inhalation of respirable crystalline silica dust may cause silicosis.

3. Composition / Information on Ingredients

Component	CAS Number	% by Weight
Silicon Dioxide (SiO ₂)	14808-6 <mark>0-7</mark>	>99.4%
Iron Oxide (Fe₂O₃)	1309-37-1	<0.1%
Titanium Dioxide (TiO₂)	13463-67-7	≤0.1%
Aluminum Oxide (Al₂O₃)	1344-28-1	<0.5%
Chromium Oxide (Cr ₂ O ₃)	1308-38-9	0%

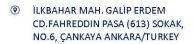
4. First Aid Measures

- Inhalation: Move to fresh air. Seek medical attention if symptoms persist.
- Skin Contact: Rinse with water. No known skin hazards.
- Eye Contact: Flush eyes with plenty of water for at least 15 minutes.
- Ingestion: Non-toxic but not intended for ingestion. Rinse mouth with water.

5. Fire-Fighting Measures

Flammability: Non-flammable
 Extinguishing Media: Not applicable
 Hazards from combustion: None

• Protective Equipment: Standard firefighting gear





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6. Accidental Release Measures

- Avoid generating dust.
- Use water spray or vacuum to collect material.
- Dispose of in accordance with local regulations.

7. Handling and Storage

- Handling: Avoid breathing dust. Use in well-ventilated areas.
- **Storage:** Store in a dry, cool place in sealed containers.

8. Exposure Controls / Personal Protection

- Occupational Exposure Limit (OEL):
 - OSHA PEL (TWA): 0.05 mg/m³ (respirable crystalline silica)
- Engineering Controls: Use dust collection or local exhaust
- Personal Protection:
 - Respiratory: Use NIOSH-approved respirator if dust is generated
 - Eyes: Safety goggles
 - Skin: Gloves (optional)

9. Physical and Chemical Properties

Property	Value	
Appearance	White/off-white solid	
Odor	Odorless	
рН	7.0 – 8.0	
Boiling Point	2230 °C	
Melting Point	1620 °C	
Density	2.65 g/cm ³	
Bulk Density	1.6 g/cm ³	
Solubility in Water	Insoluble	
Moisture	≤0.3%	
Loss on Ignition (LOI)	<0.2%	

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- Incompatible Materials: Hydrofluoric acid
- Hazardous Decomposition: None
- Polymerization: Will not occur

11. Toxicological Information

• Acute Toxicity: Not applicable





- Chronic Effects: Prolonged inhalation of fine crystalline silica dust may cause lung disease (silicosis).
- Carcinogenicity:
 - o IARC: Group 1 Carcinogenic to humans (respirable crystalline silica)

12. Ecological Information

- Environmental Impact: Not hazardous to the environment
- Mobility: Not mobile in soilPersistence: Chemically inert
- Bioaccumulation: None

13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations.
- Avoid creating dust during disposal.

14. Transport Information

- UN Number: Not regulated
- Transport Hazard Class: Not classified
- Packing Group: Not applicable
- Special Precautions: Avoid dust generation during transport

15. Regulatory Information

- GHS Classification: Not hazardous in bulk
- OSHA: Respirable crystalline silica is regulated
- REACH/TSCA: All components are listed

16. Other Information

- Prepared By: Basekim
- Disclaimer: This information is believed to be accurate but does not constitute a
 warranty. Users are advised to make their own investigations.