



MATERIAL SAFETY DATA SHEET

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Revision Date: December 16, 2011
Approved by: Darius Nicpon

Section 1 Chemical Product and Company Name		
Product	GRAVEL	ITEM No: WH-1-10xx
Synonyms	Silicon dioxide; Quartz; Crystalline silica	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information			
Chemical Name	CAS#	%	TLV Units
Gravel (consists of mainly quartz)	14808-60-7	> 99%	TWA: 0.1mg/m ³ (respirable dust)

Section 3 Hazards Identification								
CAUTION! HIGH CONCENTRATION OF DUST MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE EYE IRRITATION. Target organs: Lungs	0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe							
	<table><tr><td>Health</td><td>1*</td></tr><tr><td>Flammability</td><td>0</td></tr><tr><td>Physical Hazard</td><td>0</td></tr><tr><td>Personal Protection</td><td>C</td></tr></table>	Health	1*	Flammability	0	Physical Hazard	0	Personal Protection
Health	1*							
Flammability	0							
Physical Hazard	0							
Personal Protection	C							
HMIS								

Section 4 First Aid Measures	
INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Get medical advise. INHALATION: Remove to fresh air. Get medical attention if necessary. EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops. SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water.	

Section 5 Fire Fighting Measures	
Gravel will not support fire.	
Extinguishing Media: Use any media suitable for extinguishing supporting fire. Flash point: N/A Autoignition temperature: N/A Explosion limits: Lower: N/A	Upper: N/A

Section 6 Accidental Release Measures	
Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.	

Section 7 Handling and Storage	
Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision.	
Handling: Use with adequate ventilation. Do not inhale dust. Wash hands thoroughly after handling.	
Storage: Store in closed container in a dry area. Avoid moisture.	

Section 8 Exposure Controls/ Personal Protection
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Engineering controls: Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limits outlined in section 3. Wear chemical splash goggles, chemical-resistant gloves, and chemical resistant apron.
Respiratory protection: Non should be needed if normal laboratory handling at room temperature. Use NIOSH approved respiratory protection under dusty conditions.

Section 9 Physical and Chemical Properties	
Physical state: Solid Appearance: White, tan or dark various sized pebbles. Odor: No odor pH: 6-8 Vapor Pressure (mm Hg): N/A Vapor Density: N/A Evaporation Rate: N/A Viscosity: N/A	Boiling point: 4046°F/2230°C Melting point: 3110°F/1710°C Freezing point: N/A Decomposition temp: N/A Solubility: Insoluble Specific gravity (H₂O = 1): 2.65g/cc Percent volatile (%): N/A Molecular formula: SiO ₂ Molecular weight: 60.09

Section 10 Stability and Reactivity
Chemical Stability: Stable Conditions to Avoid: N/A Incompatibilities: Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride and oxygen difluoride may cause fires. Hazardous decomposition: Silica will dissolve in hydrofluoric acid and produce the corrosive gas silicon tetrafluoride Hazardous polymerization: Will not occur.

Section 11 Toxicological Information

Effects of overexposure: This product contains crystalline silica a naturally occurring component. Crystalline silica is a cancer suspect in humans from occupational sources and in manufacturing environments. Prolonged inhalation of the dust may cause coughing, sneezing and shortness of breath. Pre existing respiratory conditions may be affected by dust.
ORL-RAT LD₅₀: not available
IHL-RAT LD₅₀: not available
SKN-RABIT LD₅₀: not available

Section 12 Ecological Information
There is no reported Ecological toxicity for silica, a naturally occurring substance abundantly present in nature.

Section 13 Disposal Considerations
Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

Section 14 Transport Information
UN number: N/A Shipping name: not regulated Hazard Class: N/A Packing group: N/A Exceptions: N/A

Section 15 Regulatory Information
TSCA-listed, EINECS-listed (238-878-4)

Section 16 Other Information
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