

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Sand and Gravel (Construction Aggregate)

**Synonyms:** Natural Sand, River Sand Screenings, Aggregates, Bank Sand, Crushed Gravel, Concrete Sand, Asphalt Sand, Mason Sand, Fill Sand, Gravel, Crushed Rock, Crushed Stone

### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** Construction

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Phoenix Cement Company

8800 E. Chaparral Rd. Suite 155

Scottsdale, AZ 85250-2606

Customer Service: Phone (480)-850-5757 Fax (480) 850-4333

[www.srmaterials.com](http://www.srmaterials.com)

### 1.4. Emergency Telephone Number

**Emergency Number** : 1-800-424-9300 (CHEMTREC) 24-hour

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-US)

Carc. 1A H350

STOT SE 3 H335

STOT RE 1 H372

### 2.2. Label Elements

#### GHS-US Labeling

#### Hazard Pictograms (GHS-US)



#### Signal Word (GHS-US)

: Danger

#### Hazard Statements (GHS-US)

: H335 - May cause respiratory irritation

H350 - May cause cancer (Inhalation)

H372 - Causes damage to organs through prolonged or repeated exposure

#### Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271+P260 - Use only outdoors or in a well-ventilated area. Do not breathe dust.

P280 - Wear eye protection, protective clothing, protective gloves.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a POISON CENTER/doctor/physician if you feel unwell.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P501 - Dispose of contents/container according to local, regional, national, and international regulations.

### 2.3. Other Hazards

**Other Hazards Not Contributing to the Classification:** Smoking increases the risk of bronchitis, silicosis, and lung cancer that is associated with this product. This product may also increase the risk of scleroderma for which the causes are unknown, but some reports link overexposure to silica in combination with other chemicals to this disease. Sand is abrasive and can cause serious eye damage if embedded in the eye. Do not rub.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name                    | Product identifier  | %   | Classification (GHS-US)                              |
|-------------------------|---------------------|-----|--|
| Natural Sand and Gravel | -                   | 100 | Not classified                                       |
| Quartz                  | (CAS No) 14808-60-7 | > 1 | Carc. 1A, H350<br>STOT SE 3, H335<br>STOT RE 1, H372 |

Full text of H-phrases: see section 16

### 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.

**First-aid Measures After Inhalation:** If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

**First-aid Measures After Eye Contact:** Do not rub. Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Rinse mouth. Do not induce vomiting. Get medical advice and attention.

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

**Symptoms/Injuries:** Irritation to eyes, skin and respiratory tract.

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation. Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. May cause cancer by inhalation.

**Symptoms/Injuries After Skin Contact:** May cause irritation.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

**Symptoms/Injuries After Ingestion:** May be harmful if swallowed.

**Chronic Symptoms:** If dust is generated, repeated exposure through inhalation may cause cancer or lung disease.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, may cause fire. It dissolves in hydrofluoric acid and may produce a corrosive gas (silicon tetrafluoride).

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Do not allow run-off from fire fighting to enter drains or water courses.

**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

**General Measures:** Do not breathe dust. Avoid all contact with skin, eyes, or clothing. Avoid generating dust.

##### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 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.

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### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain and collect as any solid.

**Methods for Cleaning Up:** Avoid generation of dust during clean-up of spills.

### 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:** Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Products:** Strong oxidizers. Hydrofluoric Acid.

### 7.3. Specific End Use(s)

Construction.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

| Quartz (14808-60-7) |                                      |                         |
|---------------------|--------------------------------------|-------------------------|
| USA ACGIH           | ACGIH TWA (mg/m <sup>3</sup> )       | 0.025 mg/m <sup>3</sup> |
| USA NIOSH           | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 0.05 mg/m <sup>3</sup>  |
| USA IDLH            | US IDLH (mg/m <sup>3</sup> )         | 50 mg/m <sup>3</sup>    |

### 8.2. Exposure Controls

#### Appropriate Engineering Controls

: Ensure adequate ventilation, especially in confined areas. Respirable dust and quartz should be monitored regularly to determine worker exposure levels.

#### Personal Protective Equipment

: Safety glasses. Gloves. Protective clothing. Dust formation: dust mask.



#### Hand Protection

: Wear chemically resistant protective gloves.

#### Eye Protection

: Chemical goggles or safety glasses.

#### Skin and Body Protection

: Wear suitable protective clothing.

#### Respiratory Protection

: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits. Respirator must comply with applicable OSHA standards (29 CFR 1910.1340).

#### Other Information

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|  |  |
|--|--|
| Physical State                             | : Solid                                    |
| Appearance                                 | : Angular or round multicolored particles. |
| Odor                                       | : No odor.                                 |
| Odor Threshold                             | : No data available                        |
| pH   | : No data available                        |
| Relative Evaporation Rate (butylacetate=1) | : 0  |
| Melting Point                              | : No data available                        |
| Freezing Point                             | : No data available                        |
| Boiling Point                              | : No data available                        |
| Flash Point                                | : No data available                        |
| Auto-ignition Temperature                  | : No data available                        |
| Decomposition Temperature                  | : No data available                        |
| Flammability (solid, gas)                  | : No data available                        |
| Vapor Pressure                             | : No data available                        |

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|  |                          |
|--|--------------------------|
| Relative Vapor Density at 20 °C        | : No data available      |
| Relative Density                       | : 2.55 - 2.8             |
| Solubility                             | : Water: 0 % (Insoluble) |
| Partition coefficient: n-octanol/water | : No data available      |
| Viscosity                              | : No data available      |

**9.2. Other Information** No additional information available

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:** Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, may cause fire. It dissolves in hydrofluoric acid and may produce a corrosive gas (silicon tetrafluoride).

**10.2 Chemical Stability:** The product is stable at normal handling and storage conditions.

**10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to Avoid:** Avoid creating or spreading dust.

**10.5 Incompatible Materials:** Strong oxidizers. Hydrofluoric acid.

**10.6 Hazardous Decomposition Products:** Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870°C, it can change to a form of crystalline silica known as tridymite, and if crystalline silica (quartz) is heated to more than 1470°C, it can change to a form of crystalline silica known as cristobalite. The OSHA PEL for crystalline silica as tridymite and cristobalite is one-half of the OSHA PEL for crystalline silica (quartz).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

**Acute Toxicity:** Not classified

|                            |              |
|----------------------------|--------------|
| <b>Quartz (14808-60-7)</b> |              |
| LD50 Oral Rat              | > 5000 mg/kg |

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** May cause cancer (Inhalation).

|  |                          |
|--|--------------------------|
| <b>Quartz (14808-60-7)</b>             |                          |
| IARC group                             | 1                        |
| National Toxicity Program (NTP) Status | Known Human Carcinogens. |

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Specific Target Organ Toxicity (Repeated Exposure):** Causes damage to organs through prolonged or repeated exposure.

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation. Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. May cause cancer by inhalation.

**Symptoms/Injuries After Skin Contact:** May cause irritation.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

**Symptoms/Injuries After Ingestion:** May be harmful if swallowed.

**Chronic Symptoms:** If dust is generated, repeated exposure through inhalation may cause cancer or lung disease.

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity** No additional information available

**12.2. Persistence and Degradability** No additional information available

**12.3. Bioaccumulative Potential** No additional information available

**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 of waste material in accordance with all local, regional, national, and international regulations.

## SECTION 14: TRANSPORT INFORMATION

**14.1 In Accordance with DOT** Not regulated for transport

**14.2 In Accordance with IMDG** Not regulated for transport

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**14.3 In Accordance with IATA** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

|   |  |
|---|--|
| <b>Sand and Gravel (Construction Aggregate)</b>                           |  |
| <b>SARA Section 311/312 Hazard Classes</b>                                | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
| <b>Quartz (14808-60-7)</b>  |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |

### 15.2 US State Regulations

|   |  |
|---|--|
| <b>Quartz (14808-60-7)</b>  |  |
| <b>U.S. - California - Proposition 65 - Carcinogens List</b>  | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| <b>Quartz (14808-60-7)</b>  |  |
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - New Jersey - Special Health Hazards Substances List<br>U.S. - Pennsylvania - RTK (Right to Know) List |  |

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision date** : 06/05/2014

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

|           |  |
|-----------|--|
| Carc. 1A  | Carcinogenicity Category 1A                                    |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1  |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3    |
| H335      | May cause respiratory irritation                               |
| H350      | May cause cancer   |
| H372      | Causes damage to organs through prolonged or repeated exposure |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)