MATERIAL SAFETY DATA SHEET

Prepared in accordance with OSHA1910.1200 and ANSI Z400.1 and Canadian WHMIS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **RG and HP Polymeric Sands for Pavement Joints**

MANUFACTURER: **Techni-Seal Inc.**
ADDRESS: 1470, De Coulomb
Boucherville (Quebec)
Canada J4B 7K2

Phone: 1-800-465-7325 (North America) 514-523-8324 (International)
Website: www.techniseal.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Conc in %
Sand (crystalline silica, quartz)	14808-60-7	85-95
Portland Cement	65997-15-1	<5%
Non-Hazardous Polymer	Proprietary	2-7%

See Section 8 for Exposure Limits

3. HAZARDS IDENTIFICATION

Sand colored granular material.

EMERGENCY OVERVIEW

Caution! May irritate eyes and skin. Inhalation of dust may cause irritation of the nose, throat and respiratory tract. Repeated skin contact may result in allergic dermatitis. Prolonged inhalation of respirable crystalline silica (quartz) may cause a disabling lung disease, silicosis, and lung cancer.
See Section 11 for detailed information

4. FIRST AID MEASURES

INGESTION: Wash mouth with water. Do not induce vomiting. Seek medical attention.
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.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable
AUTOIGNITION TEMPERATURE: Not applicable
FLAMMABILE LIMITS IN AIR (% BY VOL.) LOWER: Not applicable UPPER: Not applicable

BASIC FIREFIGHTING PROCEDURES: This product is not combustible. Use any extinguishing media that is appropriate for the surrounding fire. Firefighters should always wear positive pressure self-contained breathing apparatus and protective clothing when fighting fires involving chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

6. ACCIDENTAL RELEASE MEASURES

Spill: 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.

7. HANDLING AND STORAGE

HANDLING: Do not breathe dust. Avoid contact with the eyes, skin and clothing. Wear appropriate protective clothing and equipment handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product dry until use.

STORAGE: Store in cool, dry area.

EMPTY CONTAINERS: Empty containers may contain product residue and may be hazardous. Follow all MSDS precautions in handling empty containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

EXPOSURE LIMITS

Chemical Name	Exposure Limits
Sand (crystalline silica, quartz)	0.05mg/m^3 ACGIH TLV-TWA (respirable dust) $\frac{10\ mg/m^3}{\%SiO_2 + 2}$ OSHA PEL-TWA (respirable dust)
Portland Cement	10 mg/m^3 ACGIH TLV-TWA (total dust) 5mg/m^3 OSHA PEL-TWA (respirable dust) 15mg/m^3 OSHA PEL-TWA (total dust)

ENGINEERING CONTROLS: Use with adequate general or local exhaust ventilation to maintain exposures as far as possible below applicable occupational exposure limits.

EYE PROTECTION: Safety glasses or goggles recommended.

SKIN PROTECTION: Avoid skin contact. Wear impervious gloves if needed to avoid contact.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Not applicable
SPECIFIC GRAVITY: 2.6-3.1 g/cm^3
MELTING POINT: Not determined
% VOLATILE: 0%
VAPOR PRESSURE: Not applicable
EVAPORATION RATE (BUTYL ACETATE = 1): Not applicable
VAPOR DENSITY (AIR = 1): Not applicable
SOLUBILITY IN WATER: Insoluble
OCTANOL/WATER PARTITION COEFFICIENT: Not determined
pH: HP Polymeric Sand: 11.08 (10% aqueous solution), alkali reserve <10
RG Polymeric Sand: 10.82 (10% aqueous solution), alkali reserve <10
APPEARANCE/ODOR: Sand colored granular material.

10. STABILITY AND REACTIVITY DATA

STABILITY: Stable under normal conditions of use and storage.

INCOMPATIBILITY: Strong acids, ammonium salts and aluminum metal.

CONDITIONS TO AVOID: Avoid contact with water and moisture until use.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

11. TOXICOLOGICAL INFORMATION

PRODUCT HEALTH HAZARD INFORMATION

SKIN: 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: 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.

CHRONIC HEATH EFFECTS: 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).

ACUTE TOXICITY VALUES
No toxicity data is available for this product at this time.

12. ECOLOGICAL INFORMATION

The ecological effects of this product have not been determined.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated
DOT HAZARD CLASS: NA
UN NUMBER: NA
DOT LABELS REQUIRED: None

IATA PROPER SHIPPING NAME: Not Regulated
IATA HAZARD CLASS: NA
UN NUMBER: NA
IATA LABELS REQUIRED: None

15. 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)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

REVISION DATE: 06/01/05 REPLACES SHEET DATED: New MSDS

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information. It is the responsibility of the user to determine the applicability of this information for his use.