



TEICHERT READYMIX

P.O. BOX 15002
SACRAMENTO, CALIFORNIA 95851

MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: FEBRUARY 2004

I. IDENTIFICATION

TRADE NAME:	READYMIX CONCRETE		
COMMON NAME:	PORTLAND CEMENT CONCRETE, READYMIX, PCC READYMIX CONCRETE		
MANUFACTURER'S NAME:	TEICHERT READYMIX		
ADDRESS	P.O. BOX 15002, SACRAMENTO, CA 95851		
TELEPHONE NUMBER:	(916) 484-3011	DATE REVISED:	AUGUST 2003
DEPARTMENT OF TRANSPORTATION	HAZARD CLASSIFICATION	N/A	SHIPPING NAME N/A
PRODUCT DESCRIPTION	PRODUCT IS A WET MIX OF MINERAL AGGREGATE, WATER, AND PORTLAND CEMENT. PRODUCT MAY ALSO INCLUDE FLY ASH (CONTAINING CALCIUM OXIDE) AND OTHER ADDITIVES, ACCORDING TO USER NEED. FLY ASH, IF INCLUDED, CONCENTRATION IS ≤ 3%; THE CONCENTRATIONS OF OTHER ADDITIVES, IF PRESENT, ARE < 1%.		

II. PHYSICAL PROPERTIES

VAPOR DENSITY (AIR=1)	N/A	MELTING POINT OR RANGE, F	N/A
SPECIFIC GRAVITY	1.7 – 3.0	BOILING POINT OR RANGE, F	N/A
SOLUBILITY IN WATER	0.1 – 1%	EVAPORATION RATE (BUTYL ACETATE=1)	N/A
VAPOR PRESSURE, mmHg at 20 C	N/A	APPEARANCE AND ODOR: COARSE, GRAY, WET MATERIAL WITH EARTHY ODOR.	

III. HAZARDOUS INGREDIENTS

CHEMICAL NAMES	CAS NUMBERS	% (APPROX)	EXPOSURE LIMITS IN AIR	
			ACGIH TLV	OSHA PEL
WATER	7732-18-5	5 – 15%		
PORTLAND CEMENT	65997-15-1	4 – 40%	10 mg/m ^{3***}	10 mg/m ^{3*} 5 mg/m ^{3**}
FLY ASH/POZZOLANIC ADDITIVES	61813-74-8	1-8%	N/E	5 mg/m ^{3**}
FINE AND COURSE AGGREGATE (NATURAL AND MANUFACTURED) COMPOSITION VARIES NATURALLY – TYPICALLY CONTAINS QUARTZ (CRYSTALLINE SILICA)	MIXTURE	60 – 91%	10 mg/m ^{3*} 3 mg/m ^{3**}	10 mg/m ^{3*} 5 mg/m ^{3**}

*: TOTAL DUST, PARTICULATES OT OTHERWISE REGULATED **: RESPIRABLE DUST
***FOR PARTICULATE MATTER CONTAINING NO ASBESTOS AND <1% CRYSTALLINE SILICA.

NOTES:

- (1) Natural sand includes quartz; a form of crystalline silica known to produce lung disease when routinely inhaled. However, product is shipped and used wet (5-15% water) and hence is unlikely to pose an airborne exposure hazard during normal use.
- (2) The product may include one or more performance-enhancing additives. Each is present at less than 1% of the total product.
- (3) TLV for respirable crystalline silica is 0.05 mg/m³. PEL for respirable silica is 0.1 mg/m³

EMERGENCY PHONE NUMBER

N/A = not applicable

(800) 287-7383

N/E = not established

IV. FIRE AND EXPLOSION HAZARD DATA

PRODUCT IS NON-COMBUSTIBLE AND NON-EXPLOSIVE

FLASH POINT, F:	N/A
AUTO IGNITION TEMPERATURE, F:	N/A
FLAMMABLE LIMITS IN AIR, VOLUME %	LOWER (LEL): N/A UPPER (UEL): N/A
FIRE EXTINGUISHING MATERIALS:	N/A
SPECIAL FIREFIGHTING PROCEDURES:	N/A
UNUSUAL FIRE EXPLOSION HAZARDS	NONE

V. HEALTH HAZARD DATA

SYMPTOMS OF OVEREXPOSURE

INHALED	PRODUCT AS SOLD (WET) DOES NOT POSE INHALATION HAZARD. IF PRODUCT IS ALLOWED TO HARDEN AND IS THEN FINELY FRAGMENTED, ROUTINE INHALATION OF QUARTZ DUST CAN LEAD TO THE LUNG DISEASE KNOWN AS SILICOSIS.
CONTACT WITH SKIN OR EYES	SHORT TERM CONTACT CAN CAUSE IRRITATION, PROLONGED CONTACT CAN CAUSE CORROSIVE BURNS.
ABSORBED THROUGH SKIN	NO
SWALLOWED	MAY BE SEVERELY IRRITATING OR CAUSE CORROSIVE BURNS

HEALTH EFFECTS OR RISKS FROM EXPOSURE

ACUTE	CORROSIVE QUALITY OF WET PRODUCT POSES IRRITATION AND BURN HAZARD TO SKIN AND EYES.
CHRONIC	ALLERGIC SKIN REACTIONS MAY OCCUR IN SUSCEPTIBLE INDIVIDUALS. LONG TERM OR ROUTINE SKIN CONTACT MAY PRODUCE DRY, CRACKED, AND IRRITATED SKIN.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	PRIOR SKIN PROBLEMS SUCH AS DERMATITIS.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT	FLUSH EYES WITH LARGE AMOUNT OF CLEAN WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN TO REMOVE ALL PARTICLES. SEEK MEDICAL ATTENTION IMMEDIATELY.
SKIN CONTACT	FLUSH SKIN WITH WATER IMMEDIATELY. WASH SKIN WITH MILD SOAP AND WATER. BURNS SHOULD BE TREATED AS CAUSTIC BURNS. SEEK MEDICAL ATTENTION IN CASES OF PROLONGED CONTACT.
INHALED	INHALATION OF WET PRODUCT NOT FORESEEABLE ROUTE OF EXPOSURE.
SWALLOWED	SEEK IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITTING. IF CONSCIOUS, HAVE VICTIM DRINK PLENTY OF WATER

SUSPECTED CANCER AGENT? NO FEDERAL OSHA NO NTP X IARC

NOTE:

- (1) IARC lists crystalline silica as a human carcinogen.
- (2) Exposure to airborne silica dust during initial product use is unlikely because sand particles are part of a wet mixture.

PROP 65 WARNING: CRUSHED ROCK AND SAND IN READYMIX CONCRETE CONTAINS QUANTITIES OF FINE CRYSTALLINE SILICA. CRYSTALLINE SILICA (QUARTZ) DUST IS LISTED UNDER TITLE 22, SECTION 12000, AS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. ALWAYS FAMILIARIZE YOURSELF WITH THE HAZARDS OF THE MATERIALS AND EQUIPMENT YOU ARE USING AND FOLLOW THE PRECAUTIONS INDICATED ON PRODUCT LABELS, MATERIAL SAFETY DATA SHEETS, AND YOUR HEALTH AND SAFETY TRAINING PROGRAM.

VI. REACTIVITY DATA

STABILITY		CONDITION TO AVOID:	NONE
STABLE	UNSTABLE		
X			
INCOMPATIBILITY (MATERIALS TO AVOID): ACIDS, AMMONIUM SALTS. ALUMINUM METAL			
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: NONE			
HAZARDOUS POLYMERIZATION		CONDITION TO AVOID: NONE	
MAY OCCUR	WILL NOT OCCUR		
	X		

VII. SPILL OR LEAK PROCEDURES

SPILL RESPONSE PROCEDURES	IMMEDIATELY CONTAIN SPILL AND PREVENT RELEASE TO DRAINS OR BODIES OF WATER. TRANSFER WET MATERIAL TO CONTAINERS, ALLOW TO HARDEN AND DISPOSE OF AS NORMAL TRASH. PREVENT SKIN AND EYE CONTACT DURING CLEANUP THROUGH USE OF GLOVES, CLOTHING, AND SAFETY GLASSES/GOGGLES, AS NECESSARY.
PREPARING WASTES FOR DISPOSAL (CONTAINER TYPES, NEUTRALIZATION, ETC)	DRY, HARDENED PRODUCT IS NOT CLASSIFIED AS HAZARDOUS WASTE. CAUTION SHOULD BE EXERCISED TO MINIMIZE THE GENERATION OF DUST DURING HANDLING OF HARDENED CONCRETE.

VIII. PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	USE NIOSH-APPROVED DUST RESPIRATOR WHEN GENERATING DUST FROM HARDENED PRODUCT OR DUST LEVELS ARE LIKELY TO EXCEED APPROPRIATE EXPOSURE LIMITS. PRODUCT AS SOLD (WET) DOES NOT POSE INHALATION HAZARDS.
VENTILATION AND ENGINEERING CONTROLS	USE VENTILATION CONTROLS IF GENERATING DUST FROM HARDENED PRODUCT.
PROTECTIVE GLOVES	WEAR GLOVES WHICH ARE IMPERVIOUS TO WET CONCRETE.
EYE PROTECTION	WEAR SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES.
OTHER PROTECTIVE CLOTHING AND EQUIPMENT	IF SPLASHING IS LIKELY, WEAR CLOTHING WHICH WILL PREVENT SKIN CONTACT.
WORK PRACTICES, HYGIENIC PRACTICES	USE WORK PRACTICES, WHICH MINIMIZE THE LIKELIHOOD OF SKIN, EYE AND CLOTHING CONTACT. USE NORMAL GOOD HYGIENE PRACTICES.

IX. STORAGE AND HANDLING PRECAUTIONS

Follow personal protection information as set forth in Section VIII of this MSDS when handling product. Every attempt should be made to avoid eye and skin contact with fresh, unhardened concrete. Respirable crystalline silica-containing dust may be generated when hardened concrete is subjected to mechanical forces, such as demolition work and surface treatment (sanding, grooving, chiseling, etc.).

Do not store near food, beverages, or smoking materials.

NOTICE:

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Replaces 2/94 MSDS
Revised 2/04