



Ready Mix Concrete

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Ready Mix Concrete.	
Common Names & Synonyms: Ready Mix Concrete, Concrete, Portland Cement Concrete, Grout, Grout Concrete, Shotcrete, Gunite, Pervious Concrete, Flowable Fill, Controlled Low Strength Material, Colored Concrete, Self Consolidating Concrete, Lean Base Concrete, Fiber Reinforced Concrete, Concrete Slurry.	
Manufacturer/Contact Info: Geneva Rock Products, Inc. 4393 Riverboat Rd, Taylorsville, UT 84123 www.genevarock.com	General Phone Number: (801) 281-7900 (Monday – Friday 8:00 AM to 5:00 PM MST) Emergency Phone Number: (801) 281-7901 (24 hours / day, 7 days / week)
Recommend Use: Structural Component in Various Construction Applications.	Restrictions of Usage: None known when used as intended.

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification (e.g., flammable liquid, category): Wet Concrete: <ul style="list-style-type: none"> - Acute Toxicity Oral - Category 4. - Acute Toxicity Dermal - Category 4. - Skin Corrosion / Irritation - Category 1B. - Skin Sensitization - Category 1. Hardened Concrete (dust): <ul style="list-style-type: none"> - Acute Toxicity Inhalation - Category 4. - Respiratory Sensitization - Category 1. - Specific Target Organ Toxicity Repeat Exposure - Category 1. - Carcinogenicity - Category 1A. 	Signal Word: Danger.
Hazard Statement: Wet (Plastic) Concrete: <ul style="list-style-type: none"> - Causes skin irritation. - Causes serious eye damage. - May cause an allergic skin reaction. 	Hardened Concrete: <ul style="list-style-type: none"> - May cause cancer (inhalation of respirable crystalline silica). - Causes damage to lungs through prolonged or repeated exposure (inhalation).
Pictograms: 	Precautionary Statements: <ul style="list-style-type: none"> - Prevention: <ul style="list-style-type: none"> o Do not breathe dust/fume/gas/mist/vapors/spray. o Use only outdoors or in a well-ventilated area. o Wear protective gloves, protective clothing, eye protection, and face protection. o Wash hands and exposed skin thoroughly after handling. o Do not eat, drink, or smoke when using this product. - Response: <ul style="list-style-type: none"> o If inhaled: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if symptoms persist. o If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. o If on skin: Wash with plenty of water and soap. If skin irritation occurs: Get medical attention. o If swallowed: Rinse mouth. Do not induce vomiting. Seek medical advice if you feel unwell. - Storage: <ul style="list-style-type: none"> o Store in a well-ventilated place. o Keep container tightly closed. - Disposal:



	<ul style="list-style-type: none"> ○ Dispose of contents/container in accordance with local, regional, national, and international regulations. - Wet (Plastic) Concrete – Prevention: <ul style="list-style-type: none"> ○ Do not get in eyes, on skin, or on clothing. ○ Wear waterproof gloves, boots, and protective clothing to prevent skin contact. - Wet (Plastic) Concrete – Response: <ul style="list-style-type: none"> ○ If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. ○ If skin irritation or rash occurs: Get medical attention. - Hardened Concrete – Prevention: <ul style="list-style-type: none"> ○ Cutting, grinding, or crushing may release dust. Avoid generating dust. ○ Wear respiratory protection when exposure limits may be exceeded. - Hardened Concrete – Response: <ul style="list-style-type: none"> ○ If exposed to dust and symptoms occur: Get medical attention.
Hazards Not Otherwise Classified (HNOC):	
- (When wet) Alkaline slurry may cause slippery conditions and burns on prolonged skin contact.	
Statement of Unknown Acute Toxicity:	
- This product contains no ingredients of unknown acute toxicity.	

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances/Mixtures:

<u>Chemical Name</u>	<u>Common Name & Synonyms</u>	<u>(CAS) Number</u>	<u>% by Weight (typical range)</u>
Crystalline silica (Quartz)		14808-60-7	0-5%
Portland Cement		65997-15-1	10-30%
Limestone (Calcium Carbonate)		1317-65-3	40-90%
Sand / Silica aggregate		14808-60-7	20-60%
Additives / fillers		Varies	<5%
Ash, flyash	<u>Flyash</u>	68131-74-8	0-25%
Water		7732-18-5	5-15%

Note:

- Ingredient concentrations are typical.
- This product contains no known impurities or stabilizing additives which contribute to its classification. Fly ash may contain trace amount of heavy metal
- See Section 8 for occupational exposure limits.

Trade Secret statement if any:
none

SECTION 4: FIRST AID MEASURES

Eye Contact:

- **Wet:**
 - Rinse immediately with water for several minutes.
 - Remove contact lenses if present.
 - Seek immediate medical attention for burns.
- **Hardened:**
 - Rinse eyes thoroughly if dust enters.
 - Seek medical attention if irritation persists.

Skin Contact:

- **Wet:**
 - Remove contaminated clothing immediately.
 - Rinse skin with water/shower.
 - Seek medical attention for burns or persistent irritation.
- **Hardened:**



- Wash skin with water to remove dust.
- Seek medical attention if irritation develops.

Inhalation:

- **Wet:**
 - Remove person to fresh air.
 - Seek medical attention if irritation or difficulty breathing occurs.
- **Hardened:**
 - Avoid dust inhalation.
- If dust inhaled and symptoms develop, seek medical attention.

Ingestion:

- Rinse mouth.
- Do not induce vomiting.
- Seek medical attention if feeling unwell.

Most Important Symptoms/Effects (Acute and Delayed):

- **Acute (Wet):**
 - Skin burns, eye irritation/damage, dermatitis, sensitization.
- **Acute (Hardened):**
 - Dust may cause mild eye or respiratory irritation.
- **Delayed:**
 - Chronic respiratory effects from dust/silica.

Note to Physician:

- Treat symptomatically. In cases of exposure, remove from source and seek medical attention. For eye or skin contact, rinse thoroughly with water. For inhalation, move to fresh air and provide oxygen if necessary. For burns, do not attempt to remove material from skin; seek immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

- Use water spray, dry chemical, foam, or carbon dioxide for surrounding fire. Product itself is non-flammable.

Specific Hazards:

- None; may generate dust when handled.

Special PPE or Other Precautions for Firefighters:

- Wear protective clothing and equipment suitable for surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions / Protective Equipment:

- Avoid contact with wet concrete.
- Use protective clothing, gloves, eye and face protection.
- Prevent unnecessary exposure.
- Evacuate area if large spill or uncontrolled release.
- Consult safety personnel or experts as needed.

Environmental Precautions:

- Prevent material from entering drains, sewers, or waterways.

Method for Containment and Cleanup:

- **Dry material:**
 - Sweep or shovel into suitable container.
- **Wet material:**
 - Contain to prevent spread; allow to harden before disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling and Use:

- **Wet:**
 - Avoid skin contact.
- **Hardened/Dry:**
 - Avoid creating dust.
 - Use gloves, eye protection, and respiratory protection if needed.



Conditions for Safe Storage: <ul style="list-style-type: none"> - Store in a cool, dry, well-ventilated area. - Keep containers closed.
Incompatibilities: <ul style="list-style-type: none"> - Avoid strong acids, oxidizers, or other reactive chemicals.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Portland Cement	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)	1 mg/m ³ (respirable fraction)	10 mg/m ³ (TWA)
Crystalline Silica (Quartz, Cristobalite, Tridymite – respirable)	50 µg/m ³ (PEL as respirable crystalline silica)	0.025 mg/m ³ (respirable fraction)	0.05 mg/m ³ (respirable fraction)
Particulates Not Otherwise Classified (PNOCs)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)	10 mg/m ³ (total) 5 mg/m ³ (respirable)
Hydrogen Sulfide (if present in trace amounts)	20 ppm (ceiling) 50 ppm (peak, 10 min max)	1 ppm (TWA) 5 ppm (STEL)	10 ppm (ceiling)

Legend: NE = Not Established; PEL = Permissible Exposure Limit; TLV = Threshold Limit Value; REL Recommended Exposure Limit; TWA = Time-Weighted Average; STEL=Short-term Exposure Limit
Engineering and Administrative Controls: <ul style="list-style-type: none"> - Provide local exhaust or general ventilation to control airborne dust. - Use wet methods or vacuum systems when cutting, drilling, or grinding.
Personal Protective Equipment (PPE): <ul style="list-style-type: none"> - Eye/Face: <ul style="list-style-type: none"> o Safety glasses with side shields or goggles; face shield during cutting/grinding. - Skin: <ul style="list-style-type: none"> o Impervious gloves, long sleeves, full-length pants. - Respiratory: <ul style="list-style-type: none"> o NIOSH-approved respirator for dust/silica if exposure exceeds limits (N95, P95, or P100). - Other: <ul style="list-style-type: none"> o Safety boots, hard hat, and additional PPE as required.
General protective and hygienic measures: <ul style="list-style-type: none"> - Use with adequate ventilation. Avoid dust generation. Wash hands before breaks and after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray viscose with graded size aggregate
Odor:	Not Applicable
Odor Threshold:	Not Applicable
pH:	Alkaline when wet (11–13)
Melting Point/Freezing Point:	Not Applicable
Initial Boiling Point and Boiling Range:	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Flammable
Upper/Lower Flammability or Explosive Limits:	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Relative Density:	~1.5- 3.0 (concrete mix)
Solubility:	Slightly soluble in water
Partition coefficient (n-octanol/water):	Not Applicable
Auto-ignition Temperature:	Not Applicable
Decomposition Temperature:	No test data available
Viscosity:	Not Applicable



SECTION 10: STABILITY AND REACTIVITY

Reactivity:

- Not reactive under normal conditions.

Chemical Stability:

- Stable under normal storage and use.

Possibility of Hazardous Reactions:

- No dangerous reactions known under normal conditions of use.

Conditions to Avoid:

- Avoid contact with incompatible materials; avoid excessive moisture when storing dry material.

Incompatible Materials:

- Strong acids; aluminum metal (wet concrete can generate hydrogen).

Hazardous Decomposition Products:

- None known under normal use. High heat may release crystalline silica.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

- **Eye contact:**
 - o Contact with wet or dry concrete can cause severe eye irritation or burns.
- **Skin contact:**
 - o Wet concrete can cause severe skin irritation or burns; dry powder may cause irritation.
- **Inhalation:**
 - o Inhalation of dust from dry concrete may irritate respiratory tract; wet concrete may release alkaline mist.
- **Ingestion:**
 - o Not expected under normal use; swallowing may cause severe burns to mouth, throat, and stomach.

Most Important Symptoms (Acute & Delayed):

- Wet concrete: skin/eye burns and dermatitis. Hardened concrete dust: respiratory irritation, lung effects.

Effects of Overexposure / Chronic Effects:

- Prolonged inhalation of respirable crystalline silica dust may cause silicosis or other lung damage.

Toxicity data (LD₅₀/LC₅₀):

- No acute toxicity data available for this mixture or its ingredients.

Carcinogenicity:

- Respirable crystalline silica listed by IARC/NIOSH/OSHA as a carcinogen.

Other Information:

- No data available for acute toxicity values; hazards primarily mechanical/irritant.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

- Not expected to be harmful to aquatic life. Large releases may increase suspended solids.

Persistence & Degradability:

- Mineral – not biodegradable.

Bioaccumulation Potential:

- Not Expected.

Mobility in Soil:

- Not mobile once set/hardened.

Other Adverse Effects:

- None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

- Dispose of in accordance with local/regional regulations. May be used as fill where allowed.
- Wet concrete should be allowed to harden before disposal.

SECTION 14: TRANSPORT INFORMATION



DOT Classification:

- Not regulated as a hazardous material.

UN Number / Proper Shipping Name:

- Not applicable.

SECTION 15: REGULATORY INFORMATION

OSHA Hazcom:

- Classified as hazardous due to respirable crystalline silica.

Other Regulations:

- May contain substances listed by IARC or NTP (respirable crystalline silica).

SECTION 16: OTHER INFORMATION

Prepared By: Ryan Hymas

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Approval Date or Revision Date: December 18, 2025

Date Of Previous SDS: January 23, 2025

Other Information:

Concrete should only be used by knowledgeable persons. Portland cement reacts chemically with water, and some of the intermediate products during the setting stage are the cause of the hazards when handling this product. Users without prior experience should obtain proper training before use. This SDS does not address hazards that may be posed by other materials mixed with concrete; users should review other relevant SDSs before working with concrete or cement products.

Disclaimer:

The information provided in this Safety Data Sheet is believed to be accurate and reliable as of the date of issue. However, no warranty or guarantee, express or implied, is made regarding its accuracy or completeness. The information is provided for the purpose of occupational health and safety and is not intended to represent any guarantee of the product's properties. Users are responsible for ensuring that their activities comply with all applicable laws and regulations. The company assumes no liability for misuse of the product.