

SAFETY DATA SHEET

Rieth-Riley Construction Co., Inc.
 P.O. Box 477, Goshen, IN 46527-0477
 Phone (574) 875-5183; Fax (574) 875-8405;
 24-Hour Emergency No. CHEMTREC 1-800-262-8200



Prepared 11/13/2015

SECTION 1	IDENTIFICATION
Product Name:	Sand and Gravel
CAS No.:	None
Trade Name:	Natural Sand and Gravel
Synonyms:	Aggregate, Manufactured Sand, Natural Stone, Crushed Stone
Type of Products:	Sand and Gravel aggregate may be used in the manufacture of bricks, mortar, cement, concrete, plasters, paving materials, and other construction materials. It must not be used as an abrasive blasting agent.

SECTION 2	HAZARD(S) IDENTIFICATION
Classifications:	Carcinogenicity – Category 1A Specific Target Organ Toxicity, Repeated Exposure – Category 2
Pictograms:	
Signal Word:	Danger
Hazard Statements:	May cause cancer (inhalation) May cause damage to organs (lungs) through prolonged or repeated exposure
Precautionary Statements:	Do not handle until this safety information contained in this SDS has been read and understood. Wash any exposed body parts. Wear proper personal protective equipment such as gloves, protective clothing, eye protection, and /or face protection. If on skin: wash with plenty of water for several minutes. If in eyes, flush eyes with running potable water for at least 20 minutes; remove contact lenses, if present and easy to do. Restrict or control access to stockpile areas . Engulfment hazard: To prevent burial or suffocation, do not enter a confined space, such as a silo, bulk truck or other storage container or vessel that stores or contains aggregates without an effective and well communicated safety procedures. Dispose in accordance with local/regional/national/international regulations.

SECTION 3	COMPOSITION/INFORMATION ON INGREDIENTS	
There are no additional ingredients present which, within current knowledge of the supplier and in the concentrations applicable, are classified as hazardous. These materials are mined from the earth. Trace amounts of naturally occurring elements may be detected during chemical analysis.		
Component	CAS Registry No.	% by Weight (Approximately)
Sand and Gravel	None	99%
Crystalline Silica (Quartz)	14808-60-7	< 1
CAS Chemical Abstract Service		

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SECTION 4	FIRST AID MEASURES
Inhalation:	Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Seek medical attention if symptoms do not subside.
Eyes:	Immediately flush eye(s) with plenty of clean, cool potable water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Beyond flushing do not attempt to remove materials from eyes. Get medical attention if irritation persists or develops later.
Skin:	Wash skin with mild soap and clean potable water. Seek medical treatment if irritation develops and persists.
Ingestion:	If person is conscious, give a large quantity of water. Do not induce vomiting. Get medical attention if gastrointestinal symptoms develop.

SECTION 5	FIRE-FIGHTING MEASURES
Extinguishing Agent:	Not flammable/not combustible.
Unusual Fire and Explosion Hazards:	None reported. Not a combustible dust.
Special Fire Fighting Procedures:	None known. The presence of this material in a fire does not hinder the use of any standard extinguishing agent. Use extinguishing agent for any surrounding fire.
Hazardous Combustion Products:	None known.

SECTION 6	ACCIDENTAL RELEASE MEASURES
<p>Spilled material: Collect dry material with a scoop or similar. Avoid actions that cause dust to become airborne. Persons involved with clean-up should wear proper personal protective equipment. Prevent spilled material from entering sewers or drainage systems where it can accumulate and clog flow.</p> <p>Spilled material, where dust is generated, may overexpose cleanup personnel to respirable crystalline quartz silica-containing dust. Do not dry sweep or use compressed air for cleanup.</p>	

SECTION 7	HANDLING AND STORAGE
<p>Dust containing respirable crystalline silica and other components may be generated during processing, handling or storage. Use proper personal protective equipment. Do not breathe dust. Keep airborne dust to minimum. Provide local exhaust ventilation where dust is generated and becomes airborne. Avoid contact with skin and eyes. Do not store near food, beverages, or personal items. Observe appropriate Industrial Hygiene practices. Airborne concentrations of respirable dust and crystalline silica should be monitored at least initially and then as practices or work operations change.</p> <p>Natural Sand and Gravel must not be used as an abrasive blasting agent.</p>	

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SECTION 8		EXPOSURE CONTROLS/PERSONAL PROTECTION	
Component	OSHA PEL	ACGIH TLV-TWA	
Respirable (Fraction) Particulates/Dust	5 mg/m ³ TWA	Respirable Particles: 3 mg/m ³ TWA	
		Inhalable Particles: 10 mg/m ³ TWA	
Particulates (not otherwise regulated)	Total Dust: 15 mg/m ³ TWA	None Established	
Crystalline Silica (Quartz)	10 mg/m ³ / % SiO ₂ + 2	0.025 mg/m ³	
Crystalline Silica (Cristobalite)	Use ½ the value calculated from the count or mass formula for quartz	0.025 mg/m ³	
Crystalline Silica (Tridymite)	Use ½ the value calculated from the count or mass formula for quartz	None Established	
mg/m ³ milligrams per cubic meter of air volume. ACGIH American Conference of Governmental Industrial Hygienists OSHA Occupational Safety and Health Administration PEL Permissible Exposure Limit TLV Threshold Limit Value TWA Time Weighted Average			
Activities that generate dust require the use of ventilation and/or wet suppression methods and/or process enclosure(s) and/or enclosed workstations to maintain exposures below permissible limits.			
Ventilation:	Local exhaust ventilation should be used at airborne concentrations of dust (especially dust containing crystalline silica) which exceeds exposure limits.		
Respiratory Protection:	It is good practice to conduct personal monitoring to determine a worker's potential exposure to airborne concentrations of respirable and/or total dust and respirable crystalline silica during handling and use of this product, including activities which generate dust. If concentrations are below applicable exposure limits, respiratory protection is not required. If concentrations exceed the applicable exposure limits and while engineering controls are being implemented, use a NIOSH approved air-purifying respirator equipped with the appropriate filter in accordance with an employer/company-specific Respiratory Protection Program.		
Eye Protection:	Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or anticipated. An eyewash station should be immediately available at the work area.		
Skin Protection:	Wear gloves to provide hand protection from abrasion. In dusty condition, use long sleeve shirts. Wash work clothes after each use.		
Personal Hygiene:	Wash dust-exposed hands with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities.		

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SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
Appearance:	Solid, particles of granular mixture. Angular or round multi-colored particles
Odor and Odor Threshold:	No odor
pH:	Not available
Specific Gravity:	2.55 – 2.80
Melting Point/Freezing Point:	Not applicable
Boiling Point:	Not applicable
Flash Point:	Not applicable
Flammability/Explosive Limits:	Not flammable
Autoignition Temperature:	Not flammable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Solubility:	Insoluble

SECTION 10	STABILITY
Stability:	Stabile
Incompatibility (Materials to Avoid):	Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, oxygen difluoride, and hydrogen peroxide yielding possible fire and/or explosions. Silica is also incompatible with acetylene and ammonia. Silica dissolves readily in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.
Conditions to Avoid:	Avoid contact with incompatible materials (as above).
Hazardous Decomposition Products:	Silica dissolves in hydrofluoric acid producing a corrosive gas-silicon tetrafluoride. Particles may be generated when heated. Quartz is slowly transformed into Tridymite (above 860°C/1580°F) and Cristobalite (above 1470°C/2678°F). Both Tridymite and Cristobalite are forms of crystalline silica.
Hazardous Polymerization:	Not known to polymerize

SECTION 11	TOXICOLOGICAL INFORMATION
Natural sand and gravel is not acutely toxic.	
Primary Routes of Exposure:	Inhalation
Eye Contact:	Direct contact with the eyes may cause temporary irritation through mechanical abrasion. If the eye is scratched, tearing, redness, a stinging or burning feeling or swelling of the eyes with blurred vision may occur.
Skin Contact:	Dust particles can scratch and irritate the skin resulting in redness, swelling, or rash. However, this material is not expected to be a skin hazard.
Skin Absorption:	Not expected to be a significant route of exposure.

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SECTION 11	TOXICOLOGICAL INFORMATION
Ingestion:	Inadvertent ingestion of small quantities of sand and gravel are not known to be harmful. Accidental ingestion of larger quantities may cause gastrointestinal irritation.
Inhalation:	Dusts may irritate the nose, throat, and respiratory tract by mechanical abrasion. Repeated and prolonged or chronic exposure to respirable dust in excess of allowable exposure limits can result in pneumoconiosis, a lung disease. Repeated and prolonged (chronic) exposure to respirable crystalline silica-containing dust in excess of allowable exposure limits may cause silicosis, a progressive pneumoconiosis, and possibly lung cancer. Silicosis increases the risk of contracting pulmonary tuberculosis.
Medical Conditions Aggravated By Exposure:	Inhaling respirable dust and/or crystalline silica may aggravate existing respiratory system diseases(s) such as bronchitis, emphysema, chronic obstructive pulmonary disease (COPD). Exposure to dust may aggravate existing skin and/or eye conditions. Smoking and COPD may also exacerbate the effects of excessive exposure to this material.
Carcinogenicity:	<p>Respirable Crystalline Silica</p> <p>Crystalline Silica: The IARC concluded that there is “sufficient evidence in humans for the carcinogenicity of crystalline silica in the form of quartz or Cristobalite,” there is “sufficient evidence in experimental animals for the carcinogenicity of quartz dust” and there is “limited evidence in experimental animals for the carcinogenicity of Tridymite dust and Cristobalite dust”. The overall IARC evaluation is that “crystalline silica inhaled in the form of quartz or Cristobalite dust is carcinogenic to humans (Group I)”. The IARC evaluation noted that not all industrial circumstances studied evidenced carcinogenicity. The NTP has listed respirable crystalline silica as a known human carcinogen. The American Conference of Governmental Industrial Hygienists (ACGIH) has listed respirable crystalline silica (quartz) as a suspected human carcinogen (A-2 designation, 2015). The Occupational Safety and Health Administration (OSHA) does not list crystalline silica on the carcinogen list.</p> <p>California Proposition 65 – Crystalline silica was listed in 1996 on the Safe Drinking Water and Toxic Enforcement Act of 1986 as a “chemical known to the state to cause cancer or reproductive toxicity.”</p>
Specific Target Organ Toxicity (Acute Exposure):	This product is not reported to have any single exposure specific target organ toxicity effects.
Specific Target Organ Toxicity (Chronic Exposure):	Causes damage to organs through prolonged or repeated exposure to lungs.

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SECTION 11	TOXICOLOGICAL INFORMATION
Signs & Symptoms of Overexposure:	Dusts may irritate the nose throat and respiratory system by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur. Symptoms of silicosis include (but may not be limited to): shortness of breath, difficulty breathing upon exertion, coughing, diminished chest expansion, reduction in lung volume, right heart enlargement, or failure.

SECTION 12	ECOLOGICAL INFORMATION
Not expected to be harmful to aquatic organisms. Discharging sand and gravel dust and fines into waters may increase total suspended particulates (TSP) levels that can be harmful to certain aquatic organisms.	

SECTION 13	DISPOSAL CONSIDERATIONS
Do not permit fine particulate matter to enter water supplies. Dispose of in accordance with local/regional/national/international regulations.	

SECTION 14	TRANSPORT INFORMATION
U.S. Department of Transportation (USDOT):	Not regulated
Transportation of Dangerous Goods (TDG):	Not regulated
IATA:	Not regulated
IMDG-Code:	Not regulated


SECTION 15	IDENTIFICATION
CERCLA:	This product is not listed as a CERCLA hazardous substance (40 CFR 302.4)
TSCA Status:	The components in this product are listed on the TSCA Inventory or are exempt.
DSL Status:	All components of this product are on the Canadian DSL list.
SARA 311/312 Hazards:	Considered a delayed health hazard.
Penn. RTK:	US Pennsylvania Worker and Community Right-to-Know Law (34 PA Code Chap. 301-323): Quartz silica is considered hazardous for purposes of this Act, but it is not a special hazardous substance or an environmental hazardous substance.
Mass. RTK:	US Massachusetts Commonwealth's Right-To-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000). Respirable crystalline silica is considered toxic when used in abrasive blasting and molding.
NJ RTK:	US New Jersey Worker and Community Right-To-Know Act (New Jersey Statute Annotated Section 34: 5A-5). Respirable Crystalline Quartz Silica (as well as other forms)
California Prop 65:	Warning! This product contains chemicals (Respirable Crystalline Quartz Silica) known to the State of California to cause cancer.

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SECTION 16	OTHER INFORMATION
Label Requirements:	
OSHA:	Label as required by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
WHMIS Classification:	D2A "Materials Causing Other Toxic Effects" and is subject to WHMIS requirements. 
Disclaimer:	The information contained herein is furnished without warranty of any kind. Employers should use this Information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. The data in this SDS was prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws, standards, and regulations applicable to the safe handling and use of these products and to determine the suitability of the product for its intended use.