

MATERIAL SAFETY DATA SHEET

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SECTION I

PRODUCT NAME: SILICA COKE OVEN CEMENT

PRODUCT TYPE: Heat Set Mortar

Canadian WHMIS Classification: D,2

NFPA Rating: 1-0-0

Chemical Family: SiO₂ = <95% Al₂O₃ = <3.0%
Fe₂O₃ = <Na NaKO = <0.5%
FORMULA: NotApplicable

* Per: NTP, IARC or OSHA lists. **On Phase Basis. ***Total Basis

SECTION II PRODUCT HAZARDOUS INGREDIENTS

<u>CHEMICAL</u>	<u>TLV-TWA</u>	<u>CAS#</u>
Quartz (SiO ₂) (<95%)	0.1 mg/m ³ * Respirable Dust	14808-60-7

* Source: American Conference of Governmental Industrial Hygienists, 1996.

SECTION III HAZARDS INFORMATION

This product contains crystalline silica. Prolonged exposure to dust may cause silicosis, a progressive pneumoconiosis, or other respiratory diseases. The International Agency for research on Cancer (IARC) has classified crystalline silica as Group 1. The agency states there is sufficient evidence of carcinogenicity in humans. Reference: IARC Monograph 68.

Dust from product at any stage of its use or during tear-out after service may, especially on long exposure, lead to lung disease unless respiratory protection is employed. NIOSH approved respirators should be worn any time that refractories are torn out after service. While a respiratory hazard and/or nuisance dust may exist from the product itself, other foreign substances may warrant additional precautions during tearout and disposal.

SECTION IV **FIRST AID MEASURES**

EFFECT OF OVEREXPOSURE:

<u>EYES:</u>	ACUTE: Dust can cause mechanical irritation. Sodium Silicate can cause eye injury or irritation.
	CHRONIC: None Known
<u>SKIN:</u>	ACUTE: Can cause cuts or abrasions.
	CHRONIC: None Known
<u>INHALATION:</u>	ACUTE: Dust, if present, may cause upper respiratory irritation.
	CHRONIC: Long –term exposure to dust may cause lung damage.
<u>INGESTION:</u>	ACUTE: Unknown
	CHRONIC: Unknown

FIRST AID MEASURES:

<u>EYES:</u>	Flush with clean water for 15 minutes. If irritation occurs, consult physician.
<u>SKIN:</u>	Wash with soap and water. Seek medical attention.
<u>INHALATION:</u>	Remove to fresh air. Seek medical attention.
<u>INGESTION:</u>	Contact physician immediately. Do not induce vomiting unless instructed to do so by physician. Product is non-toxic as supplied, but its abrasive nature could damage internal organs.

SECTION V
FIRE FIGHTING MEASURES

<u>FLAMMABLE PROPERTIES:</u>	None
<u>EXTINGUISHING MEDIA:</u>	Not combustible
<u>FIRE FIGHTING INSTRUCTIONS:</u>	No special instructions
<u>UNUSUAL FIRE & EXPLOSION HAZARDS:</u>	None

SECTION VI
ACCIDENTAL RELEASE MEASURES

SMALL/LARGE SPILL: Sweep, shovel up, or pick up and place in a container for disposal. Pre-dampening reduces tendency to dust.

SECTION VII
HANDLING AND STORAGE

Store in a dry place. Product is non-flammable.

SECTION VIII
EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General mechanical ventilation is usually adequate (SECTION II).

RESPIRATORY PROTECTION: Use a NIOSH approved respirator when working around dried material and when removing this product after service.

EYE PROTECTION: Goggles or safety glasses with side shields should be worn.

SKIN PROTECTION:

Rubber gloves and long-sleeved and long-legged clothing should be worn to prevent skin contact.

OTHER:

Safety shoes should be worn to prevent foot injury from accidentally dropped containers of mortar.

SECTION IX
PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light Tan Powder
SPECIFIC GRAVITY: 2.5 to 2.7
BOILING POINT: NA
EVAPORATION RATE: NI
SOLUBILITY IN ALCOHOL: NI
PERCENT VOLATILE BY VOL: NI

ODOR: None
MELTING POINT: >1640° C
VAPOR PRESSURE: NI
SOLUBILITY IN WATER: <1%
OTHER SOLVENTS: NI
VAPOR DENSITY: NA

SECTION X
STABILITY AND REACTIVITY

Product is stable under normal conditions of use, storage, and transportation.

Product can react with concentrated acids.

SECTION XI
TOXICOLOGICAL INFORMATION

LD₅₀ or L₅₀ for oral, dermal, or inhalation routes of administration: no data for product.

SECTION XII
ECOLOGICAL INFORMATION

Ecotoxicological/chemical fate information: not available.

SECTION XII
DISPOSAL CONSIDERATIONS

As supplied, product may be disposed of in an approved landfill, in accordance with federal, state, and local regulations.

Supplier can make no statement concerning disposal of *used* product, since product may become contaminated by hazardous materials during use.

SECTION XIV
TRANSPORT INFORMATION

U.S.A. DOT: Not Regulated
Canadian TDG Hazard Class & PIN: Not Regulated

SECTION XV
REGULATORY INFORMATION

TSCA Status: All Components Listed
Canadian DSL: All Components Listed
SARA Title III, Section 313: This MSDS provides the toxic chemical “**SUPPLIER INFORMATION**” required under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372. Toxic chemical information, *if applicable to the product(s) named*, is located in **Section II – HAZARDOUS INGREDIENTS** section of the MSDS. This information is subject to the toxic chemical reporting requirements of Section 313 and must be included in all MSDS’s that are copied and distributed for this product.

SECTION XVI
OTHER INFORMATION

MSDS Status: MSDS Dated 03/06/06 (replaces 06/21/85)

Note: This material safety data sheet contains confidential proprietary information and is not to be disclosed to the general public or to competition except as required by law. The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with Utah Refractories Corp. LLC or not. This information is offered solely for use in your evaluation of this product in respect to safety, health, and environmental hazards.

NA = Not Applicable NI = No Information or Test Data NE = Not Established