

SAFETY DATA SHEET

SECTION I - MANUFACTURER'S IDENTITY

NAME: READY-MIX CONCRETE COMPANY, LLC.
ADDRESS: 4010 19th Street N.W.

PHONE: 507-289-4022
CITY: ROCHESTER, MN 55901

SECTION II - HAZARDOUS INGREDIENTS/COMPONENTS

FORMULA: Mixtures of Portland or blended cement-concrete aggregates & chemicals admixtures

PORTLAND AND BLENDED CEMENTS:

3CaO•SiO (CAS#12168-85-3) 4CaO•Al₂O₃•FE₂O₃ (CAS#12068-35-8)
2CaO•SiO (CAS#110034-77-2) CaSO₃ 2H₂O (CAS#7778-18-9)
3CaO•Al₂O₃ (CAS#23042-78-3) Plus Traces of CaO, MgO, K₂SO₄, and Na₂SO₄.

OTHER INGREDIENTS: Concrete aggregates, inert gravel, sand, rocks, and admixtures, which may include fly ash, granulated slag and very small amounts of organic and inorganic materials.

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY AND HEALTH EFFECTS: **WARNING: INJURIOUS TO EYE, CAUSES SKIN IRRITATION. READ THIS WARNING BEFORE USING.**

SKIN/EYE CONTACT: Fresh ready-mixed concrete has an alkalinity level of pH12 to pH13, and therefore may cause irritation and alkali burns, particularly when exposure is an area of skin previously subjected to abrasion or irritation. Prolonged or repeated contact may cause allergic dermatitis in sensitive individuals. Skin contact may cause local irritation of the affected area. Pre-existing skin conditions may be aggravated by exposure.

INGESTION: Unlikely. May cause irritation.

INHALATION: Fresh ready-mixed concrete does not pose an inhalation hazard. However, sawing, grinding, cutting, drilling, or otherwise disturbing hardened concrete may contribute to elevated levels of airborne respirable silica dust, which may cause silicosis. Always use appropriate respiratory protection in dusty environments.

EMERGENCY AND FIRST AID PROCEDURES: **DANGER: MAY CAUSE BURNS TO EYES AND SKIN. READ THIS WARNING BEFORE USING.**

SKIN CONTACT: Wash skin with large amounts of soap and clean water. For minor irritation, apply a lanolin-containing cream to skin after washing. Contact a physician if persistent or severe irritation or discomfort occurs.

EYE CONTACT: Contact a physician immediately. Flush eyes with large amounts of clean water for at least 15 minutes.

INGESTION: Due to the nature of this material, it is unlikely that it will be ingested. If this does occur, remove individual from area. If the individual is conscious, two or three glasses of milk or water should be provided to dilute stomach contents. Do not induce vomiting. Contact a physician or poison control center.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

IF SPILLED: Spill does not increase hazard.

WASTE DISPOSAL METHOD: Material can be retained until hardens. Then it can be disposed of as common waste.

PLASTIC (FRESH) READY MIXED CONCRETE: Use barrier creams, gloves, boots and clothing to protect the skin from prolonged contact with plastic (fresh) ready-mix concrete. Particularly avoid abrasion of the skin in contact with unhardened plastic concrete. Precautions must be observed because cement burns occur with little warning - little heat is sensed. Always wear eye protection when placing plastic (fresh) ready-mixed concrete.

HARDENED CONCRETE: Respirable dust may be generated when hardened concrete is subjected to mechanical forces, such as in demolition work and surface treatment (sawing, sanding, grinding, grooving, chiseling, etc.). To the extent practical, use wet methods to minimize airborne dust levels when sawing or using other concrete renovation methods. Wear an appropriate and approved respirator when the work generates visible airborne dust. Providing exhaust ventilation to remove the dust to an unoccupied area when sawing or using other renovation methods may also contribute to reduced dust levels. Persons not wearing appropriate respiratory protective equipment should be excluded from dusty areas until the demolition work has been completed and the dust has been cleared. When clearing renovation or demolition refuse, avoid re-entraining dust. Use wet methods or a vacuum with a high efficiency filter to remove dust.

CALL READY-MIX CONCRETE COMPANY, LLC. FOR SDS SHEETS 507-289-4022

SECTION IX DISCLAIMER

THE INFORMATION IN THIS SDS CONCERNING HEALTH HAZARD DATA WAS OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, REGARDING ITS ACCURACY OR CORRECTNESS. ONCE THIS PRODUCT LEAVES THE READY-MIX CONCRETE COMPANY, LLC. PLANT, THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

* SOLVENTS (Combustible and Flammable Liquids)

Solvents are a class of liquids to dissolve other solid materials. They may be found in many solutions. They are substances to be treated with care and respect.

PROPERTIES OF SOLVENTS

Many solvents are flammable; In general, solvents evaporate quickly; Evaporation speeds with heat; When exposed to flame, chlorinated hydrocarbons can decompose generating hydrogen chloride and phosgene.

HEALTH EFFECTS

1. Skin disorders: Repeated skin contact can cause a rash or irritation (dermatitis) as well as dry skin to the point of cracking and bleeding. Solvents should never be used to wash or clean skin. Some solvents can be absorbed both through intact and open skin. Particular attention should be paid to contact with these materials. This information will be noted on the Material Safety Data Sheet.

2. Eye injury: Solvent vapors can irritate the eyes. Direct splashing of the liquid into the eyes may cause serious burns.

3. Inhalation: Solvents act as central nervous system depressants. General symptoms include: headache, dizziness, nausea. Extreme overexposure situations could lead to unconsciousness. Solvent vapors can also act as respiratory irritants. Chronic overexposure to some solvents may cause permanent injury to the liver or kidneys, or other internal systems.

Hexavalent Chromium [Cr(VI)] Wet Portland cement can damage the skin because it is caustic, abrasive, and absorbs moisture. Portland cement also contains trace amounts of hexavalent chromium [Cr(VI)], a toxin harmful to the skin. Dry Portland cement is less hazardous to the skin because it is not as caustic as wet cement.

PRECAUTIONS / CAUTIONS

1. Wear solvent resistant gloves to prevent repeated or prolonged skin contact.
2. In operations where the liquid could splash into the eyes, chemical goggles or a face Shield should be worn. In case of eye contact, FLUSH THE EYES WITH WATER FOR AT LEAST 15 MINUTES while holding the eyelids open.
3. In operations where the liquid could splash onto skin, appropriate protective clothing, such as a solvent resistant apron, should be worn.
4. If skin contact should occur, FLUSH the area thoroughly for at least 15 minutes.

SECTION 1: IDENTIFICATION

Product Identifier Product Name: Lafarge Ready Mix Concrete (Concrete)

Synonyms: Ready Mix Concrete, Concrete Ready Mix, Portland Cement Concrete, Ready Mix Stucco, Ready Mix Grout, Ready Mix, Concrete, Freshly Mixed Concrete, Colloidal Concrete, Permeable Concrete, Shotcrete, Gunite, Polymer-Portland Cement Concrete, Colored Concrete, Flowable Fill, Roller-Compacted Concrete, Fiber Reinforced Concrete, Weathermix, UltraCurbTM, UltraDriveTM, UltraFlo-FIITM, UltraHorizontalTM, UltraFootingTM, UltraPatioTM, UltraStampTM, UltraTiltTM, UltraVerticalTM, AgrifargeTM Plus, AgrifargeTM RP, AgrifargeTM 20, 25, 30, 32, ArteviaColorTM, ChronoliaTM, ExtensiaTM, Agilia® Screed C.

Note: This SDS covers many types of Concrete. Individual composition of hazardous constituents will vary between types of Concrete.

Intended Use of the Product

Concrete is widely used as a structural component in construction applications.

Name, Address, and Telephone of the Responsible Party

Company: Lafarge North America Inc., 8700 West Bryn Mawr Avenue, Suite 300, Chicago, IL 60631; Information: 773-372-1000 (9am to 5pm CST); email: SDSinfo@Lafarge.com; Website: www.lafarge-na.com

Emergency Telephone Number Emergency number: 1-800-451-8346 (3E Hotline)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US): Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Carc. 1A H350, STOT SE 3 H335, STOT RE 1 H372

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US):



Signal Word (GHS-US): Danger

Hazard Statements (GHS-US): H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H335 - May cause respiratory irritation
H350 - May cause cancer (Inhalation) H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary Statements (GHS-US): P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing, face protection, eye protection.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment (see Section 4).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container according to local, regional, state, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: Inhalation can cause serious, potentially irreversible lung/respiratory tract tissue damage due to chemical (caustic) burns, including third degree burns. Individuals with lung disease (e.g. bronchitis, emphysema, COPD, pulmonary disease) or sensitivity to hexavalent chromium can be aggravated by exposure.

Unknown Acute Toxicity (GHS-US) Not available