

MATERIAL SAFETY DATA SHEET

READY MIXED CONCRETE COMPANY

6200 Cornhusker Highway
Lincoln, NE 68529

Emergency Phone: 402-434-1844

PRODUCT NAME: Freshly mixed unhardened concrete

CHEMICAL NAME: Same as above

CHEMICAL FAMILY: Calcium Salts

Mixtures of Portland or blended cements, concrete aggregates and chemical admixtures.

FORMULA:

Portland and Blended Cements:	$3\text{CaO} \cdot \text{SiO}_2$	(CAS # 12168-85-3)
	$2\text{CaO} \cdot \text{SiO}_2$	(CAS # 10034-77-2)
	$3\text{CaO} \cdot \text{Al}_2\text{O}_3$	(CAS # 23042-78-3)
	$4\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Fe}_2\text{O}_3$	(CAS # 12068-34-8)
	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	(CAS # 7778-18-9)

Plus traces of CaO, MgO, K_2SO_4 , and Na_2SO_4

Concrete Aggregates: Inert gravel, sand and rocks.

Admixtures: May include fly ash, granulated slag and very small amounts of organic and inorganic materials which have no effect on the hazards associated with the use of the product.

PHYSICAL/CHEMICAL CHARACTERISTICS: Gray, plastic, flowable, granular mud, and odorless

PHYSICAL HAZARDS:

- Acute wet plastic, unhardened concrete, can dry the skin and cause alkali burns (cement dermatitis).
- (Cement may contain traces of hexavalent chromium.)
- Flammability – none
- Solubility in water – slight (0.1 – 1%)
- Specific Gravity ($\text{H}_2\text{O} = 1$)

HEALTH HAZARDS:

- Signs and symptoms of exposure – dried skin – alkali burns (dermatitis)
- Medical conditions aggravated by exposure
- Infection – remove from exposure those individuals who develop sensitivity to chromate

ROUTE OF ENTRY: ■ Skin contact or absorption

*AIR EXPOSURE
LIMIT(S):* ■ Maximum 50 m ppcf per yard
 ■ Stability unstable, product sets and hardens in 2 to 8 hours and is
 ■ no longer hazardous
 ■ Hazardous polymerization will not occur

CARCINOGENCITY: ■ None

SPILLAGE: ■ Does not increase hazard, material can be retained until it hardens
 when it can be disposed of as common waste.
 ■ Avoid direct or indirect contact with freshly mixed ready mixed
 concrete.

*CONTROL
MEASURES:* ■ Personal protective equipment – use barrier creams, wear tight
 fitting goggles.
 ■ When concrete may splash, wear rubber boots high enough to
 prevent concrete from flowing into them, waterproof gloves, long
 sleeved shirt, water resistant clothing.
 ■ Remove saturated clothing or shoes and rinse with running water
 until soapy feeling disappears.
 ■ QUICK METHOD – rinse with water, then rinse with diluted
 vinegar, rinse again with water.
 ■ If irritation persists, seek prompt medical attention.

*EMERGENCY AND
FIRST AID
PROCEDURE:* ■ Avoid contact with skin, either directly or indirectly or
 through saturated clothing or shoes.
 ■ Wash affected areas promptly with soap and water.
 Failure to do so may cause skin irritation or first second
 or third degree burns.
 ■ If redness or irritation persists, seek prompt medical
 attention.
 ■ If any wet concrete comes into contact with the eye,
 EYES: rinse immediately with water for 15 minutes and seek
 prompt medical attention.

Ready Mixed Concrete Company believes the data contained herein as factual and the opinions expressed are those of qualified individuals. The data is offered for your consideration, investigation and verification.