



MATERIAL SAFETY DATA SHEET (MSDS)

Silica Sand

SECTION 1: Product Identification

Product Name	Silica Sand (Quartz)
CAS Number	14808-60-7
Chemical Formula	SiO ₂
HSC No.	2505

SECTION 2: Hazards Identification

GHS Classification: STOT RE 1 (lungs) - Causes damage to lungs through prolonged or repeated inhalation exposure. Signal Word: DANGER. H372: Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation).

SECTION 3: Composition

Silicon Dioxide (Quartz) >= 99%. May contain trace impurities of iron oxide, aluminum oxide, and other minerals.

SECTION 4: First Aid Measures

- Inhalation: Move to fresh air. Seek medical attention if breathing difficulty persists.
- Skin: Wash with soap and water.
- Eyes: Rinse with water for at least 15 minutes. Remove contact lenses.
- Ingestion: Rinse mouth with water. Seek medical attention if symptoms occur.

SECTION 5: Firefighting Measures

Non-combustible material. Use extinguishing media appropriate for surrounding fire. Wear self-contained breathing apparatus.

SECTION 8: Exposure Controls

OSHA PEL (Respirable)	0.05 mg/m ³ (quartz)
ACGIH TLV (Respirable)	0.025 mg/m ³ (quartz)

Use NIOSH-approved respirator for dust. Wear safety glasses, protective gloves, and dust-tight clothing.

SECTION 9: Physical Properties

Appearance	White granular powder
Odor	Odorless
Melting Point	1710 deg C
Density	2.65 g/cm ³
Solubility in Water	Insoluble
pH	6.0-7.5



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SECTION 11: Toxicological Information

Prolonged inhalation of respirable crystalline silica may cause silicosis (lung fibrosis). Crystalline silica is classified as IARC Group 1 (carcinogenic to humans) when inhaled.

SECTION 14: Transport Information

Not classified as dangerous goods for transport. Not regulated under ADR/RID, IMDG, or IATA.