

**MATERIAL SAFETY DATA SHEET**

**U-MIX PRODUCTS COMPANY**  
6200 Cornhusker Highway  
Lincoln, NE 68507

Effective Date July 1, 1999

Emergency Telephone Number (402) 434-1866

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**PRODUCT NAME:** U-Mix Concrete Mix                      U-Mix Sand Mix  
                          U-Mix Masonry Mix                      U-Mix Rip Rap

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**CHEMICAL NAME:** Portland Cement, and Silica Sand

**CHEMICAL FAMILY:** Calcium Salts and Quartz

**FORMULA:**            3CaO.SiO<sub>2</sub>                      2CaO.SiO<sub>2</sub>                      3CaO.Al<sub>2</sub>O<sub>3</sub>                      4CaO.Al<sub>2</sub>O<sub>3</sub>Fe<sub>2</sub>O<sub>3</sub>  
                          Plus traces of CaO, MgO, K<sub>2</sub>SO<sub>4</sub>, and Na<sub>2</sub>SO<sub>4</sub>

**AGGREGATES:**            Inert Gravel and Sand SiO<sub>2</sub>.  
                                  Admixtures may include Fly Ash which has  
                                  no affect on the hazards associated with  
                                  the use of the product.

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**PHYSICAL/CHEMICAL CHARACTERISTICS:**            Granular - Powder - Odorless

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**PHYSICAL HAZARDS:**            Portland Cement forms alkaline, caustic compounds when mixed  
                                  into concrete and mortar. Skin contact may result in  
                                  irritation or burning (Cementdermatitis).

Explosion-Flammability Hazard: None  
Specific Gravity (H<sub>2</sub>O = 1) 3.0-3.2

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**HEALTH HAZARD DATA:**            Portland Cement may cause eye irritation and skin irritation  
                                  to those with sensitive skin.  
                                  In case of eye contact, flush immediately with clean water  
                                  and consult a physician promptly.  
                                  In case of skin contact, wash thoroughly immediately after contact.  
                                  Any lung disorder may be aggravated by exposure to silica.  
                                  Continued inhalation of respirable sized silica over a long  
                                  period of time without respiratory protection could increase  
                                  possibility of Silicosis.

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**ROUTE OF ENTRY:** Skin contact or absorption and inhalation.

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**REACTIVITY DATA:** Material is stable. Hazardous polymerization will not occur.  
                                  Reacts with water to form stable hydrated calcium silicates and  
                                  aluminates.

Incompatibility: Material to avoid - acids

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**PRODUCT:** U-Mix Concrete Mixes

**SPILLAGE PROCEDURES:** If product is dry, prevent material from becoming airborne. Do not let cement exceed 50 MppCF. If product is wet, material may be retained until it hardens when it can be disposed of as common waste. Avoid direct or indirect contact with product freshly mixed with water. Waste disposal in approved landfill.

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**SPECIAL PRODUCT INFORMATION:** NIOSH approved nuisance dust respirator and when possible, ample mechanical ventilation. Personal Protection Equipment--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.

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**SPECIAL PRECAUTIONS:** Keep Portland Cement and freshly-mixed Portland Cement products out of reach of children.

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