

MATERIAL SAFETY DATA SHEET

Last Revised: *February 2, 1998*

I. GENERAL INFORMATION:

CHEMICAL NAME & SYNONYMS TRADE NAMES & SYNONYMS	Freshly mixed unhardened concrete Ready Mix Concrete
CHEMICAL FAMILY FORMULA	Portland Cement Mixtures of portland cement or blended cements, aggregate and chemical admixtures.
PROPER DOT SHIPPING NAME DOT HAZARD CLASSIFICATION	n/a n/a
MANUFACTURER MANUFACTURER PHONE NUMBER MANUFACTURER ADDRESS	Thomas Concrete Industries, Inc. (770) 431-3300 2500 Cumberland Pkwy., Suite 210 Atlanta, GA 30339
CHEMTREC PHONE NUMBER	(800) 424-9300

II. INGREDIENTS:

PRINCIPAL HAZARDOUS COMPONENTS PERCENT THRESHOLD LIMIT
VALUE (UNITS)

Various. Mixtures of portland or blended cement, aggregate and chemical admixtures:

3 CaO-S102 (CAS# 121168-85-3)	n/a	n/a
2 CaO-S102 (CAS# 10034-77-2)	n/a	n/a
3 CaO-A 1202 (CAS# 23043-78-3)	n/a	n/a
4 CaO-A 1203 (CAS# 12068-35-8)	n/a	n/a
-Fe2O3		
CaSO4 / 2H2O (CAS# 7778-18-9)		
Plus traces of CaO, MgO, K2504, Na2504	n/a	n/a

OTHER INGREDIENTS:

Inert gravel, sand, rocks, flyash and granulated slag. May also include very small amounts of organic and inorganic materials which have no effect on the hazardous use of this product. All other ingredients are less than 1%.

III. PHYSICAL DATA:

BOILING POINT	n/a
SPECIFIC GRAVITY h ₂ o=1	.01-1
VAPOR PRESSURE (mm Hg)	n/a
PERCENT PRESSURE BY VOLUME (%)	n/a
VAPOR DENSITY (AIR=1)	n/a
EVAPORATION RATE (_____ =1)	n/a
SOLUBILITY IN WATER	n/a
pH	n/a
APPEARANCE AND ODOR	Gray, plastic, flowable granular mud and odorless

IV. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (Test Method)	n/a
AUTO IGNITION TEMPERATURE	n/a
FLAMMABLE LIMITS	n/a
LEL	n/a
UEL	n/a
EXTINGUISHING MEDIA	n/a
SPECIAL FIRE FIGHTING PROCEDURES	None
UNUSUAL FIRE & EXPLOSION HAZARDS	None

V. HEALTH HAZARD DATA:

THRESHOLD LIMIT VALUE	n/a
OSHA THRESHOLD LIMIT VALUE	n/a
ACGIH THRESHOLD LIMIT VALUE	n/a
CARCINOGEN (NTP PROGRAM)	No
CARCINOGEN (91ARC PROGRAM)	No

SYMPTOMS OF EXPOSURE:

Irritation of the skin and burning sensation particularly when the exposed area of skin was previously subjected to abrasion or irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Hypersensitive individuals may develop an allergic dermatitis. Cement may contain trace amounts of chromium (a suspected carcinogen).

PRIMARY ROUTE(S) OF ENTRY: Skin and eyes

EMERGENCY FIRST AID:

Irrigate eyes with heavy streams of water for at least 15 to 20 minutes. Wash exposed areas of the body with soap and water.

CARCINOGENIC POTENTIAL:

Concrete frequently contains crystalline silica in concentrations greater than 0.1%, principally contributed by the aggregates. Respirable crystalline silica is classified by IARC (International Agency for Research on Cancer) as a known human carcinogen and by NTP (National Toxicology Program) as "reasonably anticipated to be a carcinogen." Crystalline silica in wet concrete is not respirable and does not pose a hazard when the concrete is in its plastic or unhardened state. Once concrete has hardened, airborne dust generated by grinding, sawing, drilling, breaking, etc. can lead to potentially hazardous exposures to workers and appropriate respiratory protection precautions should be taken.

VI. REACTIVITY DATA:

STABILITY	Stable
CONDITIONS TO AVOID	Be aware mixture stiffens and hardens in 2 to 8 hours and becomes nonhazardous
INCOMPATIBILITY	Hazardous polymerization will not occur.
MATERIALS TO AVOID	None
CONDITIONS TO AVOID	None
HAZARDOUS DECOMPOSITION PRODUCTS	None

VII. ENVIRONMENTAL PROTECTION PROCEDURES:

SPILL RESPONSE	Contain spill until mixture hardens
WASTE DISPOSAL METHOD	Material can be retained until it hardens then dispose of it as a common waste.

VIII. SPECIAL PROTECTION INFORMATION:

EYE PROTECTION	If mixture has a potential to splash, splash goggles must be worn.
SKIN PROTECTION	Barrier creams, boots and clothing to protect.
RESPIRATORY PROTECTION (SPECIFIC TYPE)	None
VENTILATION RECOMMENDED	n/a
OTHER PROTECTION	Avoid abrasion of the skin in contact with unhardened plastic concrete.

IX. SPECIAL PROTECTION INFORMATION:

HYGIENIC PRACTICES PREPARING FOR REPAIR OR MAINTENANCE OF CONTAMINATED EQUIPMENT	See Section VII, above
OTHER PRECAUTIONS	Wash with water None

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