

**MATERIAL SAFETY DATA SHEET  
(OSHA 29 CFR 1910.1200)**

**FOR PORTLAND CEMENT CONCRETE  
(FRESHLY MIXED UNHARDENED CONCRETE)**

**SECTION 1 - IDENTITY**

**Manufacturer's Name and Address:**

Milpitas Materials Company  
1125 North Milpitas Blvd.  
Milpitas, CA 95035

Informational Telephone Number  
(408) 262-0656

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Product Name Freshly Mixed Unhardened Concrete

Common Names

Concrete  
Ready Mix

Ingredients

Portland Cements - CAS# 65997-15-1  
Sand & Gravel - None  
Quartz - CAS# 14808-60-7  
Fly Ash - CAS# 68131-74-B  
Water - CAS# 77321-85

This material may also contain trace amounts of heavy metals.

Portland Cement Concrete contains Portland Cement which, when dry only, is classified by OSHA (29 CFR 1910.1000, Table 23;) MSHA (30 CFR 55.5-1 Ref.2), AOGIH (TLVs for 1984-85, Appendix D) only as nuisance dusts. Other concrete materials include fine or coarse aggregates.

|                           |          |
|---------------------------|----------|
| Portland Cement           | 30 mppcf |
| Aggregate (Sand & Gravel) | N/A      |
| Quartz                    | 30 mg/m  |
| Fly Ash                   | N/A      |

**SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS**

Portland Cement Concrete utilizes Portland Cement as a hydraulic binder. The concrete is a wet mass consisting of a specific blend of Portland Cement, sand, gravel, and occasional admixtures having little or no odor.

BOILING POINT: N/A

SPECIFIC GRAVITY 2.39

VAPOR PRESSURE: N/A

MELTING POINT: N/A

VAPOR DENSITY (AIR = 1): N/A

EVAPORATION RATE : N/A (ETHER =1)

#### **SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Portland Cement Concrete is noncombustible and not explosive.

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#### **SECTION V - REACTIVITY DATE**

**CONDITIONS CONTRIBUTING TO INSTABILITY:** None

**INCOMPATIBILITY:** Freshly mixed unhardened concrete forms a calcium silicate binder during hydration. During hydration the calcium silicate is considered alkaline.

**HAZARDOUS REACTION/DECOMPOSITION/COMBUSTION PRODUCTS:** Concrete will not decompose into hazardous by-products and will not polymerize.

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#### **SECTION VI - HEALTH HAZARD DATA**

**EYE:** Contact with the eye will cause Irritation. Irrigate immediately and repeatedly with clean water.

**SKIN:** Repeated and/or prolonged contact with the skin will cause dry skin and may cause an alkali irritation.

**INHALATION:** It is not expected that this product will be inhaled during normal usage and exposures.

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#### **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

During mixing, placing and finishing of Portland Cement Concrete, protective goggles, clothing, gloves, and boots should be worn to avoid prolonged eye or skin contact. After work is completed, a worker should wash all exposed areas with soap and water. Respirable dust may be generated when hardened concrete is subjected to mechanical forces such as demolition work or surface treatments (sanding, grooving, chiseling, etc.).

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#### **SECTION VIII - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** No respiratory measures are called for during the normal manufacturing or placement of this material. During the mechanic processing of dry, hardened concrete ventilation and dust collecting equipment or a dust control method, such as wetting down the material, can, if necessary, be used to control and limit airborne dust to safe levels. Specific individual protection is recommended through the use of approved respirators during this type of exposure.

**EYE CONTACT:** Specific individual protection is recommended through the use of OSHA, MSHA, or NIOSH approved tight fitting goggles.

**SKIN CONTACT:** Gloves should be worn.

**WORK/HYGIENIC PRACTICES:** Wash face and other exposed areas of skin with mild soap and water.

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#### **SECTION IX - SPILL, LEAK, AND DISPOSAL PRACTICES**

Steps to be taken in the event this material is released or spilled:

Persons involved in the cleanup process should first observe precautions defined in Section VII of this MSDS. Wet concrete should be removed from roads or other surfaces where it may interfere with traffic. Wet concrete should not be allowed to spill into storm sewers where it can harden and clog the sewer flow.

None of the components of this product are subject to the reporting requirements of Title III, of SARA 1986 and 40 CFR 372.

**Waste disposal method:**

Freshly mixed unhardened concrete can be retained until it hardens and can then be disposed of in compliance with all applicable federal, state, and local laws and regulations. Caution should be exercised in the handling of hardened concrete to reduce the generation of respirable dust.

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#### **SECTION IX - PROPOSITION 65 WARNING**

Because some constituent ingredients of freshly mixed unhardened concrete may contain chemicals identified by the state of California as being carcinogenic, we are required by Proposition 65 to provide the following warning:

**THIS PRODUCT CONTAINS DETECTABLE AMOUNTS OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.**

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