

READY MIX CONCRETE

MATERIAL SAFETY DATA SHEET

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200 Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As used on label and List)

Ready-Mixed Concrete (Unhardened)

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name See Note A at bottom of sheet	Emergency Telephone Number See Note A at bottom of sheet
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information See Note A at bottom of sheet
	Date Prepared 1-01-95

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specify Chemical Identity Common Name(s))	Other Limits
OSHA PEL N/A ACGIH TLC N/A	Recommended None % (optional)

Formula - Mixtures of portland or blended cements, concrete aggregates and chemical mixtures.

Portland and Blended Cements:

3CaO-SiO₂ (CAS # 12168-85-3)

2CaO-SiO₂ (CAS # 10034-77-2)

3CaO-Al₂O₃ (CAS # 23042-78-3)

4CaO-Al₂O₃Fe₂O₃ (CAS # 12068-35-8)

CaSO₂H₂O (CAS # 7778-18-9)

Plus traces of CaO, MgO, K₂SO₄ and Na₂SO₄

Other Ingredients: Concrete Aggregates: Inert Gravel, sand and rocks.
Admixtures: May include fly ash, granulated slag and very small amounts of organic materials which have no effect on the hazards associated with the use of the product.

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O-1)	2.28-2.42
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR-1)	N/A	Evaporation Rate (Butyl Acetate - 1)	N/A
Solubility in Water	Negligible (0.01 to 1%)		
Appearance and Odor	Gray, plastic, stiff to flowable, granular composite. Faint Odor.		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	N/A	LEL	N/A	UEL	N/A
Extinguishing Media	N/A						
Special Fire Fighting Procedures	N/A						
Unusual Fire and Explosion Hazards	None						

OSHA 174 Sept. 1985

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	Yes	
Incompatibility (Materials to Avoid)	None		
Hazardous Decomposition or Byproducts	None		
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

MAY CAUSE



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Section VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	No	Yes	No

Health Hazards (Acute and Chronic)

Acute - Wet plastic, unhardened concrete can dry the skin and cause alkali burns.

Chronic - Hypersensitive individuals an allergic dermatitis, Portland cement may contain trace amounts of chromium.

Carcinogenicity	NTP?	IARC Monograms?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure

Irritation of skin and burning sensation, particularly when exposure is in an area of skin previously subjected to abrasion or irritation.

Medical Conditions
Generally Aggravated by Exposure

Open wounds or sores.

Emergency and First Aid Procedures

Wash or flush affected areas promptly with plenty of clean, fresh water. Change clothing if

contaminated with wet concrete. If irritation persists, get medical attention.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken if Case Material is Released or Spilled

Normal clean-up prior to initial set: Spill does not increase hazard.

Waste Disposal Method

Shovel into containers and dispose of as common waste.

Precautions to Be Taken in Handling and Storing

Avoid contact between skin surfaces and wet concrete.

Protect eyes from splatter during placement.

CHEMICAL
SPLASH



GOGGLES

GLOVES

Other Precautions

Precautions must be observed because irritation/burns occur with little warning - little heat is sensed.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Not required.

Ventilation	Local Exhaust	Special
	None	None
	Mechanical (General)	Other
	None	N/A

Protective Gloves

Yes - Waterproof

Eye Protection

Yes - goggles preferred

Other Protective Clothing or Equipment

Waterproof boots, long sleeved shirt and full-length trousers should be worn.

Work Hygienic Practices

Avoid contact between skin/eyes and wet/moist concrete.

Section IX - Working Safely With Concrete

Caution! Special precaution are necessary when working with ready-mix concrete. Prolonged contact between fresh concrete and skin, eyes and clothing may cause skin irritation or burns. All cement products are highly caustic and may result in skin injury if used improperly.

TAKE THE FOLLOWING SIMPLE SAFETY PRECAUTIONS WHEN USING THIS PRODUCT.

AVOID CONTACT WITH SKIN AND WASH EXPOSED SKIN AREAS PROMPTLY WITH WATER, SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

1. Wear full-length trousers and a long sleeved shirt buttoned at the sleeves and neck.
2. Wear rubber boots high enough to prevent concrete from flowing into them. Tuck pants into boots. Tops of boots should be tight.
3. Wear waterproof gloves. Wear waterproof pads to protect knees and elbows from moisture and abrasion.
4. Wear safety glasses or goggles for eye protection. IN CASE OF EYE CONTACT IMMEDIATELY FLUSH WITH PL ENTY OF CLEAN, FRESH WATER.
5. KEEP CONCRETE OFF SKIN. WASH SKIN PROMPTLY AND THOROUGHLY AFTER CONTACT. Use plenty of clean, fresh water.
6. KEEP CONCRETE OFF CLOTHING. Skin injury may result from clothing that has become wet. WET CLOTHING SHOULD BE RINSED IMMEDIATELY WITH CLEAN WATER TO PREVENT CONTINUED CONTACT WITH SKIN. CHANGE CLOTHING IF SKIN IS IRRITATED.
7. Keep children away from work area.
8. Advise all persons that may come in contact with this product of the above safety precautions. Call Smith Concrete at 800-371-7441 if additional information is required.

The Shelly Company - Ready Mix Division

Note A (Manufacturer and Contact Information)

All Ohio Ready Mix	419-841-3435 Dispatch
Medina Supply Company	800-341-6808 Dispatch
Smith Concrete	800-936-4937 Dispatch