

SAFETY DATA SHEET

PRODUCT: CPD STOVE AND FURNACE REFRACTORY CEMENT



SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER: CPD Construction Products
 219 Connie Crescent, Unit #13
 Concord, Ontario Canada L4K 1L4

24 HOUR EMERGENCY NUMBER: CANUTEC: (613) 996-6666

APPLICATION AND USE: For bonding fire brick and lining interiors of stoves, fireplaces and high temperature furnaces and ovens. Can be applied by dipping, brush and trowel.

PRODUCT DESCRIPTION: Silica filled sodium silicate based cement.

Special Note: This product is sold at the retail level as well as at the commercial wholesale level. The particular product packaging that is sold at the RETAIL level (3.0 Kg. and 6.0 Kg. containers) is not regulated under WHMIS legislation. This type of packaging is regulated under the Consumers Products Act. The larger packaging that is sold at the COMMERCIAL level (25.0 Kg. containers) is regulated under WHMIS legislation.

SECTION 02: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:

EYE CONTACT: May irritate or burn eyes. No permanent damage.

SKIN CONTACT: Frequent or prolonged contact may irritate the skin. May cause defatting dermatitis with excessive exposure.

INHALATION (ACUTE): This product as supplied represents very little hazard through inhalation because it is an aqueous paste. However, when dry it may generate crystalline silica dust.

INGESTION: Will irritate throat and cause stomach pain.

EFFECTS OF CHRONIC EXPOSURE Excessive exposure through inhalation could lead to development of the irreversible lung disease "SILICOSIS".

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	Exposure Limit (TWA)	C.A.S.#	LD/50, Route, Species	LC/50 Route, Species
**Silica Sand (Quartz)	87-89	0.2mg/m ³ of air	14808-60-7	Not available	Not Available

**The Silica sand used in this product contains crystalline silica quartz. The quartz that exists as dust particles with an aerodynamic diameter less than 5 microns is hazardous. Although the possibility of inhalation of silica in this product is extremely low and approved dust mask (for crystalline silica) should be worn by workers when handling this product.

SECTION 04: FIRST AID MEASURES

EYE CONTACT Flush eyes with water for at least 15 minutes holding eyelids open. If irritation persists see physician.

SKIN CONTACT Flush with water. Use soap if available. If irritation persists see physician.

INHALATION Remove to fresh air.

INGESTION DO NOT INDUCE VOMITING! Seek immediate medical attention.

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SECTION 05: FIRE FIGHTING MEASURES

FLASH POINT	Not applicable
AUTO IGNITION TEMPERATURE (deg C)	Not applicable
UPPER FLAMMABLE LIMIT (% VOL)	None
LOWER FLAMMABLE LIMIT (% VOL)	None
GENERAL HAZARDS:	Non-combustible material. Will not burn.
SPECIAL FIRE FIGHTING PROCEDURES.....	Not applicable
HAZARDOUS COMBUSTION PRODUCTS	None

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL:	Spilled product will remain in a mass and will not flow due to its highly thixotropic consistency. Recover product for reuse. Flush remaining product with water to disperse.
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SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES	Keep containers closed when not being used. Product will dry out rapidly when exposed to air.
STORAGE NEEDS	Store under normal warehouse conditions. DO NOT ALLOW PRODUCT TO FREEZE.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:	
EYE / TYPE	Where prolonged and/or repeated skin and eye contact is likely to occur wear safety glasses with side shields.
RESPIRATORY PROTECTION:	If dusting of the dry product is encountered and approved dust mask for crystalline silica must be worn by workmen.
GLOVES/TYPE	PVC or neoprene full length gloves.
CLOTHING/TYPE	Use full work coveralls as the minimum protection.
OTHER/TYPE	Good hygiene habits should be exercised by workers to minimize accidental ingestion of silica.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid (Thixotropic Paste)
VAPOUR PRESSURE (mmHg @ 20°C (68°F))	Not applicable
VISCOSITY (CPS @ 20°C (68°F)).....	Not applicable
VAPOUR DENSITY (AIR=1).....	>1.0
SPECIFIC GRAVITY @20°C (68°F).....	2.2Kg./L.
BOILING POINT	>100°C (212°F)
FREEZING POINT	<0°C (32°F)
SOLUBILITY IN WATER	<12.0%
APPEARANCE.....	Off-White Paste
ODOUR	None
pH LEVEL	11.0 @ 20°C (68°F)
% VOLATILE	<8%
EVAPORATION RATE (N-BuAc=1).....	Not applicable

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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY CONDITIONS	Product is stable, hazardous polymerization will not occur. Keep from freezing.
INCOMPATIBILITY	None
HAZARDOUS PRODUCTS OF DECOMPOSITION	None

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY (LD50)	See Page 1, Section 3
IRRITANCY OF MATERIAL	May cause irritation
SENSITIZING CAPABILITY OF MATERIAL ...	Not available
CARCINOGENICITY OF MATERIAL	Crystalline silica is classified by IARC as "2A-Probably Carcinogenic to humans."
TERATOGENICITY	Not available.
MUTAGENICITY	Not available.
REPRODUCTIVE EFFECTS	Not available.

SECTION 12: ECOLOGICAL INFORMATION

FISH TOXICITY (1)	Not available.
BIODEGRADABILITY	Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Spilled material and water rinses waste must be disposed of in accordance with current, local, provincial and federal regulations.
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SECTION 14: TRANSPORTATION INFORMATION

TDG CLASSIFICATION	Not regulated.
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SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION	Class D Division 2 Subdivision A (Quartz)
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SECTION 16: OTHER INFORMATION

ACGIH	American Confederation of Governmental Industrial Hygienists
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
STEL	Short Term Exposure Limit
TWA	Time-Weighted Average
OSHA	Occupational Safety and Health Administration
N/A	Not available

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PREPARATION DATE:	September 27 th , 2016

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