Safety Data Sheet

Section 1: Identification

Product identifier
Product Name: Tiles, Slabs, Pavers, Walls

Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Landscaping

Details of the supplier of the safety data sheet
Manufacturer: Rochester Concrete Products, LLC
Address: W6558 Hwy 33, Juneau, WI 53039, United States
Website: www.rochestercp.com
Email: info@rochestercp.com
Telephone (General): 920-386-3333

Emergency telephone number
Manufacturer: 507-288-8850

Section 2: Hazard Identification

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture
OSHA HCS 2012: Skin Sensitization 1, Serious Eye Damage 1, Carcinogenicity 1A, Specific Target Organ Toxicity Repeated Exposure 1

Label elements
OSHA HCS 2012

DANGER

Hazard statements
May cause an allergic skin reaction
Causes serious eye damage
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.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
**Response**

- If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. Specific treatment, see supplemental first aid information. If skin irritation or rash occurs: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. 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**

---

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica</td>
<td>CAS:14808-60-7</td>
<td>25.02% TO 69.6%</td>
<td>NDA</td>
<td>OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs/Inhl)</td>
<td>NDA</td>
</tr>
<tr>
<td>Portland cement</td>
<td>CAS:65997-15-1</td>
<td>5.7% TO 15.2%</td>
<td>NDA</td>
<td>OSHA HCS 2012: Eye Dam. 1; Skin Sens. 1</td>
<td>NDA</td>
</tr>
<tr>
<td>Gypsum</td>
<td>CAS:13397-24-5</td>
<td>0.3% TO 0.8%</td>
<td>NDA</td>
<td>OSHA HCS 2012: STOT RE 1 (Lungs)</td>
<td>NDA</td>
</tr>
<tr>
<td>Calcium monocarbonate</td>
<td>CAS:471-34-1</td>
<td>&lt; 0.016%</td>
<td>Ingestion/Oral-Rat LD50 • 6450 mg/kg</td>
<td>OSHA HCS 2012: Exposure limit</td>
<td>NDA</td>
</tr>
</tbody>
</table>

---

## 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.

- **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
- Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.

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.
- SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
- LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading.

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
- Store in a well-ventilated place.

Section 8 - Exposure Controls/Personal Protection

Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Result</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium monocarbonate (471-34-1)</td>
<td>TWAs</td>
<td>Not established</td>
<td>10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)</td>
<td>Not established</td>
</tr>
<tr>
<td>Gypsum (13397-24-5)</td>
<td>TWAs</td>
<td>10 mg/m3 TWA (inhalable particulate matter, listed under Calcium sulfate)</td>
<td>10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)</td>
<td>15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)</td>
</tr>
<tr>
<td>Portland cement (65997-15-1)</td>
<td>TWAs</td>
<td>1 mg/m3 TWA (particulate matter containing no asbestos and &lt;1%)</td>
<td>10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)</td>
<td>15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)</td>
</tr>
</tbody>
</table>
crystalline silica, respirable particulate matter)  

<table>
<thead>
<tr>
<th>Crystalline silica</th>
<th>TWAs</th>
<th>Crystalline silica TWA (respirable particulate matter)</th>
<th>Respirable dust TWA</th>
<th>Respirable crystalline silica TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.025 mg/m³ TWA</td>
<td>0.05 mg/m³ TWA</td>
<td>50 µg/m³ TWA</td>
<td></td>
</tr>
</tbody>
</table>

**Exposure Limits Supplemental**

**OSHA**

- Portland cement (65997-15-1): **Mineral Dusts**: (50 mppcf TWA (<1% Crystalline silica))
- 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 no 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 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 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**

- 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**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Solid concrete products of various shapes, sizes, and colors.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color</strong></td>
<td>Various</td>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Properties</th>
<th>Boiling Point</th>
<th>Melting Point/Freezing Point</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition</td>
<td>No data available</td>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Temperature</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>No data available</td>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Volatility</th>
<th>Vapor Pressure</th>
<th>Vapor Density</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Flash Point</th>
<th>UEL</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEL</td>
<td>No data available</td>
<td>Autoignition</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Octanol/Water Partition coefficient</th>
<th>No data available</th>
</tr>
</thead>
</table>
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
• No data available

Incompatible materials
• No data available

Hazardous decomposition products
• No data available

Section 11 - Toxicological Information

Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity:</th>
<th>(194 \text{g/m}^3) 10 Year(s)-Intermittent; Sense Organs and Special Senses:Other changes; Lungs, Thorax, or Respiration:Fibrosing alveolitis; Lungs, Thorax, or Respiration:Other changes; Tumorigen / Carcinogen: Intra peritoneal-Rat TDLo 450 mg/kg 3 Week(s)-Intermittent; Tumorigen: Carcinogenic by RTECS criteria; Tumorigenic: Tumors at site of application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gypsum (0.3% TO 0.8%)</td>
<td>13397-24-5</td>
<td>(16 \text{mppcf} 8 \text{Hour(s)} 17.9 \text{Year(s)}-\text{Intermittent}; \text{Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea; Inhalation-Rat TCLo 200 mg/kg; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe; Multi-dose Toxicity: Inhalation-Rat TCLo 80 mg/m³ 26 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response; Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 \text{µg/cm}^2; \text{DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 \text{Hour(s)}; Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 \text{µg/cm}^2; Tumorigen / Carcinogen: Inhalation-Rat TCLo 50 mg/m³ 6 Hour(s) 71 Week(s)-Intermittent; Tumorigen: Carcinogenic by RTECS criteria; Liver:Tumors</td>
</tr>
<tr>
<td>Crystalline silica (25.02% TO 69.6%)</td>
<td>14808-60-7</td>
<td></td>
</tr>
</tbody>
</table>

GHS Properties

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
</tr>
<tr>
<td>Skin sensitization</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
</tr>
<tr>
<td>Carcinogenicity</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
</tr>
<tr>
<td>STOT-SE</td>
</tr>
<tr>
<td>STOT-RE</td>
</tr>
</tbody>
</table>
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)
- May cause skin sensitization. Symptoms include redness, and skin rash. Exposure to dust may cause mechanical irritation.

Chronic (Delayed)
- No data available

Eye

Acute (Immediate)
- Causes serious eye damage. 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.

<table>
<thead>
<tr>
<th>Carcinogenic Effects</th>
<th>CAS</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>Not Listed</td>
<td>Group 1-Carcinogenic</td>
<td>Known Human Carcinogen</td>
</tr>
<tr>
<td>Crystalline silica as Silica, crystalline (general form)</td>
<td>NDA</td>
<td>Specifically Regulated Carcinogen</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Key to abbreviations
TC = Toxic Concentration
TD = Toxic Dose

Section 12 - Ecological Information

Toxicity
- Non-mandatory section - information about this substance not compiled.

Persistence and degradability
- Non-mandatory section - information about this substance not compiled.

Bioaccumulative potential
- Non-mandatory section - information about this substance not compiled.

Mobility in Soil
- Non-mandatory section - information about this substance not compiled.

Other adverse effects
- Non-mandatory section - information about this substance not compiled.

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

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Not Applicable</td>
<td>Not Regulated</td>
<td>Not Applicable</td>
<td>NDA</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium monocarbonate</td>
<td>471-34-1</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Gypsum</td>
<td>13397-24-5</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Portland cement</td>
<td>65997-15-1</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
• Gypsum 13397-24-5 Not Listed
• Portland cement 65997-15-1 Not Listed
• Calcium monocarbonate 471-34-1 Not Listed
• Crystalline silica 14808-60-7 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals
• Gypsum 13397-24-5 Not Listed
• Portland cement 65997-15-1 Not Listed
• Calcium monocarbonate 471-34-1 Not Listed
• Crystalline silica 14808-60-7 Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
• Gypsum 13397-24-5 Not Listed
• Portland cement 65997-15-1 Not Listed
• Calcium monocarbonate 471-34-1 Not Listed
• Crystalline silica 14808-60-7 Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
• Gypsum 13397-24-5 Not Listed
• Portland cement 65997-15-1 Not Listed
• Calcium monocarbonate 471-34-1 Not Listed
• Crystalline silica 14808-60-7 Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
• Gypsum 13397-24-5 Not Listed
• Portland cement 65997-15-1 Not Listed
• Calcium monocarbonate 471-34-1 Not Listed
• Crystalline silica  14808-60-7   Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

United States - California

Environment
U.S. - California - Proposition 65 - Carcinogens List
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
• Gypsum  13397-24-5   Not Listed
• Portland cement  65997-15-1   Not Listed
• Calcium monocarbonate  471-34-1   Not Listed
• Crystalline silica  14808-60-7   Not Listed

Section 16 - Other Information

Revision Date  • 03/May/2018
Last Revision Date  • 03/May/2018
Preparation Date  • 03/May/2018
Disclaimer/Statement of  • The information herein is given in good faith but no warranty, expressed or implied,
Liability is made.

Key to abbreviations
NDA = No Data Available