



MATERIAL SAFETY DATA SHEET

HMIS Label

HEALTH	2*
FIRE	0
PHYSICAL HAZARD	0
PPE	X

SECTION 1 – IDENTITY

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

Product Name: Gravel (TXI008)

Chemical Name: Silica

Common Name: Gravel

Formula: Predominantly SiO₂

Trade Name and Synonyms: River Rock, Pea Gravel, Coarse Aggregate

MSDS prepared: September 1996 **Last revised:** January 2005

Emergency Phone (Chemtrec): 800-424-9300

Outside USA: 703-527-3887

Telephone for information: Nancy Garnett
972-647-3824

Chemical Family: Silicate

SECTION 2 – HAZARDOUS INGREDIENTS

<u>Hazardous Component</u>	<u>CAS#</u>	<u>%Typical</u>	<u>TLV (Units)</u>	<u>PEL (Units)</u>
Quartz	14808-60-7	50-100	0.05 mg/m ^{3*}	10 mg/m ^{3*} %SiO ₂ + 2 30 mg/m ^{3**} %SiO ₂ + 2

*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)

2.3-2.7

Vapor Pressure (mmHg)

NA

Percent Volatile by Volume

0

Vapor Density (Air=1)

NA

Evaporation Rate (n-Butyl Acetate)

NA

Percent Soluble in Water

Negligible (<0.1%)

Reactivity in Water

Will not evolve flammable or toxic gases

Appearance and Odor

Light colored, rounded or broken, 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: N/A Upper: N/A

Auto Ignition Temperature: NA

SECTION 5 – HEALTH INFORMATION

Signs and Symptoms of Exposure

Acute Overexposure: Inhalation-Congestion of nasal passages and respiratory systems. Eye: Excessive dust may cause severe abrasion of the cornea.

Chronic Overexposure: Excessive exposure, by inhalation, to dusts of this material, over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis, silicosis, or lung cancer. Dust can cause inflammation to the lining tissue of the interior of the nose and inflammation of the cornea.

Medical Conditions Generally Aggravated by Exposure: Respiratory disorders or diseases may be aggravated by exposure

Chemical/Component Listed as Carcinogen:

	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
Quartz	YES	YES	NO

Other Exposure Limits: None

Emergency & First Aide Procedures for Indicated Routes of Entry

Eyes: Rinse with copious amounts of water for 15 minutes. Do not rub eyes. If irritation persists, 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): None known

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 eye exposures. Use respiratory protection as necessary. Material not contaminated may be re-used. Avoid generation of excessive dusts.

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: Gloves to protect against abrasion.

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

Other Protective Clothing or Equipment: Prevent exposure to the eyes.

SECTION 9 – SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry, ventilated storage area in closed containers. Store in a manner to prevent accumulation of airborne dust.

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.

Some information used in the generation of this MSDS was obtained from existing TXI MSDSs.