

SAFETY DATA SHEET

Section 1: Identification



1.1 Product Name: Ready Mix Concrete

1.2 Chemical Name/Synonyms: Concrete Ready Mix, Portland Cement Concrete, Ready Mix Grout, Ready Mix, Flowable Fill, Mortar Mix, Stabilized Sand, Limestone, Masonry Cement, Colored Concrete, and Portland Lime.

1.3 Company: Cement Products, Inc.
389 Park Avenue East
Mansfield, OH 44905

1.4 Telephone number: (419) 524-4342

Section 2: Hazards Identification

Hazard Classification: Skin Irritation Cat. 2; H315
Eye Damage Cat. 1; H318
Specific Target Organ Toxicity, Single Exposure, Cat. 3; H335
Carcinogenicity Cat. 1; H350 (inhalation)
Specific Target Organ Toxicity, Repeated Exposure, Cat. 1; H372 (inhalation)

Signal Word(s): Warning

Hazard Statements: Causes serious eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause cancer.

Hazard Pictograms:



Precautionary Statements:

P102 Keep out of reach of children.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338+P310 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 CENTRE or doctor/physician.

P302+P352+P333+P313 IF CONTACT WITH SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

P261+P304+P340+P312: Avoid breathing dust/ fumes, gas, mist, vapors, spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

P501 Dispose of contents/container to adequate product waste site.

Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Content%
Limestone (aggregates)	Not available	72608-12-9	0 - 80
Portland Cement	Not available	65997-15-1	1 - 30
Sand (aggregates)	Not available	14808-60-7	0 - 80
Silica	Not available	7631-86-9	-
Water	Not available	7732-18-5	-
Slag	Not available	69012-33-5	0 - 15
Fly Ash	Not available	68131-74-8	0 - 10
Silica Fume	Not available	69012-64-2	-
Hexavalent Chromium	Not available	18540-29-9	-
Calcium Oxide	Not available	1305-78-8	-
Quartz (aggregates)	Not available	14808-60-7	0 - 80

Section 4: First-Aid Measures

14.1 - Prolonged contact between fresh wet concrete and skin surfaces, eyes, and clothing may result in burns that are quite severe, including third-degree burns. If irritation persists, consult a physician.

For deep burns or large affected skin areas, seek medical attention immediately.

The **A-B-Cs** of fresh concrete's effect on skin are:

Abrasive Sand contained in fresh concrete is abrasive to bare skin.

Basic & Portland Cement is alkaline in nature, so wet.

Cautistic concrete and other cement mixtures are strongly basic (pH of 12 to 13). Strong bases-like strong acids are harmful, or caustic to skin.

Drying Portland Cement is hygroscopic-it absorbs water. In fact, Portland Cement needs water to harden. It will draw water away from any material it contacts-including skin. Irrigate eyes with Water. Wash exposed areas of the body with soap and water – change clothing if contaminated with wet concrete.

Irritation of the skin and burning sensation particularly when exposure is in of the skin previously subjected to abrasion or irritation. Open wounds and sores may be aggravated by exposure

Section 5: Fire-Fighting Measures

-Suitable extinguishing agents: Use an extinguishing agent suitable for the surrounding fire

-Unsuitable extinguishing agents: Do not use water jet or heavy stream of water-based extinguishers. This may spread fire.

-Specific hazards arising from the chemical: No specific fire or explosion hazard.

-Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides and metal oxide/oxides.

-Special protection actions for fire-fighters: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

-Special protective equipment for firefighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6: Accidental Release Measures

6.1 - Spill does not increase hazard Material can be retained until it hardens when it can be disposed of as a common waste.

Section 7: Handling and Storage

7.1 - Cement should be kept dry until it is mixed There is an exothermic action that takes place once the ingredients mix although that for the most part disperses usually during the mixers drive to the delivery point. That helps expedite the drying time upon placement.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters:

-Occupational Exposure Limits: Consult local authorities for acceptable exposure limits.

Chemical Name	OSHA PEL:	ACGIH TLV:	NIOSH REL:	MSHA PEL:
Limestone	-TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction -TWA: 15 mg/m ³ 8 hours. Form: Total dust	N/A	-TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction -TWA: 10 mg/m ³ 10 hours. Form: Total	N/A

Section 8: Exposure Controls/Personal Protection

Quartz	-TWA: 10 mg/m ³ / (%SiO ₂ +2) 8 hours. Form: Respirable -TWA: 250 MPPCF / (%SiO ₂ +5) 8 hours. Form: Respirable	Respirable TWA: 250 MPPCF / (%SiO ₂ +5) 8 hours. Form: Respirable	Respirable TWA: 250 MPPCF / (%SiO ₂ +5) 8 hours. Form: Respirable	Respirable TWA: 250 MPPCF / (%SiO ₂ +5) 8 hours. Form: Respirable
Calcium Oxide	5 mg/m ³	2 mg/m ³	N/A	N/A
Calcium Hydroxide	15 mg/m ³ (total dust) 5 mg/m ³ (respirable)	5 mg/m ³	N/A	N/A

Section 9: Physical and Chemical Properties

Form:	-Solid: grey or white powder
Odor:	-Odorless
Odor threshold:	-Not applicable
pH:	-12 - 13
Melting point/melting range:	-Not applicable.
Boiling point/boiling range:	-Not applicable
Flash point:	-Not applicable
Evaporation rate:	-Not applicable
Flammability:	-Not flammable or combustible

Upper/lower flammability or explosive limits:	-Not applicable
Auto ignition temperature:	-Not applicable
Danger of explosion:	-Not applicable
Vapor pressure:	-Not applicable
Vapor density:	-Not applicable
Relative density:	-Not applicable
Solubility in/Miscibility with water:	-Slight: 0.1% - 1%

Section 10: Stability and Reactivity

10.1 Reactivity: -Concrete is not reactive.

Section 11: Toxicological Information

11.1- Avoid contact between skin/eye and wet/moist concrete use of well-fitted butyl, alkali-resistant gloves or nitrile gloves is recommended Tight fitting goggles should be worn if there is a possibility of a concrete splash to avoid contact with the eyes.

Section 12: Ecological Information

12.1 Toxicity: -Harmful to aquatic life. Contact with water forms an alkaline solution. Avoid release to the environment.

Data for Calcium oxide: -96-hour LC₅₀ freshwater fish *Cyprinus carpio* = 1 070 mg/L (static).

-Chronic 46-day NOEC freshwater fish *Oreochromis niloticus* juvenile (fledging, hatching, weanling) = 100 mg/L.

12.2 Persistence and degradability: -Data not available.

12.3 Bio accumulative Potential: -Data not available.

12.4 Mobility in soil: -Data not available.

12.5 Other adverse effects: -Data not available.

Section 13: Disposal Considerations

13.1 Waste treatment methods: -The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers.

Section 14: Transport Information

14.1 - No information.

Section 15: Regulatory Information

15.1 - Freshly Mixed Unhardened Concrete does not have classification.

Section 16: Other Information

16.1 Wet concrete should only be used by knowledgeable persons. Using this product safely requires the recognition that Portland cement chemically reacts with water; and that some of the intermediate products of the reaction, during the setting stage, are the cause of the hazards when handling this product.

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of concrete (as commonly used); one 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.

The data furnished in this safety data sheet does not address hazards that may be posed by other materials mixed with concrete or products containing Portland cement.

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16.2 Abbreviations

-SDS – Safety Data Sheet

-OSHA – Occupational Safety and Health Administration

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-January 21, 2021