



# MATERIAL SAFETY DATA SHEET

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Approved by: Darius Nicpon

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## Chemical Product and Company Name

Product	SAND MIXTURE	ITEM No.: 442-B03E
Synonyms	Silicon dioxide; Quartz; Crystalline silica	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

## Section 2 Composition/Ingredients Information

Chemical Name	CAS#	%	TLV Units
Sand (Crystalline silica)	14808-60-7	> 99%	TWA: 0.1mg/m³ (respirable dust)

## Section 3 Hazards Identification

CAUTION! HIGH CONCENTRATION OF DUST MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE EYE IRRITATION. Target organs: Lungs	0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
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Health	1*
Flammability	0
Physical Hazard	0
Personal Protection	C

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## Section 4 First Aid Measures

**INGESTION:** Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Get medical advise.  
**INHALATION:** Remove to fresh air. Get medical attention if necessary.  
**EYE CONTACT:** Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops.  
**SKIN CONTACT:** Remove contaminated clothing. Flush thoroughly with mild soap and water.

## Section 5 Fire Fighting Measures

Sand will not support fire.

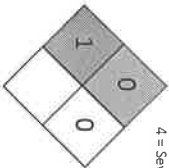
**Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

Flash point: N/A

Autoignition temperature: N/A

Explosion limits: Lower: N/A

Upper: N/A



0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

## Section 6 Accidental Release Measures

Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal.  
Wash spill area with soap and water.

## Section 7 Handling and Storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision.

**Handling:** Use with adequate ventilation. Do not inhale dust. Wash hands thoroughly after handling.

**Storage:** Store in closed container in a dry area. Avoid moisture.

## Section 8 Exposure Controls/ Personal Protection

**Engineering controls:** Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limits outlined in section 3. Wear chemical splash goggles, chemical-resistant gloves, and chemical resistant apron.

**Respiratory protection:** Non should be needed if normal laboratory handling at room temperature. Use NIOSH approved respiratory protection under dusty conditions.

## Section 9 Physical and Chemical Properties

Physical state: Solid	Boiling point: 4046°F/2230°C
Appearance: Red-pink crystals or granules.	Melting point: 3110°F/1710°C
Odor: No odor	Freezing point: N/A
pH: 6-8	Decomposition temp: N/A
Vapor Pressure ( mm Hg): N/A	Solubility: Insoluble
Vapor Density: N/A	Specific gravity (H <sub>2</sub> O = 1): 2.65g/cc
Evaporation Rate: N/A	Percent volatile (%): N/A
Viscosity: N/A	Molecular formula: SiO <sub>2</sub>
	Molecular weight: 60.09

## Section 10 Stability and Reactivity

**Chemical Stability:** Stable  
**Conditions to Avoid:** N/A  
**Incompatibilities:** Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride and oxygen difluoride may cause fires.  
**Hazardous decomposition:** Silica will dissolve in hydrofluoric acid and produce the corrosive gas silicon tetrafluoride  
**Hazardous polymerization:** Will not occur.

## Section 11 Toxicological Information

**Effects of overexposure:** This product contains crystalline silica a naturally occurring component. Crystalline silica is a cancer suspect in humans from occupational sources and in manufacturing environments. Prolonged inhalation of the dust may cause coughing, sneezing and shortness of breath. Pre existing respiratory conditions may be affected by dust.

ORL-RAT LD<sub>50</sub>: not available

HL-RAT LD<sub>50</sub>: not available

SKN-RABIT LD<sub>50</sub>: not available

## Section 12 Ecological Information

There is no reported Ecological toxicity for silica, a naturally occurring substance abundantly present in nature.

## Section 13 Disposal Considerations

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

## Section 14 Transport Information

UN number: N/A  
Shipping name: not regulated  
Hazard Class: N/A  
Packing group: N/A  
Exceptions: N/A

## Section 15 Regulatory Information

TSCA-listed, EINECS-listed (238-878-4)

## Section 16 Other Information

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