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MATERIAL SAFETY DATA SHEET

MSDS No.: SS0090
Revision Date: December 2, 2008
Approved by: James A. Bertsch

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Section 1 Chemical Product and Company Information

Product	**SAND, FINE WHITE (OTTOWA)**
Synonyms	Silicon Dioxide; Quartz; Crystalline Silica

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Hazards Identification

Emergency Overview

CAUTION!
PROLONGED INHALATION MAY CAUSE IRRITATION.
Use in keeping with good laboratory practices. Wash thoroughly after handling.
Target organs: Lungs.

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

Health	1
Fire	0
Reactivity	0
Contact	0

HMIS *

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units
Sand	14808-60-7	>99%	TWA: 0.1 mg/m^3 (respirable dust) crystalline quartz (ACGIH 2001)

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: Sand will not burn or support fire.

Extinguishing Media: Use any media suitable for extinguishing supporting fire.
Flash Point: Non flammable.
Autoignition temperature: N/A
Explosion Limits: Lower: N/A **Upper:** N/A

NFPA

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

None listed.

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 & Storage — GENERAL STORAGE CODE GREEN

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. Keep out of reach of children.

Handling: Use with adequate ventilation. Do not inhale dusts. Wash thoroughly after handling.

Storage: Avoid contamination with other substances.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Personnel should wear safety glasses and appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Solid.
Appearance: White, yellow or tan crystals or granules.
Odor: No odor.
pH: N/A
Vapor pressure (mm Hg): N/A
Vapor Density (Air = 1): N/A
Evaporation rate (Butyl acetate = 1): N/A
Viscosity: N/A
Boiling point: 2230°C (4046°F)
Freezing / Melting point: 1610°C (3110°F)
Decomposition temperature: N/A
Solubility: Insoluble.
Specific gravity (H_2O = 1): 2.65
Percent volatile (%): N/A
Molecular formula: SiO_2
Molecular weight: 60.09

Section 10 Stability & Reactivity

Chemical stability: Stable
Conditions to avoid: N/A
Hazardous polymerization: Will not occur.

Incompatibilities with other materials: Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide and oxygen difluoride may cause fire.

Hazardous decomposition products: Will dissolve in hydrofluoric acid and produce silicon tetrafluoride, a corrosive gas.

Section 11 Toxicological Information

Effects of overexposure: This product contains crystalline silica (suspect cancer hazard), which is considered a hazard by inhalation. May aggravate pre-existing upper respiratory and lung diseases such as bronchitis, emphysema, asthma, etc. May cause irritation of the eyes, throat and nose. Prolonged inhalation of the dust may cause scarring of the lungs, with cough and shortness of breath. A delayed lung injury, silicosis, may result from breathing free silica. Silicosis is a form of disabling, progressive and sometimes fatal pulmonary fibrosis characterized by the presence of typical modulation in the lungs.

ORL-RAT LD50: N/A
IHL-RAT LC50: N/A
SKN-RBT LD50: N/A

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: N/A
Shipping name: **Not Regulated.**
Hazard class: N/A
Packing group: N/A
Exceptions: N/A

Section 15 Regulatory Information

EINECS-listed (238-878-4)

Section 16 Additional Information