

Safety Data Sheet

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SECTION 4: FIRST AID MEASURES

General In case of accident or illness, seek medical attention immediately.

Eye Contact Flush eyes and contaminated skin with abundant water. Seek medical attention immediately.

Skin Contact Remove contaminated clothing immediately. Wash skin immediately with soap and abundant water.

Inhalation If breathing is irregular or stopped, administer artificial respiration. Move to a well ventilated area. Seek medical attention immediately.

If Ingested Severely irritating. Do not induce vomiting. Drink lots of water or milk to dilute. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media	Water spray, carbon dioxide, dry chemical or foam
Unsuitable Extinguishing Media	None in particular
Hazardous Combustion Products	Do not inhale explosion and combustion gases
Explosive Properties	N/A
Oxidizing Properties	N/A
Special Firefighting Procedures	Wear standard fire fighting gear with self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Special Protection Exposure to spilled material may be irritating or harmful. Wear personal protective equipment.

Protective Equipment Refer to Section 8 on this Safety Data Sheet for appropriate personal protection equipment.

Pick up solids and avoid dust accumulation. Use an appropriate scoop to remove large amounts of material while smaller quantities may be swept up. Avoid the use of water as material becomes alkaline when wet.

Waste Disposal Dispose of in accordance with local, state and federal regulations.

Environmental Precautions Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system. Refer to Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Wear personal protective equipment. Avoid contact with skin and eyes, inhalation of vapours and mists.

Contaminated clothing should be changed before entering eating areas. Do not eat or drink in work areas.

Do not use any empty containers before they are cleaned.

Protective Equipment Refer to Section 8 on this Safety Data Sheet for appropriate personal protection equipment.

Wash thoroughly after handling.

Storage Store in a cool, adequately ventilated, dry area. Keep containers tightly closed when not in use

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	CAS No.	ACGIH TLV	OSHA PEL
Silica Sand, Crystalline Quartz	14808-60-7	0.025 mg/m ³ TWA (respirable fraction)	10 mg/m ³ TWA (respirable)
Portland Cement	65997-15-1	10 mg/m ³ TWA (respirable, containing no asbestos and <1% crystalline silica)	15 mg/m ³ TWA (total dust), 5 mg/m ³ TWA (respirable)
Calcium Carbonate	1317-65-3	10 mg/m ³ TWA	15 mg/m ³ TWA (respirable)

ENGINEERING CONTROL METHODS:

Ventilation Use local exhaust ventilation or other engineering controls to minimize exposures.

Eye Protection: Wear safety glasses with side shields or face shield when handling this product. Have an eye wash station available.

Skin protection Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt.

Hand Protection Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory Protection Use approved (OSHA) dust respirator rated n95 when mixing .

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Odour and appearance	Odourless White/Grey powder
Odour threshold	N/A
Specific gravity	1.2 – 1.6
Boiling point	N/A
Freezing point	N/A
pH	11 when wet
Flash point	N/A
Upper/Lower flammability or explosive limits	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Explosive properties	N/A
Oxidizing properties	N/A
Solubility in water	Dispersable
Solubility in oil	N/D
Octanol/Water coefficient	N/D
Calculated VOC content	0 g/l

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SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Stable
Incompatible materials	Strong oxidizing agents, strong acids, strong bases
Conditions to avoid	Keep dry until used
Hazardous decomposition products	CO, CO ₂ , NO _x , and other unidentified organic compounds

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information based on the individual components.

Chemical Name	CAS No.	LD50/LC50
Silica Sand, Crystalline Quartz	14808-60-7	ORAL LD50 (rat) 500 mg/kg
Portland Cement	65997-15-1	N/Av
Calcium Carbonate	1317-65-3	Oral LD50 6450 mg/kg (rat)
Calcium Formate	544-17-2	Oral LD50 2650 mg/kg (rat)

Routes of entry skin contact, eye contact, ingestion, inhalation

Effects of acute exposure irritate the eyes and upper respiratory tract. Ingestion can cause throat irritation.

Effects of chronic exposure cement dust can cause inflammation of tissue lining the nasal interior and the eye cornea. Hypersensitive persons may develop allergic dermatitis.

Skin corrosion	In both dry and wet forms can dry skin and cause alkali burns
Serious eye damage / irritation	Can cause moderate irritation, tearing, and reddening
Respiratory or skin sensitization	May cause an allergic skin reaction, and respiratory irritation
Germ cell mutagenicity	No data available.
Carcinogenicity	This product contains crystalline silica. Crystalline silica (respirable size) is classified as carcinogenic by inhalation by: IARC (Group 1), ACGIH (Group A2), NTP (Group 1), OSHA (Select carcinogen). Cement is not listed as a carcinogen by IARC or NTP; however, cement contains trace amounts of crystalline silica and hexavalent chromium which are classified by IARC and NTP as known human carcinogens.
Reproductive toxicity	No data available
STOT-single exposure	May cause respiratory irritation
STOT-repeated exposure	May cause lung damage upon repeated or prolonged exposure
Aspiration hazard	repeated inhalation of dust may result in silicosis

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	N/A
Persistence and degradability	N/A

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Bioaccumulative potential	N/A
Mobility in soil	N/A
Other adverse effects	N/A
List of components with eco-toxological properties	
Silica sand	LC50 Aquatic acute toxicity carp >10,000 mg/l 72 h

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for disposal Handle waste as per recommendations in Section 7.

Dispose of in an approved landfill. Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.

Canadian TDG : not regulated

US DOT: not regulated

IATA: not regulated

SECTION 15: REGULATORY INFORMATION

Canadian Information:

Canadian WHMIS Classification: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL). It contains components listed on the Canadian HPA Ingredient Disclosure List. It contains Crystalline silica, quartz.

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above the minimum concentrations.

U.S. State Right To Know Laws

California Proposition 65: Warning! This product contains a chemical known to the State of California to cause cancer. It contains Crystalline silica, quartz.

Other State Right to Know Law:

MA	Portland Cement, Crystalline Silica, Quartz, Limestone
NJ	Portland Cement, Crystalline Silica, Quartz, Limestone
PA	Portland Cement, Crystalline Silica, Quartz, Limestone
RI	Portland Cement, Crystalline Silica, Quartz, Limestone
MN	Portland Cement, Crystalline Silica, Quartz, Limestone

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SECTION 16: OTHER INFORMATION

This Safety Data Sheet is prepared to comply with the Canadian Workplace Hazardous Materials Information System (WHMIS) and the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

HMIS rating: Health -- 2 Flammability -- 1 Reactivity -- 0

See **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION** for personal protective equipment recommendations.

PREPARATION DATE OF SAFETY DATA SHEET

Prepared by Technical department

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Date prepared 7th August, 2015

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