

# Material Safety Data Sheet

## I. PRODUCTION IDENTIFICATION

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**Trade Name as Labeled:** MILLED SAND – All Sizes

**Chemical Name and Formula:** Silica, in the form of quartz; SiO<sub>2</sub>

## II. HAZARDOUS INGREDIENTS

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**Chemical Name:** Quartz

**OSHA-PEL:**  $10\text{mg}/\text{m}^3$  respirable fraction or  
**Percent:** >90 %SiO<sub>2</sub> +2  
particles 325 MESH < 8

Milled sand exists in several forms, the most common of which is quartz..

## III. HAZARD IDENTIFICATION

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**Emergency Overview:** It is not flammable, combustible, or explosive. It does not cause burns or severe skin or eye irritation. A single exposure will not result in serious adverse health effects. It is not known to be an environmental hazard. And incompatible with hydrofluoric acid, fluorine, chlorine trifluoride or oxygen difluoride.

## IV. FIRST AID MEASURES

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- For skin exposures, wash with soap and water. Seek medical advice if irritation persists.
- For eye exposure, flush with water and seek medical advice if irritation persists.
- For ingestion, seek immediate medical aid.
- For gross inhalation, remove person immediately to fresh air, give artificial respiration as needed, seek medical attention as needed.

## V. FIRE FIGHTING MEASURES

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Milled sand (quartz) is not flammable, combustible, or explosive.

## VI. ACCIDENTAL RELEASE MEASURES

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**Spill Response Procedures (including employee protection measures):** Clean up using approved, dustless methods (water or vacuum) to minimize generation of respirable silica particles.

**Waste Disposal:** Dispose of in a facility approved for silica (also see Section 13).

## VII. HANDLING AND STORAGE

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**Eye Protection (Type):** Safety Glasses

**Gloves (Specify Material):** Not normally required.

**Other Protective Clothing and Equipment:** Not normally required.

**Work Practices, Hygiene Practices:** Clean up spills promptly. Do not engage in activities that will generate respirable silica particles.

**Other handling and Storage Requirements:** Avoid generating dust. There are no special storage requirements. Train all exposed persons in all sections of this MSDS and the proper handling of silica before they work with this product.

## VIII. EXPOSURE CONTROL/PERSONAL PROTECTION

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Any particulate respirator, except single-use or quarter-mask respirator.

Any fume respirator or high efficiency particulate filter respirator.

Any supplied-air respirator.

Any self-contained breathing apparatus.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

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**Vapor Density:** Not applicable

**Specific Gravity:** 2.65

**Solubility in Water:** Insoluble

**Vapor Pressure:** 10mm @ 1730°C

**Melting Point:** 1710°C

**Boiling Point:** 2230°C

**Evaporation Rate:** None

**Appearance and Color:** White to tan; odorless

## X. STABILITY AND REACTIVITY

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**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Incompatibility (materials to avoid):** Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride.

**Hazardous Decomposition Products:** Silica will dissolve in hydrofluoric acid and produce a corrosive gas (silicon tetrafluoride).

## XI. TOXICOLOGICAL INFORMATION

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**Silicosis:** The major concern is silicosis, caused by inhalation and retention of respirable crystalline silica dust. Silicosis can exist in several forms, chronic (or ordinary), accelerated, or acute. It is the most common form of silicosis, and can occur after many years of exposure to relatively low levels of airborne respirable dust.

**Autoimmune Diseases:** There is evidence that exposure to respirable silica (without silicosis) or that the disease silicosis is associated with the increased incidence of several autoimmune disorders, --scleroderma, systemic lupus erythematosus, rheumatoid arthritis.

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## XII. ECOLOGICAL INFORMATION

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Milled sand silica (quartz) is not known to be ecotoxic; i.e., there is no data that suggests that silica (quartz) is toxic to birds, fish, invertebrates, microorganisms or plants. For additional information on silica (quartz), see Sections 9 (physical and chemical properties) and 10 (stability and reactivity) of this MSDS.

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## XIII. DISPOSAL CONSIDERATIONS

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**General:** The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust.

**RCRA:** silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations,

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## XIV. TRANSPORT INFORMATION

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Milled sand silica (quartz) is not a hazardous material for purposes of transportation.

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## XV. REGULATORY INFORMATION

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National, state, provincial or local emergency planning, community right-to-know or other laws, regulations or ordinances may be applicable—consult applicable national, state, provincial, or local laws.

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## XVI. OTHER INFORMATION

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**H.M.I.S. Rating:**

Health Hazard Rating	1*	Flammability Hazard Rating	0
Reactivity Hazard Rating	0	Personal Protective Equipment	E**

**DOT:** Not Regulated

**SARA Title III:** Not listed.

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## XVII. ACRONYM LIST

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**CAS:** Chemical Abstract System

**NIOSH:** National Institute of Occupational Safety and Health

**NTP:** National Toxicology Program

**MSHA:** Mine Safety Health Administration

**TWA:** Time Weighted Average

**STEL:** Short Term Exposure Limit

**RCRA:** Resource Conservation and Recovery Act

**FDA:** Food and Drug Administration

**WHMIS:** Workplace Hazardous Materials Information System

**HMIS:** Hazardous Materials Information System

**DOT:** Department of Transportation