

Material Safety Data Sheet

Section 1 - Product Identification and Use

SILICA SAND Product Identifier:

Various sizes, including silica flour, play sand, traction sand

Description: Odourless, granular sand

Product Use: Water filtration & treatment, sand blasting abrasive

Supplier's Name: Manufacturer's Name:

Unimin Corporation AWI (Anthratech Western Inc.)

258 Elm Street 4450-46 Avenue, SE New Canaan, CT 06840 Calgary, Alberta T2B 3N7

Emergency Phone: [203] 966-8880 Emergency Phone: [403] 255-7377

Section 2 - Hazardous Ingredients

Crystalline Silica in the form of Quartz

87-99.9% C.A.S. Number: 14808-60-7 LD50: N/A **EINECS Number:** 238-878-4 EU Classification:

Section 3 - Physical Data

Physical State: Solid Odour & Appearance: Odourless, granular sand, white powder

LC50: N/A

Xn R48/20

Odour Threshold: N/A Specific Gravity: 2.65 (Approximate)

Vapour Pressure: N/A Vapour Density: N/A **Boiling Point:** 2230 °C Evaporation Rate: N/A Freezing Point: N/A N/A pH: 1610 °C Coefficient of Water/Oil Distribution: N/A Melting Point:

Section 4 - Fire and Explosion Data

Conditions of Flammability: Means of Extinghuishing: N/A Flash Point: Fully oxidized, will not burn Upper Flammable Limit: N/A Lower Flammable Limit: N/A Auto-Ignition Temperature: N/A Explosion Data (Mechanical Impact): N/A Explosion Data (Static Impact): N/A

^{*} Silica Sand is manufactured by Unimin Corporation and is distributed by AWI.

Section 5 - Reactivity Data

Conditions under which the product is chemically unstable: N/A

Substance or class of substance with which the product is incompatible: Strong oxidizers (ex. Fluorine)

Conditions of reactivity:

Hazardous decomposition products:

Will dissolve in hydrofluoric acid producing a

corrosive gas, silicon tetrafluoride.

Section 6 - Toxicological Properties

Skin Contact: No effect initially but prolonged contact may cause irritation of the skin and mucous membranes.

Skin Absorption: No effect

Eye Contact: No long-term effect other than dust discomfort

Ingestion: No effect

Inhalation Acute Exposure: No immediate effect

Chronic Exposure: Respiratory diseases may develop such as silicosis, pneumoconiosis, pulmonary fibrosis which

can increase the risk of Tuberculosis. Is a known carcinogen. Can cause scarring of the skin and

internal organs (Leroderma).

* Can aggravate individuals with lung diseases such as Bronchitis, Emphysema or Chronic

Obstructive Pulmonary Disease.

Exposure Limits: OSHA Permissible Exposure Limit for Crystalline Silica, Quartz 10mg/m3

(Respirable measured as an 8-hour Time Weighted Average) % Silica + 2

TLV-0.025 mg/m3 8-hour TWA (respirable fraction)

ACGIH ILV: Crystalline Quartz

TLV-TWA = 0.05 mg/cubic M (respirable dust) See threshold limit value and biological exposure indices for 1987-1988 American Conference of Governmental Industrial Hygienists, be changed to 50 micrograms respirable free silica per cubic meter of air (50 ug/cubic M) averaged over a work shift of up to 10 hours per day, 40 hours per week. The NIOSH Criteria document of Crystalline Silica should be consulted for more detailed information.

Acute Toxicity Values: Silica – LD50 oral rat>22,500 mg/kg.

Section 7 - Preventative Measures

Use local exhaust to control dust dispersion. For respiratory protection, use an air-supplied respirator or other conventional particulate respiratory protection based on considerations of airborne concentrations and duration of exposure. For more information contact the following standards:

- 1) American National Standard Institute (ANSI Z.88.2)
- 2) Occupational Safety and Health Administration (OSHA -29CFR Part 1910.134)
- 3) Mine Safety and Health Administration (MSHA 30CFR Part 56 and 57)
- 4) NIOSH Respirator Decision Logic

Protective gloves and safety glasses should be worn to prevent dust in eyes.

Waste Disposal: In case of spill; vacuum spillage and dispose of waste in containers or slurry to avoid re-dispersion.

Storage Requirement: None

Special Shipping Information: None

Accidental Release: Wear appropriate equipment. If uncontaminated, collect using a dustless

Section 8 - First Aid Measures

Eye Contact: Flush eyes immediately with large amounts of running water, lifting the upper and lower eyelids

occasionally. If irritation persists contact a physician.

Inhalation: Remove from contaminated area. If shortness of breath or other breathing problems persist, consult a

physician.

Ingestion: If large amounts are swallowed, get immediate attention.

Skin Contact: A water wash will remove particles. Wash skin with soap and water before breaks and at the end of a shift.

Section 9 - Preparation & Date of MSDS

Prepared by: Craig Morris (Safety Officer)

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Telephone Number: [403] 255-7377 Date Prepared: January 14, 2013

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change, and conditions of handling, use or misuse of this product are beyond our control. Users should satisfy themselves that they are aware of all of the current data relevant to their particular use.