

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
7200 N Hwy 63
Rochester, MN 55906
United States
www.rochesterpcp.com
info@rochesterpcp.com

Telephone (General) • 507-288-8850

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

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

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

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

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

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Calcium mon carbonate (471-34-1)	TWAs	Not established	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	Not established
Gypsum (13397-24-5)	TWAs	10 mg/m ³ TWA (inhalable particulate matter, listed under Calcium sulfate)	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
Portland cement (65997-15-1)	TWAs	1 mg/m ³ TWA (particulate matter containing no asbestos and <1%	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)

		crystalline silica, respirable particulate matter)		
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

- 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 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 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

- Follow best practice for site management and disposal of waste.

Exposure Controls

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	Solid concrete products of various shapes, sizes, and colors.
Color	Various	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
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

- No data available

Incompatible materials

- No data available

Hazardous decomposition products

- No data available

Section 11 - Toxicological Information

Information on toxicological effects

		Components
Gypsum (0.3% TO 0.8%)	13397-24-5	Acute Toxicity: Inhalation-Human TCLo • 194 g/m ³ 10 Year(s)-Intermittent; <i>Sense Organs and Special Senses:Olfaction:Other changes; Lungs, Thorax, or Respiration:Fibrosing alveolitis; Lungs, Thorax, or Respiration:Other changes;</i> Tumorigen / Carcinogen: Intraperitoneal-Rat TDLo • 450 mg/kg 3 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Tumorigenic:Tumors at site of application</i>
Crystalline silica (25.02% TO 69.6%)	14808-60-7	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; 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;</i> Multi-dose Toxicity: Inhalation-Rat TCLo • 80 mg/m ³ 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> Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm ³ ; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 µg/cm ³ ; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 50 mg/m ³ 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i>

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•Serious Eye Damage 1
Skin sensitization	OSHA HCS 2012•Skin Sensitizer 1
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) • 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.

Carcinogenic Effects				
	CAS	OSHA	IARC	NTP
Crystalline silica	14808-60-7	Not Listed	Group 1-Carcinogenic	Known Human Carcinogen
Crystalline silica as Silica, crystalline (general form)	NDA	Specifically Regulated Carcinogen	Not Listed	Not Listed

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

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

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
Calcium monocarbonate	471-34-1	Yes
Crystalline silica	14808-60-7	Yes
Gypsum	13397-24-5	No
Portland cement	65997-15-1	Yes

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