



MATERIAL SAFETY DATA SHEET

HMIS Label

HEALTH	3*
FIRE	0
PHYSICAL HAZARD	1
PPE	X

SECTION 1 – IDENTITY

Manufactured by: TXI Operations, LP
Address: 1341 W Mockingbird Lane
 Dallas, TX 75247
Product Name: TXI® Concrete-CTM (TXI015)
Chemical Name: N/A
Formula: Mixture of Portland Cement, Water, Aggregate and/or Sand
Trade Name and Synonyms: Ready Mix, Concrete, Wet Concrete, Cement Treated Base, CTB, Cement Treated Materials, CemSand Stabilizing Sand
MSDS prepared: December 1998 **Last revised:** June 2005

Emergency Phone (Chemtrec): 800-424-9300
Outside USA: 703-527-3887
Telephone for information: Nancy Garnett
 972-647-3824
Chemical Family: N/A
Common Name: Ready Mix

SECTION 2 – HAZARDOUS INGREDIENTS

Hazardous Component	CAS#	%Typical	TLV (Units)	PEL (Units)
Portland Cement	65997-15-1	*	10 mg/m ³	5 mg/m ^{3*} 15 mg/m ^{3**}
Aggregate: Quartz	14808-60-7	*	0.05 mg/m ³	10 mg of respirable dust/ % SiO ₂ + 2 30 mg of total dust/ % SiO ₂ + 2
Cristobalite	14464-46-1	*	0.05 mg/m ³	5 mg of respirable dust/ % SiO ₂ + 2 15 mg of total dust/ % SiO ₂ + 2
Calcium Carbonate	1317-65-3	*	10 mg/m ³	5 mg/m ^{3*} 15 mg/m ^{3**}

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).
 TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists (ACGIH).
 This material, if it becomes a waste, it is not classified as a RCRA hazardous waste (40 CFR 261). *Varies depending on product.

SECTION 3 – PHYSICAL DATA

Boiling Point N/A	Specific Gravity (H₂O=1) 2.4	Vapor Pressure (mmHg) N/A
Percent Volatile by Volume N/A	Vapor Density (Air=1) N/A	Evaporation Rate (n-Butyl Acetate=1) N/A
Percent Soluble in Water Slight (0.1 – 1.0 %)	Reactivity in Water Will not evolve flammable or toxic gases	Volatile Organic Content N/A
Appearance and Odor Gray, mud-like, viscous substance. No odor	Freezing Point N/A	

SECTION 4 – FIRE AND EXPLOSION DATA

Flash Point: N/A
Auto Ignition Temperature: N/A
Extinguishing Media: None
Auto Ignition Temperature: N/A
Unusual Fire and Explosion Hazards: None
Special Fire Fighting Procedures: None

Flammable Limits in Air (% by Volume):
 Lower: N/A Upper: N/A

SECTION 5 – HEALTH INFORMATION

Signs and Symptoms of Exposure

Acute Overexposure: Irritation of skin, eyes, or nasal passages. Contact with the skin or eyes may result in irritation, possible severe corrosion damage, and/or alkali burns. Eye contact- Keep out of eyes. May cause irritation or alkali burns which may result in permanent damage to sight. Skin Contact – Untreated contact may cause dermatitis and chemical burns. Ingestion- Stomach irritation and blockage. Inhalation- May cause blockage of breathing passages and inflammation of respiratory passages.

Chronic Overexposure: Eye contact- May cause inflammation of the cornea. Skin Contact- Repeated overexposure may lead to irritation and in some individuals a sensitivity to cement resulting in severe rashes which could require the person to avoid all contact with product. Inhalation- Do not breathe dust from dried product. Excessive exposure by inhalation of dust from this product over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis, silicosis, and lung cancer. Dust, such as from cutting or sawing of the dried product, can cause inflammation of the lining tissue of the interior of the nose.

Medical Conditions Generally Aggravated by Exposure

Dermatitis or other skin disorders may be aggravated by exposure. Allergic individuals should not continue exposure to this material.

Chemical/Component Listed as Carcinogen

Quartz

NTP	IARC	OSHA
YES	YES	NO

Other Exposure Limits

None

Emergency & First Aid Procedures for Indicated Routes of Entry

Eyes: Rinse with copious amounts of water for 15 minutes. Do not rub! Seek medical assistance immediately.

Skin: Rinse with copious amounts of soapy water. Use a neutralizing solution prior to or after washing to reduce irritation. If irritation persists, obtain medical assistance.

Ingestion: Do not induce vomiting. Seek medical assistance immediately.

Inhalation: Remove to fresh air. Seek medical assistance immediately.

SECTION 6 – REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Handling procedures of dried product, such as sawing, that may generate dust.

Incompatibility: Strong acids. Contact with acids may produce a violent, exothermic reaction and may evolve toxic gases or vapors depending on the acid involved.

Hazardous Polymerization: Will not occur

Hazardous Decomposition or Combustion Products: None Known

SECTION 7 – SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Leaked or Spilled

Wear personal protective equipment to prevent skin and eye exposures. Use PPE to protect against alkali burns or irritation. Use respiratory protection when necessary. Recover free product. Prevent product from entering sewer or waterways. Material will set up if not removed immediately.

Waste Disposal Method

Consult federal, state and local regulations. Not classified as a hazardous waste under 40 CFR 261.

SECTION 8 – PERSONAL PROTECTION INFORMATION

Respiratory Protection

Not required under normal conditions. If necessary, select appropriate respirator based on the level of airborne contamination and presence of sufficient oxygen. Use only NIOSH/MSHA approved respirators. Follow OSHA respiratory regulations (29 CFR 1910.134) to ensure employee training and protection are adequate.

Ventilation: Not required under normal conditions of use.

Protective Gloves: Alkali resistant gloves.

Eye Protection: Close fitting safety goggles.

Other Protective Clothing or Equipment: Avoid skin contact. Use protective clothing as needed to avoid skin contact such as long sleeve shirt, arm sleeves, aprons, long pants extending over the tops of high top work boots. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.132. Contaminated clothing should be removed and washed. Skin underneath such clothing should be washed thoroughly (see First Aid above).

SECTION 9 – SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing: Product, as delivered, must be put into position immediately. It cannot be stored for future use without the addition of other chemicals. Do not expose product to acids unless finished etching of material is desired. Unintentional contact with water should be avoided to preserve product.

Product not regulated by DOT

Other Precautions: Keep out of reach of children.

Other Information: Reasonable care has been taken in the preparation of this information, but the manufacturer nor preparer of the MSDS makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Other manufacturer's MSDSs may be used as a source of information in the preparation of this MSDS. TXI is not responsible for the suitability or accuracy of their information.