



Sequatchie Concrete Service, Inc


SAFETY DATA SHEET (SDS)

Sand – Sand Switch Mine- Sewanee TN

Section 1. Identification

Product identifier:	Natural sand from sandstone
Other means of identification:	Crushed stone, Construction Aggregate, Sand, Masonry Sand
Identified uses:	Used in a variety of construction applications, such as but not limited to the manufacturing of ready mix concrete, concrete block and mortar mix
Supplier's details:	Sequatchie Concrete Service, Inc. 406 Cedar Avenue South Pittsburg, TN 37380
Emergency telephone number:	423-837-7913 or 1800-824-7913 7am-5pm M-F

Section 2. Hazards Identification

Classification of mixture:	Repeated exposure Skin Corrosion/Irritation: Category 2 Eye Damage/Irritation: Category 2a Specific Target Organ Toxicity: Category 2 Carcinogenicity: Category 1a
Signal word:	Danger
Pictograms:	
Hazard statements:	May cause eye, skin and respiratory tract irritation. May cause respiratory irritation.
Precautionary statements:	Wear eye and/or face protection. Avoid breathing dust. Stockpiles may present risk of engulfment. Medical conditions may be aggravated by exposure. Contact to the skin, eyes and respiratory tract may be irritating. Avoid contact with the eyes and wear appropriate skin and eye protection when necessary. See Section 7 for additional details.
Hazards not otherwise classified:	Not applicable.

Section 3. Composition/Information on Ingredients

Substance/mixture:	Crushed Sand Stone- (silica quartz)	
CAS number:	14808-60-7	
Product code:	Not applicable.	
Ingredient name :	%	CAS Number
Silica Quartz	<99	14808-60-7
<p>Any concentration shown as a range is to protect confidentiality or is due to natural variations. Nothing is added to the product during the manufacturing process. This product is mined from the earth, crushed and separated for size based on construction need.</p> <p>There may be trace elements found naturally in the crushed stone. These elements can be found with a chemical analysis. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.</p> <p>Occupational exposure limits, if available, are listed in Section 8.</p>		

Section 4. First-aid Measures

Inhalation:	Move to fresh air. Get medical attention if any symptoms develop or persist.
Skin contact:	Wash exposed area with soap and water. Get medical attention if irritation persists.
Eye contact:	Immediately flush eyes with plenty of water, for at least 15 minutes. Occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Do not attempt to remove debris yourself. Get medical attention if irritation persists.
Ingestion:	Get medical attention. Rinse mouth thoroughly with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. This product contains crystalline silica. Prolonged inhalation may cause silicosis and may cause cancer.
Important symptoms/effects, acute and delayed:	
Inhalation:	May cause respiratory irritation, shortness of breath and coughing. Prolonged inhalation may cause chronic health effects.
Indication of immediate medical attention and special treatment, if necessary:	
Notes to physician:	Treat symptomatically. Continue to monitor as symptoms may be delayed.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. They should take note of the material and relay that information to the treating physician.
See toxicological information listed in Section 11.	

Section 5. Fire-fighting Measures

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
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Unsuitable extinguishing media:	None known.
Specific hazards arising from the product:	No specific fire or explosion hazard.
Hazardous thermal decomposition products may include:	None known
Special protective equipment and precautions for fire-fighters:	Fire-fighters should wear appropriate protective equipment for surrounding materials.

Section 6. Accidental Release Measures

Personal precautions, personal protective equipment and emergency procedures for non-emergency responders.	Personnel involved with handling the spilled material should wear appropriate personal protective equipment and clothing. Measures should be taken to contain or reduce dust while cleanup is performed, such as wetting the material with water. Respirated dust can cause adverse health effects due to the respirable crystallized silica.
Methods and materials for containment and cleaning up spills:	Spilled material should be managed in such a way that it does not enter into any drains, waterways or environmentally protected areas.
USDOT Class: Uncontaminated natural sand does not meet any hazardous material class definition found in Title 49 Code of Federal Regulations Part 173.	

Section 7. Handling and Storage

Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Provide proper ventilation if material is being stored or used indoors. Reduce dust exposure, do not breath dust and avoid prolonged exposure to dust. Wear proper protective equipment.
Conditions for safe storage, including any incompatibilities:	Avoid airborne dust or the accumulation of it.
General occupational hygiene :	Launder dusty clothing before wearing again. If respiratory personal protective equipment is used make sure that the proper OSHA standards are followed.

Section 8. Exposure Controls/Personal Protection

Ingredient name:	Exposure limits:			
	OSHA PEL:	ACGIH TLV:	NIOSH REL:	MSHA PEL:
Quartz*	TWA: 10 mg/m ³ / (%SiO ₂ +2) 8 hours. Form: Respirable	TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction	TWA: 0.05 mg/m ³ 10 hours. Form: respirable dust	10mg/m ³
Continued...	TWA: 250 MPPCF / (%SiO ₂ +5) 8 hours. Form: Respirable			

* The percent of silica varies greatly from product to product and also within the same product. Silica exposure may occur when respirable dust is present.

Appropriate engineering controls:	Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Biological limit values:	There are no biological exposure limits for any of the ingredient(s)
Individual protection measures (including Personal Protective Equipment):	<p>Clean water should always be readily available. Wash hands after handling, before eating or drinking. To prevent eye contact, wear safety glasses with side shields, safety goggles or face shields especially if dust is present. Wash work clothing and protective equipment frequently.</p> <p>Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. (See OSHA Respiratory Protection Standard 29 CFR 1910.134)</p>

Section 9. Physical and Chemical Properties

Appearance (physical state, color, etc.)	Solid, granular, various colors including: tan, white, gray and translucent particles.	Upper/lower flammability or explosive limits:	N/A
Odor:	Odorless	Vapor pressure:	N/A
Odor threshold:	N/A	Vapor density:	N/A
pH:	N/A	Relative density:	N/A
Melting point/freezing point:	N/A	Solubility:	Non soluble
Initial boiling and boiling range:	N/A	Partition coefficient: n-octanol/water:	N/A
Flash point:	Not flammable. Not combustible.	Auto-ignition temperature:	N/A
Evaporation rate:	N/A	Decomposition temperature:	N/A
Flammability (solid, gas):	N/A	Viscosity:	N/A

Section 10. Stability and Reactivity

Reactivity:	This material is stable and does not react in normal conditions of use, transportation or storage.
Chemical stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Avoid contact with strong oxidizing agents. When heated to extremely high temperatures (> 1580 °F) quartz gradually converts to tridymite or cristobalite – forms of crystalline silica which are considered to be more hazardous than quartz
Incompatible materials:	Crystalline silica may react violently with strong oxidizing agents, causing fire and explosions.

Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. But if the silica is dissolved in hydrofluoric acid it will produce a corrosive gas-silicon tetrafluoride.
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Section 11. Toxicological Information

Likely routes of exposure:	Dermal contact. Eye contact. Inhalation. Ingestion.						
Symptoms:							
Inhalation:	Repeated inhalation of respirable crystalline silica (quartz) may cause silicosis. Silicosis is irreversible and may be fatal. Silicosis increases the risk of contracting pulmonary tuberculosis. Some studies suggest that repeated inhalation of respirable crystalline silica may cause cancer.						
Skin contact:	It may be abrasive to the skin.						
Eye contact:	May cause adverse symptoms if direct contact is made such as: pain, watering and redness.						
Ingestion:	Although unlikely if ingestion does occur it should cause discomfort.						
Delayed and immediate effects:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.						
Numerical measures of toxicity:	No data available.						
Ingredient name:	NPT	IARC	OSHA	MSHA	NIOSH	EPA	ACGIH
Quartz	Known to be a human carcinogen.	1	N/A	N/A	N/A	N/A	A2

Section 12. Ecological Information

Ecotoxicity:	If dust and fine material should enter a waterway it could raise Total Solids and potentially have adverse effects on aquatic life.
Persistence and degradability:	No data available.
Bioaccumulative potential :	No data available.
Mobility in soil:	No data available.
Other adverse effects:	No known significant effects or hazards.

Section 13. Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. If disposal is necessary it must be done according to local and state laws or whatever governing body regulates the disposal thereof. It should never be dumped in sewers, drains, waterways, lakes or streams.

If the material is stored in a container that is empty with only residual residue it should also be disposed of in a manner that protects the environment and follows any laws that in place from local/state or federal agencies.

Section 14. Transport Information

UN number:	Not regulated.
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UN proper shipping name:	N/A
Transport hazard class(es):	N/A
Packing group:	N/A
Environmental hazards:	N/A
Transport in bulk:	Annex II of MARPOL 73/78 and the IBC Code
Special precautions:	Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory Information

OSHA Hazard Communication: This product is considered by OSHA to be a hazardous material and should be included in the employer's hazard communication program.

CERCLA/SUPERFUND: This product is not listed as a CERCLA hazardous substance.

EPCRA SARA Title III: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered a hazardous and a delayed health hazard.

Name	%	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard	Fire Hazard
Crystalline Silica (Quartz) CAS 14808-60-7	>1	NO	NO	NO	YES	NO

EPCRA SARA Section 313: This product is not subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

RCRA: If discarded in its natural form, this product would not be a hazardous waste either by listing characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA: Crystalline silica is exempted from reporting under the inventory update rule.

California Proposition 65: Crystalline silica (airborne particulates of respirable size) and Chromium (hexavalent compounds) are substances known by the State of California to cause cancer.

WHMIS/DSL: Products containing crystalline silica are classified as D2A, E and are subject to WHMIS requirements.

Section 16. Other Information

Date of last revision: February 2016

***NOTICE TO READER/PRODUCT USER:**

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of product as it is commonly used, this safety data sheet cannot anticipate and provide all of the information which might be needed in every situation. Inexperienced product users should obtain proper training before handling or using this product. In particular, the data furnished in this safety data sheet does not address hazards which may be posed by other materials mixed with this product to produce other products. Users should review any other relevant safety data sheets before working with this particular product or working on or with other associated products. If product user has purchased the product from Sequatchie Concrete Service, Inc. ("SCS"), then user acknowledges that any such purchase is subject to SCS Standard Terms and Conditions of Sale. Without limiting the generality of the foregoing, SCS makes no warranty, either express or implied, of any kind or of any nature whatsoever concerning this product or the merchantability or fitness thereof for any particular purpose or concerning the accuracy of any information provided by SCS, except that the product shall conform to any applicable contracted specifications. The information provided herein was believed by SCS to be accurate at the time of preparation, or was prepared from sources believed to be reliable, but it is the responsibility of the user to investigate, consult and understand any other pertinent sources of information to comply with all laws and procedures applicable to the safe handling, processing and use of the product and to determine the suitability of the product for its intended use. SCS's maximum obligation to user for the product shall be limited only to replacement or allowance of credit for any nonconforming product. Accordingly, user expressly agrees that SCS shall have no liability for loss or damage in excess of the price received for nonconforming or defective product or for losses or damages of any nature whatsoever, whether based on contract, breach of warranty, negligence, or otherwise, incurred or suffered by user or any other person or entity and user expressly releases SCS from any liability for any amounts in excess of the replacement of any such nonconforming (including defective) materials. In no event will SCS be liable for incidental or consequential damages. User must give SCS written notice within forty-eight (48) hours after delivery of any claim against SCS as a result of any alleged nonconforming materials or any other cause whatsoever, time being of the essence. SCS will be given reasonable opportunity to investigate all claims. Any failure by User to give written notice within such forty-eight (48) hour period will be deemed a conclusive waiver by User of all such claims against SCS.