



Sand and Gravel

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/22/2018 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Sand and Gravel

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

Use of the substance/mixture : Construction Material

1.3. Details of the supplier of the safety data sheet

Colas Solutions, Inc.
7374 Main Street
Cincinnati, OH 45244
Customer Service: 1-888-369-3163

1.4. Emergency telephone number

Emergency number : 3E Company 1-800-451-8346

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Carc. 1A H350
STOT RE 2 H373

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : H350 - May cause cancer
H373 - May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation)
Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust
P280 - Wear protective gloves/protective clothing/eye protection
P308 + P313 - If exposed or concerned: Get medical advice/attention
P314 - Get medical advice/attention if you feel unwell

2.3. Other hazards

Dust may irritate eyes, skin and respiratory tract.

2.4. Unknown acute toxicity (GHS-US)

None of the ingredients are of unknown toxicity

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable – the substance is a mixture

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3.2. Mixture

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Name	Product identifier	%	Classification (GHS-US)
Sand and Gravel	None	100	Not classified
Crystalline Silica (Quartz)	(CAS No) 14808-60-7	> 1	Acute Tox. 4 (Oral), H302 Carc. 1A, H350 STOT SE 3, H335

Full text of H-phrases: see section 16

Sand and gravel in its natural bulk state is not a known health hazard. However, processing and other activities may generate respirable dust particles, including crystalline silica

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Prolonged inhalation of dust may causes damage to lungs.
Symptoms/injuries after inhalation	: Prolonged inhalation of respirable particles of crystalline silica may cause cancer.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Product is not flammable. Use extinguishing media appropriate for surrounding materials such as :Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if material enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: On land, sweep or shovel into suitable containers. Wetting of spilled material prior to cleaning up may be necessary to minimize generation of dust.
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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Avoid dust formation or accumulation.
Incompatible products : None known.
Incompatible materials : Strong oxidizing agents

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sand and Gravel		
ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ Respirable particles
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ Respirable particles
Crystalline Silica Quartz (14808-60-7)		
ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ Respirable particles
OSHA	OSHA PEL (TWA) (mg/m ³)	0.05 mg/m ³ Respirable particles

8.2. Exposure controls

Appropriate engineering controls : Use appropriate controls to minimize generation of dust.
Personal protective equipment : Avoid all unnecessary exposure.
Hand protection : Wear gloves to protect hands from abrasion.
Eye protection : Chemical goggles or safety glasses.
Respiratory protection : In those cases where exposures exceed occupational control limits a NIOSH approved respirator is required.
Other information : Do not eat, drink or smoke during use. Any exposed areas should be washed before and after breaks and at the end of each shift. Minimize generation of dust.
Follow all engineering and respiratory protection controls required by 29 CFR 1910.1053 and 29 CFR 1926.1153, as applicable, if airborne crystalline silica is present.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Solid particles
Color : Various Colors
Odor : Odorless
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : No data available
Explosion limits : No data available
Explosive properties : No data available

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Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: 2.55 - 2.8
Relative vapor density at 20 °C	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

This product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Incompatible materials. Dust formation.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Corrosive gases in the presence of hydrofluoric acid.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Crystalline Silica (Quartz) (14808-60-7)	
LD50 oral rat	500 mg/kg
ATE US (oral)	500.000 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Prolonged inhalation of respirable particles of crystalline silica may cause cancer.

Crystalline Silica Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens
OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to lungs through prolonged or repeated inhalation exposure.
Aspiration hazard	: Not classified

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Potential Adverse human health effects and symptoms : No additional information available.
Symptoms/injuries after inhalation : May cause cancer by inhalation.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

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Persistence and degradability	Not established.
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Crystalline Silica (Quartz) (14808-60-7)

Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Crystalline Silica (Quartz) (14808-60-7)

Bioaccumulative potential	Not established.
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local, state and federal regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not regulated for transport

Additional information

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Carcinogenicity Specific target organ toxicity
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15.2. International regulations

CANADA

No additional information available

Crystalline Silica (Quartz) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

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EU-Regulations

No additional information available

Crystalline Silica (Quartz) (14808-60-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]


No additional information available

National regulations

Crystalline Silica (Quartz) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65:  **WARNING:** This product can expose you to crystalline silica (airborne particles of respirable size), which is known to the State of California to cause cancer. For more information, go to www.p65warnings.ca.gov.

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1A	Carcinogenicity Category 1A
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H335	May cause respiratory irritation
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure

SDS US (GHS HazCom 2012)

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