Safety Data Sheet  Sand and Gravel

Section 1. Identification

GHS product identifier: Sand and Gravel
Other means of identification: Aggregate, Manufactured Sand, Natural Stone, Crushed Stone
Relevant identified uses of the substance or mixture and uses advised against:

Sand and Gravel aggregate may be used in the manufacture of bricks, mortar, cement, concrete, plasters, paving materials, and other construction materials. Sand and Gravel aggregate may be distributed in bags, totes, and bulk shipments. No known recommended restrictions.

Supplier’s details: 300 E. John Carpenter Freeway, Suite 1645
Irving, TX 75062
(972) 653-5500

Emergency telephone number (24 hours): CHEMTREC: (800) 424-9300

Section 2. Hazards Identification

GHS Classification:
- CARCINOGENICITY – Category 1A; H350
- SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) – Category 2; H335
- SKIN CORROSION/IRRITATION – Category 1C; H314
- SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1; H318

GHS label elements
Hazard pictograms:

Signal word: Danger
Hazard statements:
- May cause cancer
- May cause damage to organs (lung) through prolonged or repeated exposure
- Causes skin irritation
- Causes serious eye irritation

Precautionary statements:
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response: If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do.
Storage: Restrict or control access to stockpile areas (store locked up). 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 procedure for assuring safety.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazards not otherwise classified (HNOC): None known
Supplemental Information: Respirable Crystalline Silica (RCS) may cause cancer. Sand and Gravel is a naturally occurring mineral complex that contains varying quantities of quartz (crystalline silica). In its natural bulk state, sand and gravel is not a known health hazard. Sand and Gravel may be subjected to various natural or mechanical forces that produce small particles (dust) which may contain respirable crystalline silica (particles less than 10 micrometers in aerodynamic diameter). Repeated inhalation of respirable crystalline silica (quartz) may cause lung cancer according to IARC and NTP. ACGIH states that it is a suspected cause of cancer. Other forms of RCS (e.g., tridymite and cristobalite) may also be present or formed under certain industrial processes.

Section 3. Composition/information on ingredients

CAS number/other identifiers
### Substance/mixture:
Sand and Gravel

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand and Gravel</td>
<td>&gt; 99</td>
<td>None</td>
</tr>
<tr>
<td>Crystalline Silica (Quartz)</td>
<td>&gt; 1</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to process variation. 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. These materials are mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

**Eye Contact:**
Dust: Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart. Remove contacts is present and easy to do. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from the eye(s). Get medical attention if irritation develops or persists.

**Inhalation:**
Dust: Move to fresh air. Call a physician if symptoms develop or persist.

**Skin Contact:**
Dust: Wash off with soap and water. Get medical attention if irritation develops and persists.

**Ingestion:**
Dust: Rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

### Most important symptoms/effects, acute and delayed

Inhaling dust may cause discomfort in the chest, shortness of breath, and coughing. Prolonged inhalation may cause chronic health effects. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica liberated from this product can cause silicosis, and may cause cancer.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician:**
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**Specific treatments:**
Not Applicable

**Protection of first-aiders:**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**General information:**
Pre-existing medical conditions that may be aggravated by exposure include disorders of the eye, skin and lung (including asthma and other breathing disorders). If addicted to tobacco, smoking will impair the ability of the lungs to clear themselves of dust.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media:**
Not flammable. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:**
None known.

**Specific hazards arising from the chemical:**
No unusual fire or explosion hazards noted. Not a combustible dust.

**Hazardous thermal decomposition Products:**
None known

**Special protective equipment for fire-fighters:**
Use protective equipment appropriate for surrounding materials. No specific precautions.

**General fire hazards:**
Contact with powerful oxidizing agents may cause fire and/or explosions (see section 10 of SDS). No unusual fire or explosion hazards.
Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment and clothing during clean-up of materials that contain or may liberate dust.

Methods and materials for containment, cleaning up and Environmental precautions

Spilled material, where dust is generated, may overexpose cleanup personnel to respirable crystalline silica-containing dust. Do not dry sweep or use compressed air for clean-up. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Avoid discharge of fine particulate matter into drains or water courses.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment.

Advice on general occupational hygiene: Observe good industrial hygiene practices. Promptly remove dusty clothing and launder before reuse.

Conditions for safe storage, including any incompatibilities: Avoid dust formation or accumulation.

Section 8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
</table>
| Particulates not otherwise classified (CAS SEQ250)   | ACGIH TLV (United States, Canada)  
TWA: 3 mg/m³. Form: Respirable particles  
TWA: 10 mg/m³. Form: Inhalable particles  
OSHA PEL (United States)  
PEL: 5 mg/m³. Form: Respirable fraction  
PEL: 15 mg/m³. Form: Total dust  
MSHA PEL (United States)  
PEL: 5 mg/m³. Form: Respirable fraction  
PEL: 10 mg/m³. Form: Total dust |
| Crystalline Silica (Quartz) (CAS 14808-60-7)         | ACGIH TLV (United States)  
TWA: 0.025 mg/m³. Form: Respirable fraction  
OSHA PEL (United States)  
TWA: 0.05 mg/m³. Form: Respirable  
MSHA PEL (United States)  
TWA: 10/(%SiO2 + 2) in mg/m³  
Provincial Exposure Limits (Canada, various)  
▪ Alberta (OHS Code)  
0.025 mg/m³ 8 hour TWA  
▪ British Columbia (WorkSafeBC OHS Regulation)  
0.025 mg/m³ 8 hour TWA  
▪ British Columbia (Health, Safety & Reclamation Code, Mines Act)  
0.1 mg/m³ 8 hour TWA  
▪ Manitoba (Workplace Safety and Health Regulation)  
0.025 mg/m³ 8 hour TWA  
▪ New Brunswick  
0.025 mg/m³ 8 hour TWA  
▪ Newfoundland |
### Individual protection measures

**Hygiene measures:**
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Eye/face protection:**
Wear safety glasses with side shields (or goggles).

**Hand protection:**
Use personal protective equipment as required.

**Body protection:**
Use personal protective equipment as required.

**Respiratory protection:**
When handling or performing work that produces dust or respirable crystalline silica in excess of applicable exposure limits, wear a NIOSH-approved respirator that is properly fitted and is in good condition. Respirators must be used in accordance with all applicable workplace regulations.

**Thermal hazards:**
Not anticipated. Wear appropriate thermal protective clothing if necessary.

### Section 9. Physical and chemical properties

#### Appearance

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State:</strong></td>
<td>Solid, particles of granular mixture</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Color:</strong></td>
<td>Various colors</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Odor threshold:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Melting point:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Boiling point:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flash point:</strong></td>
<td>Non-combustible</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Burning time:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Burning rate:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Evaporation Rate:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas):</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Lower and Upper explosive flammable limits</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Vapor pressure:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Vapor density:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Relative density:</strong></td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Solubility:</strong></td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Solubility in water:</strong></td>
<td>Insoluble</td>
<td>Insoluble</td>
</tr>
<tr>
<td><strong>Partition coefficient:</strong></td>
<td>n-octanol/water</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>SADT:</strong></td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: Avoid contact with strong oxidizing agents.
Incompatible materials: Crystalline silica may react violently with strong oxidizing agents, causing fire and explosions.
Hazardous decomposition products: Silica dissolves in hydrofluoric acid producing a corrosive gas-silicon tetrafluoride.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity: Not expected to be acutely toxic.
Irritation/Corrosion: Skin: Dust: May cause irritation through mechanical abrasion. This product is not expected to be a skin hazard.
Eyes: Direct contact with eyes may cause temporary irritation through mechanical abrasion.
Inhalation: Repeated inhalation of respirable crystalline silica (quartz) may cause silicosis, a fibrosis (scarring) of the lungs. 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 other adverse health effects including lung and kidney cancer.
Ingestion: Not likely due to product form. However accidental ingestion may cause discomfort.
Sensitization: Respiratory sensitization: No respiratory sensitizing effects known.
Mutagenicity: Skin sensitization: Not known to be a dermal irritant or sensitizer.
Aspiration Hazard: Not expected to be an aspiration hazard.
Reproductive toxicity: Not expected to be a reproductive hazard.
Symptoms related to physical, chemical and toxicological characteristics: Dust: discomfort in the chest. Shortness of breath. Coughing.
Carcinogenicity: Respirable crystalline silica has been classified by IARC and NTP as a known human carcinogen, and classified by ACGIH as a suspected human carcinogen.

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>ACGIH</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica (Quartz) CAS 14808-60-7</td>
<td>Not listed</td>
<td>1 Carcinogenic to humans</td>
<td>A2</td>
<td>Known to be human Carcinogen</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (acute exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of Exposure</th>
<th>Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica (Quartz) CAS 14808-60-7</td>
<td>-</td>
<td>Inhalation</td>
<td>Not reported to have effects</td>
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</tbody>
</table>

Specific target organ toxicity (chronic exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of Exposure</th>
<th>Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica (Quartz) CAS 14808-60-7</td>
<td></td>
<td>Inhalation</td>
<td>May cause damage to organs (lung through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>
associated with autoimmune disorders and other adverse health effects involving the kidney. In particular, the incidence of scleroderma (thickening of the skin caused by swelling and the thickening of fibrous tissue) appears to be higher in silicotic individuals. To date, the evidence does not conclusively determine a causal relationship between silica exposure and these adverse health effects.

Section 12. Ecological Information

Ecotoxicity

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

Persistence and degradability: Not applicable.
Bioaccumulative potential: Not applicable.
Mobility in soil: Not applicable.
Other adverse effects: No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, global warming potential) are expected from this component.

Section 13. Disposal considerations

Disposal methods: Do not allow fine particulate matter to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with fine particulates. Dispose of contents in accordance with local/regional/national/international regulations.

Hazardous waste code: Not regulated.
Waste from residues/unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty packaging materials should be recycled or disposed of in accordance with applicable regulations and practices.

Section 14. Transportation information

<table>
<thead>
<tr>
<th>UN number</th>
<th>DOT Classification</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport hazard class(es)</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Environmental hazards</td>
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<td>-</td>
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</tr>
<tr>
<td>Canada TDG</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Cod

Section 15. Regulatory Information

U.S. Federal regulations:
TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D):
CERCLA Hazardous Substance List (40 CFR 302.4):
Clean Air Act Section 112 (b): Hazardous Air Pollutants (HAPs):
Clean Air Act Section 112 (r) Accidental Release Prevention (40 CFR 68.130):
Safe Drinking Water Act (SDWA):
Canada Federal Regulations:

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

Not regulated
Listed
Not listed
Not regulated
Not regulated
NSNR Status – Listed on DSL or exempt
SARA 311/312

Classification: Delayed (chronic) health hazard

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire Hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica (Quartz) CAS 14808-60-7</td>
<td>&gt;1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

SARA 313 (TRI)

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>Form R-Report requirements</td>
<td>Crystalline Silica (Quartz)</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

State regulations

Massachusetts RTK: The following components are listed: Crystalline Silica (Quartz) (CAS 14808-60-7), Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

New Jersey RTK: The following components are listed: Crystalline Silica (Quartz) (CAS 14808-60-7), Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS mixture)

Pennsylvania RTK: The following components are listed: Crystalline Silica (Quartz) (CAS 14808-60-7), Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

Rhode Island RTK: Not regulated.

California Prop. 65

WARNING: This product contains crystalline silica and chemicals (trace metals) known to the State of California to cause cancer.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica (Quartz) CAS 14808-60-7</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

International regulations

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS #</th>
<th>TSCA</th>
<th>Canada</th>
<th>WHMIS</th>
<th>EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica (Quartz)</td>
<td>14808-60-7</td>
<td>Yes</td>
<td>DSL</td>
<td>D2A</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

WHMIS Classification: D2A “Materials Causing Other Toxic Effects”

Section 16. Other Information

Date of issue: 01/01/2022
Replaces: 07/01/2018
Revised Section(s): Section 8, 11, 14, 15
Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of sand and gravel as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with sand and gravel to produce sand and gravel products. Users should review other relevant material safety data sheets before working with this sand and gravel or working on sand and gravel products.

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Abbreviations

ACGIH — American Conference of Governmental Industrial Hygienists
CAS — Chemical Abstract Service
CERCLA — Comprehensive Emergency Response and Comprehensive Liability Act
CFR — Code of Federal Regulations
DOT — Department of Transportation
GHS — Globally Harmonized System
HEPA — High Efficiency Particulate Air
IATA — International Air Transport Association
IARC — International Agency for Research on Cancer
IMDG — International Maritime Dangerous Goods
NIOSH — National Institute of Occupational Safety and Health
NOEC — No Observed Effect Concentration
NTP — National Toxicology Program
OSHA — Occupational Safety and Health Administration
PEL — Permissible Exposure Limit
REL — Recommended Exposure Limit
RQ — Reportable Quantity
SARA — Superfund Amendments and Reauthorization Act
SDS — Safety Data Sheet
TLV — Threshold Limit Value
TPQ — Threshold Planning Quantity
TSCA — Toxic Substances Control Act
TWA — Time-Weighted Average
UN — United Nations