



PAN MARINE BLASTING ABRASIVES PTE LTD

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Product Data & Material Safety Data Sheet

Product name	Silica Sand
Chemical composition	Silica, SiO ₂ >99%
Grades available	M8-16 (1.2 - 2.4mm) M16-30 (0.5 - 1.2mm) M20-40 (0.5 - 0.85mm) M30-60 (0.2 - 0.6mm)

Physical and chemical properties

Appearance	Very hard, fine grained particles; off white/brownish granules
Odour	Odourless
Solubility	Insoluble in water
Specific gravity	2.56 (approximate)
Boiling point	2,230°C (approximate)
Melting point	1,710°C (approximate)
Density	1.5 MT/m ³

Hazards Identification

Ingestion	Not listed
Inhalation	Potential health effects of inhalation are as follows: <ol style="list-style-type: none">1. Silicosis: Respirable crystalline silica can cause silicosis, a fibrosis (scarring) of the lungs2. Tuberculosis: Silicosis increases the risk of tuberculosis
Skin absorption	Not available
Skin contact	Not available
Effects of overdose	<ol style="list-style-type: none">1. Acute effects: Short term exposure to silica may result in mild to temporary discomfort in the respiratory tract (similar to nuisance of dust). Short term exposure to excessive amounts of silica may cause severe inflammation of the lungs possibly coupled with fluid in the lungs, resulting in shortness of breath and low blood oxygen levels. Excessive inhalation of crystalline silica in short time is a serious health concern.2. Chronic Effects: Long term exposure (10 years to 30 years) may result in pulmonary fibrosis silicosis. Aggravates bronchitis, asthma and emphysema.

First Aid Measures

Ingestion	First aid procedures not normally required. If gastrointestinal discomfort occurs, take 1 or 2 glasses of water. Seek medical attention if conditions persist.
Inhalation	If there is a significant inhalation of crystalline silica, remove the victim immediately. Allow fresh air, give artificial respiration if victim is not

Eyes	breathing. Seek medical attention if conditions persist. Flush with clean water for at least 15 minutes, avoid rubbing. Seek medical attention if conditions persist.
Skin	Wash with soap and water. If discomfort and/or irritation persist, seek medical attention.

Fire Fighting Measures

Fire	Not considered to be a fire hazard.
Explosion	Not considered to be an explosion hazard.
Fire extinguishing media	Use any means for extinguishing surrounding fire.

Accidental Release Measures

Steps to be taken in case of spillage	Material may be dampened with water to reduce dust and collected for reprocessing or disposal. Vacuum or wet sweeping may be used to avoid dust dispersal.
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Handling and Storage

Precautions to be taken	Keep in tightly closed container and stored in ventilated areas. Use dustless method for handling, storage and clean up. Practice good housekeeping. Maintain, clean and test respirators in accordance to OSHA regulations. Wash clothing that has become dusty, do not breathe the dust from clothing. Containers of this material may be hazardous when empty since they retain product residues (dust, solid).
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Exposure Control / Personal Protection

Ventilation protection	Local exhaust as needed to reduce respirable dust level.
Respiratory protection	Any dust respirator (half faced) or any supplied air respirator.
Protective clothing	Normal work clothes.
Eye protection	Safety glasses with side shields as required.

Disposal Considerations

Waste disposal procedures	May be land filled according to local, state and federal regulations
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Transport Information

Regulation	Not regulated
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Stability and Reactivity

Stability	Stable under ordinary conditions of use and storage.
Hazardous decomposition product	At higher temperatures, can change crystal structure to form tridymite, which poses greater health hazards.
Hazardous	Will not occur.

Polymerization	
Incompatibilities	Strong alkalis, hydrofluoric acid, powerful oxidizers and flourine containing compounds.
Conditions to avoid	Dusting and incompatibles.

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