



MATERIAL SAFETY DATA SHEET

HMIS Label

HEALTH	2
FIRE	0
PHYSICAL HAZARD	1
PPE	X

SECTION 1 – IDENTITY

Distributed by: TXI Operations, LP
Address: 1341 W Mockingbird Lane
Dallas, TX 75247

Product Name: Portland Cement (TXI002)
Chemical Name: NA
Common Name: NA

Formula: a heterogeneous mixture of basic calcium silicates, aluminates and ferrites with small impurities of magnesia, chromium and complex alkali metal compounds.

Trade Name and Synonyms: Portland Cement, Hydraulic Cement Types I, II, I/II, III, ILA, Class A, Class C and Class H.

Special Certification: NSF/ANSI-61

MSDS prepared: November 1998

Last revised: September 2003

Emergency Phone (Chemtrec): 800-424-9300

Outside USA: 703-527-3887

Telephone for information: Nancy Garnett
972-647-3824

Chemical Family: NA

SECTION 2 – HAZARDOUS INGREDIENTS

<u>Hazardous Component</u>	<u>CAS#</u>	<u>%Typical</u>	<u>TLV (Units)</u>	<u>PEL (Units)</u>
Portland Cement	65997-15-1	90-96	10 mg/m ³	15 mg/m ³ ** 5 mg/m ³ *
Gypsum	13397-24-5	2-5	10 mg/m ³	15 mg/m ³ ** 5 mg/m ³ *
Anhydrite	14798-04-4	1.5-5	10 mg/m ³	15 mg/m ³ ** 5 mg/m ³ *

*Respirable Fraction

**Total dust

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, is not classified as a RCRA hazardous waste (40 CFR 261).

SECTION 3 – PHYSICAL DATA

Boiling Point

NA

Specific Gravity (H₂O=1)

3.05-3.20

Vapor Pressure (mmHg)

NA

Percent Volatile by Volume

0

Vapor Density (Air=1)

NA

Evaporation Rate (n-Butyl Acetate)

NA

Percent Soluble in Water

Slight (0.1-1.0)

Reactivity in Water

Will not evolve flammable or toxic gases

Appearance and Odor

Fine, gray powder, no odor.

SECTION 4 – FIRE AND EXPLOSION DATA

Flash Point: Will not ignite

Extinguishing Media: NA

Unusual Fire and Explosion Hazards: None

Special Fire Fighting Procedures: None

Flammable Limits in Air (% by Volume):

Lower: NA **Upper:** NA

Auto Ignition Temperature: NA

SECTION 5 – HEALTH INFORMATION

Signs and Symptoms of Exposure

Acute Overexposure: Inhalation-Irritation of the nose, throat and respiratory tract. Skin-When wet, contact with the skin or eyes may result in irritation and/or alkali burns.

Chronic Overexposure: Cement dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop allergic dermatitis.

Medical Conditions Generally Aggravated by Exposure: Respiratory disorders or diseases, dermatitis, or other skin disorders may be aggravated by exposure.

Chemical/Component Listed as Carcinogen: None

Other Exposure Limits: None

Emergency & First Aid Procedures for Indicated Routes of Entry

Eyes: Rinse with copious amounts of water for 15 minutes. Seek medical assistance immediately.

Skin: Rinse with copious amounts of water for 15 minutes. If irritation develops seek medical assistance.

Ingestion: Seek medical assistance immediately.

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

SECTION 6 – REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None known

Incompatibility (materials to avoid): Material is highly alkaline. Contact with acids will produce a violent, exothermic reaction and may evolve toxic gases or vapors, depending upon 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 respiratory protection as necessary. Prevent product from entering sewer or waterways.

Waste Disposal Method

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

SECTION 8 – PERSONAL PROTECTION INFORMATION

Respiratory Protection

Not required under normal conditions. 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: Use in well ventilated area.

Protective Gloves: Chemical resistant gloves.

Eye Protection: Goggles, or safety glasses with face shield.

Other Protective Clothing or Equipment: Avoid skin contact. Provide readily available eyewash stations.

SECTION 9 – SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry, ventilated storage area in closed containers. Avoid freezing temperatures during storage. Avoid breathing vapors. Store away from acids. Store away from water to preserve product.

Other Precautions: None determined.

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.

9/2003 revision prepared by: Michele Smith, CIH, Caldwell Engineering; PO Box 851325, Richardson, TX 75085; 972-889-7200. Some information used in the generation of this MSDS was obtained from existing TXI MSDSs.