


Safety Data Sheet

 Kaw Valley Companies, Inc.

Section 1: Identification

Product identifier

Product Name • **Natural Sand or Gravel**

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Consult manufacturer for recommended product use.

Details of the supplier of the safety data sheet

Manufacturer • Kaw Valley Companies, Inc.

5600 Kansas Avenue
Kansas City, KS 66106
United States
www.kawvalleyco.com

Telephone (General) • 913-281-9950

Emergency telephone number

Manufacturer • 913-544-7570

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Carcinogenicity 1A
Specific Target Organ Toxicity Repeated Exposure 1

Label elements

OSHA HCS 2012

DANGER



Hazard statements • May cause cancer.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention • Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

Storage/Disposal • Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Crystalline silica	CAS:14808-60-7	100%	NDA	OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs/Inhl)	NDA

Mixtures

- Material does not meet the criteria of a mixture.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- Rinse mouth. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
 - SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media

- No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- No data available

Hazardous Combustion Products

- No data available

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate the area. Do not walk through spilled material. Wear appropriate personal protective equipment.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. Keep unauthorized personnel away.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Avoid generating dust. Pick up and reuse clean material. Do not dry sweep spilled material. The wetting of spilled material and or use of respiratory equipment may be necessary.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Use only with adequate ventilation. Minimize dust generation and accumulation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage

- Keep container closed. Store in a well-ventilated place.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Crystalline silica	TWAs	0.025 mg/m ³ TWA (respirable particulate matter)	0.05 mg/m ³ TWA (respirable dust)	50 µg/m ³ TWA (listed under Respirable crystalline silica)

Exposure Limits Supplemental

OSHA

•Crystalline silica (14808-60-7): **Mineral Dusts:** ((250)/(%SiO₂ + 5) mppcf TWA, respirable fraction; (10)/(%SiO₂ + 2) mg/m³ TWA, respirable fraction)

Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment).

Personal Protective Equipment

Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-

purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety goggles.

Skin/Body

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Angular or round multicolored particles.
Color	Multicolored	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	4046 °F(2230 °C)	Melting Point/Freezing Point	3100 °F(1704.4444 °C)
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	No data available	Water Solubility	No data available
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Avoid generating dust. Incompatible materials.

Incompatible materials

- Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and/or oxygen difluoride may cause fire and/or explosion. Silica dissolves readily in hydrofluoric acid producing a corrosive gas known as silicon tetrafluoride.

Hazardous decomposition products

- No data available

Section 11 - Toxicological Information

Information on toxicological effects

Components	
Crystalline silica (100%)	14808-60-7
<p>Acute Toxicity: Inhalation-Human TClO • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea</i>; Inhalation-Rat TClO • 200 mg/kg; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe</i>;</p> <p>Multi-dose Toxicity: Inhalation-Hamster TClO • 3 mg/m³ 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight</i>; Inhalation-Rat TClO • 80 mg/m³ 26 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response</i>;</p> <p>Mutagen: Micronucleus test • Hamster • Lung (Somatic cell) • 160 µg/cm³; DNA damage • Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Human • Lung (Somatic cell) • 40 µg/cm³;</p> <p>Tumorigen / Carcinogen: Inhalation-Rat TClO • 50 mg/m³ 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i></p>	

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

Potential Health Effects

Inhalation

Acute (Immediate)

- Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)

- Chronic overexposure to dust containing respirable sized crystalline silica can cause delayed lung injury (silicosis).

Skin

Acute (Immediate)

- Exposure to dust may cause mechanical irritation.

- Chronic (Delayed)**
 - No data available
- Eye**
- Acute (Immediate)**
 - Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.
- Chronic (Delayed)**
 - No data available
- Ingestion**
- Acute (Immediate)**
 - Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.
- Chronic (Delayed)**
 - No data available
- Carcinogenic Effects**
 - Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
Crystalline silica	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

Key to abbreviations
 TC = Toxic Concentration

Section 12 - Ecological Information

Toxicity

- Non-mandatory section - information about this substance not compiled for this reason.

Persistence and degradability

- Non-mandatory section - information about this substance not compiled for this reason.

Bioaccumulative potential

- Non-mandatory section - information about this substance not compiled for this reason.

Mobility in Soil

- Non-mandatory section - information about this substance not compiled for this reason.

Other adverse effects

- Non-mandatory section - information about this substance not compiled for this reason.

Section 13 - Disposal Considerations

Waste treatment methods

- Product waste**
 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging waste**
 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
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DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
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Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Inventory		
Component	CAS	TSCA
Crystalline silica	14808-60-7	Yes

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Crystalline silica 14808-60-7 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Crystalline silica 14808-60-7 Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Crystalline silica 14808-60-7 Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Crystalline silica 14808-60-7 Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Crystalline silica 14808-60-7 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Crystalline silica 14808-60-7 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Crystalline silica 14808-60-7 Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Crystalline silica 14808-60-7 Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Crystalline silica 14808-60-7 Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Crystalline silica 14808-60-7 Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Crystalline silica 14808-60-7 Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Crystalline silica 14808-60-7 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Crystalline silica	14808-60-7	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Crystalline silica	14808-60-7	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Crystalline silica	14808-60-7	Not Listed
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Section 16 - Other Information**Revision Date**

- 29/October/2018

Last Revision Date

- 29/October/2018

Preparation Date

- 01/May/2015

Disclaimer/Statement of Liability

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Key to abbreviations

NDA = No Data Available