

MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE : June 20, 2006

WHMIS CLASSIFICATION : D2A, E

I. IDENTIFICATION

Product Name: **Polymeric Sands
for Paver Joints**

Shipping: Land and Sea

Not regulated

II. PHYSICAL DATA

Appearance : Sand-coloured granular material
Specific Gravity : 2.6 - 3.1 g/cm³
pH : (10% aqueous solution), alkali reserve <10
RG: 10.82
HP: 11.08
Bulk Density : 1,900 - 2,100 kg/m³
Storage : > 15°C (60°F)

III. HAZARDOUS INGREDIENTS

Material	CAS No.	% by weight	Hazards
Sand (quartz)	14808-60-7	85 - 95	Toxic
Portland Cement	65997-15-1	< 5	Corrosive
Non-Hazardous Polymer	Proprietary	2 - 7	-

IV. HEALTH HAZARD DATA

Skin contact:	Irritating. Contact with dry product may cause dryness of the skin. Contact with wet product or presence of product on skin damp with sweat will cause irritation and possible burn. Repeated contact may result in allergic reaction in some individuals.
Eye contact:	May cause irritation. Dust may cause physical (mechanical) eye injury.
Inhalation:	May cause irritation of the nose, throat and upper respiratory tract.
Ingestion:	May cause irritation of the mouth and gastrointestinal tract.

EFFECTS OF CHRONIC EXPOSURE: (No acute toxicity data is available for this product at this time.)

Chronic overexposure to respirable crystalline silica may cause a progressive, disabling lung disease, silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop respiratory infections. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of other diseases such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs), rheumatoid arthritis, systemic lupus erythematosus, sarcoidosis, chronic bronchitis, chronic obstructive pulmonary disease (COPD), emphysema, chronic kidney disease and end-stage renal disease. The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz from occupational sources is carcinogenic to humans (Group 1). The National Toxicology Program classifies respirable crystalline silica as known to be a human carcinogen. The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

EMERGENCY AND FIRST AID PROCEDURES:

Skin contact:	Remove contaminated clothing and wash immediately with plenty of soap and water. Get medical attention if irritation or other symptoms develop. Launder contaminated clothing before reuse.
Eye contact:	Rinse immediately with plenty of water for 15 minutes, while lifting the eyelids. Get immediate medical attention.
Inhalation:	Remove affected person from source of exposure. If symptoms of exposure persist, get medical attention.
Ingestion:	Wash mouth with water. Do not induce vomiting. Seek medical attention.

V. EXPOSURE LIMITS AND TOXICOLOGICAL DATA

Material	OSHA PEL-TWA (mg/m ³)	ACGIH TLV-TWA (mg/m ³)
Sand (quartz / crystalline silica)	10 (respirable dust)	0.05 (respirable dust)
Portland Cement	5 (respirable dust) 15 (total dust)	10 (total dust)

VI. FIRE AND EXPLOSION HAZARD DATA

This product is non-flammable and does not cause dust explosions.

VII. REACTIVITY DATA

Stability:	UNSTABLE	STABLE X
Incompatibility:	Strong acids, ammonium salts and aluminum metal.	
Conditions to avoid:	Avoid contact with water and moisture until use.	
Hazardous decomposition products:	None.	

VIII. SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled:

Wear appropriate protective clothing to avoid eye and skin contact including impervious gloves, safety goggles and respirator if needed. Carefully collect material. Avoid creating airborne dust. Place into an appropriate container for re-use or disposal. Report spills and releases as required to appropriate authorities.

IX. SPECIAL PROTECTION INFORMATION

General Recommendations:	Keep exposure to dust as low as practical. If inspirable dust levels are kept below 2 mg/m ³ , health problems such as skin, eye and respiratory irritation may be minimised. Respirable crystalline silica (quartz) exposure levels should be kept below 0.1 mg/m ³ . Avoid repeated skin contact with Polymeric Sand.
Respiratory protection:	If needed, a NIOSH-approved respirator with dust cartridges (N95/P95 or N100/P100) may be used. For higher exposures, a supplied-air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2, CSA Standard Z94.4-02 and good Industrial Hygiene practice.
Eye protection:	Dust-resistant safety goggles should be worn if dust is likely to be generated.
Skin protection:	Avoid skin contact. Wear impervious gloves if needed to avoid contact.
Ventilation:	Use with adequate general or local exhaust ventilation to maintain exposures as far as possible below applicable occupational exposure limits.

X. SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:	<p>Do not breathe dust. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product dry until use. Store in a cool, dry area.</p> <p>Empty containers may contain product residue and may be hazardous. Follow all MSDS precautions in handling empty containers.</p>
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XI. ENVIRONMENTAL PROTECTION

	The ecological effects of this product have not been determined.
Waste disposal procedure:	Disposal of this product and its container must comply with all applicable federal, state, provincial and local regulations.

XII. REGULATORY INFORMATION

SARA TITLE III INFORMATION:

Section 311/312 (40 CFR 370) Hazard Categories: Acute Health, Chronic Health

Section 313 (40 CFR 372): This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirement: None

Section 302 (40 CFR 355): This product does not contain chemicals listed as extremely hazardous chemicals under SUPERFUND Amendments and Reauthorization Act (SARA).

CERCLA 103 Reportable Quantity: None

EPA TSCA: All of the components of this product are listed on the EPA TSCA Inventory.

California Proposition 65: This product may contain small amounts of chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Canadian Environmental Protection Act: All the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

Canadian WHMIS Classification: Class D, Division 2, Subdivision A (Very Toxic Material causing other Toxic Effects)