

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME:

BUFFALO REDI-MIX CO.

ADDRESS:

PO BOX 710, BUFFALO, NY 14224

DATE PREPARED:

REVISED: 11/17/03 Supersedes 01/01/94

IDENTITY: Unhardened Ready-mix Concrete INFORMATION PHONE # (716) 826-7310

TRADE NAME: Ready-mix Concrete EMERGENCY PHONE # (716) 826-7310

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Material	(CAS #)	%	ACGIH(TLV)	OSHA (PEL)
Portland Cement	65997-15-1	---	10 mg/m ³ (total dust)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
Crystalline Silica (from sand and limestone aggregate)	14808-60-7	---	0.1 mg/m ³ (respirable quartz)	<u>10mg/m³</u> % SiO ₂ +2 (respirable quartz)
Fly Ash	68131-74-8	---	---	---

PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance: Gray/Flowable
Boiling Point: NA
Vapor Pressure (mm Hg): NA
Density (air=1): NA

Specific Gravity (H₂O=1): 2.68-2.85
% Volatile by Volume: NA
Evaporation Rate: NA
Solubility in water (%): 0.1 to 1% (slight)
pH: 9-11

FIRE AND EXPLOSION HAZARD INFORMATION

Flash point (method used): NA
Extinguishing media: None
Special fire fighting procedures: None
Unusual fire or explosion hazards: None

Flammable Limits: LEL - NA UEL - NA

REACTIVITY INFORMATION

Stability: Stable
Materials to avoid: Unhardened ready-mix concrete is alkaline and may react with acids to produce an exothermic reaction, which may generate toxic gases/vapors.

Hazardous decomposition or byproducts: None
Hazardous Polymerization: Will not occur

SAFE HANDLING AND USE (SPECIAL PROTECTION INFORMATION)

Ventilation: Normally not required.

Respiratory Protection: Normally not required due to moisture of material.

Protective Gloves: Impervious gloves (rubber, neoprene, PVC) are recommended to protect skin from prolonged contact with unhardened concrete.

Eye Protection Needed: Barrier creams, gloves, boots, and clothing to protect the skin from prolonged contact with concrete and protect previous skin abrasions.

Other Protection Needed: Barrier creams, gloves, boots, and clothing to protect the skin from prolonged contact with concrete and protect skin abrasions.

HEALTH HAZARD INFORMATION

Acute and Chronic Effects by Route of Exposure:

Inhalation: Not likely since material is not dusty.

Skin: Wet unhardened concrete will dry the skin and may cause alkali burns.

Ingestion: Not likely, but is possible from splash of wet concrete.

Eyes: splash of wet concrete will cause irritation to eyes and may cause alkali burns.

Emergency First Aid:

Inhalation: Move individual to well-ventilated area. If necessary, call a physician.

Skin: Wash exposed areas thoroughly with soap and water.

Ingestion: If excessive amount is ingested, dilute with water. Treat as alkali poison. Call a physician.

Eyes: Wash eyes thoroughly with warm water for at least 15 minutes. If irritation persist, seek medical attention.

Toxicity: None

Carcinogenicity: Unhardened Ready-mix concrete is not listed by the National Toxicology Program (NTP) or the International Agency for Research on Cancer (IARC) as a carcinogen. However, crystalline silica, the main component in sand and a trace element in the crushed limestone aggregate in this product, is listed as a Group 1 carcinogen (carcinogenic to humans) by the IARC and is a reasonable anticipated human carcinogen by the NTP

Exposure to crystalline silica dust is not anticipated while using this product in its unhardened state. However, dust may be generated if sawing, grinding or other dust-forming activities are performed on hardened concrete. In these situations, engineering controls, such as ventilation and wetting methods, in conjunction with respiratory protection must be used.

ENVIRONMENTAL PROTECTION INFORMATION

Steps to be taken if material is released or spilled: A spill on the ground is not a hazard. However, prevent unhardened concrete or any run-off in contact with unhardened concrete from entering any waterway or sewer system. Use normal clean-up methods.

Waste Disposal Method: It can be disposed of as common waste in a landfill or used as fill after concrete has hardened.

Environmental Hazards: Water runoff which contacts unhardened concrete becomes alkaline. If the runoff enters a waterway, it may cause an unsightly scum on the water and may change the pH of the water. This may affect aquatic life depending on the concentration.

SHIPPING INFORMATION

DOT Shipping name: Ready-mix Concrete

DOT Hazard Classification: None

ADDITIONAL COMMENTS

This material safety data sheet is offered to you in good faith as accurate. Some of the information contained in this data sheet we received from sources outside our company. We reviewed the information and believe it to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No warranty is made, either expressed or implied.