



1341 West Mockingbird Lane • Dallas, Texas 75247 • 972.647.6700 • www.txi.com

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTITY

Name TXI OPERATIONS, LP	Address 1341 W. MOCKINGBIRD LANE, DALLAS, TEXAS 75247
Emergency Telephone Number (972) 647-6700	Person Responsible for Preparation NANCY GARNETT
Common Name (used on label) VINYL PATCH	Date SEPTEMBER 1998
Chemical Name DOES NOT APPLY	Chemical Family NOT APPLICABLE
Trade Name & Synonyms VINYL PATCH, VINYL CONCRETE PATCH	Formula MIXTURE OF PORTLAND CEMENT, SAND AND POLYVINYL ESTERS

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	30-35	10 mg/m ³	10 mg/m ³
SAND (QUARTZ)	14808-60-7	65-70	0.1 mg/m ³ *	0.1 mg/m ³ *
VINYL ACETATE POLYMERS	9003-20-7	2-3	Not established	Not established

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).

*Respirable fraction

SECTION 3 - PHYSICAL DATA

Boiling Point DOES NOT APPLY	Specific Gravity (H₂O = 1) 2.5 - 3.0	Vapor Pressure (mm = Hg) DOES NOT APPLY
Percent Volatile by Volume NEGLIGIBLE	Vapor Density (Air = 1) DOES NOT APPLY	Evaporation Rate (Butyl Acetate = 1) < 1
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 MIXED WITH SAND, NO ODOR		

Hazardous Material Information System Identifier (HMIS)

HEALTH = 2* FLAMMABILITY = 1 REACTIVITY = 1 PERSONAL PROTECTION = X

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point DOES NOT APPLY	Flammable Limits in Air (% by Volume) <u>Lower</u> : DOES NOT APPLY <u>Upper</u> : DOES NOT APPLY
Extinguishing Media WATER SPRAY OR MULTIPURPOSE DRY CHEMICAL	Auto Ignition Temperature > 566 Degrees F
Unusual Fire and Explosion Hazards DUST PARTICULATES FROM THE POLYVINYL ESTER COMPONENTS (2-3%), IN HIGH CONCENTRATIONS MAY FORM AN EXPLOSIVE MIXTURE WITH AIR. MAINTENANCE OF AIRBORNE DUST CONCENTRATION BELOW 10mg/m, WILL MITIGATE THE RISK OF AN EXPLOSION.	
Special Fire Fighting Procedures PRODUCTS OF COMBUSTION INCLUDE ACETIC ACID, CARBON MONOXIDE, CARBON DIOXIDE AND SMOKE. UTILIZE NIOSH/MSHA APPROVED, SELF-CONTAINED BREATHING APPARATUS IN POSITIVE PRESSURE MODE.	

SECTION 5 - HEALTH INFORMATION

Signs and Symptoms of Exposure - (1) Acute Overexposure

IRRITATION OF SKIN, EYES AND NASAL PASSAGES. WHEN WET, CONTACT WITH THE SKIN OR EYES MAY RESULT IN IRRITATION AND/OR ALKALI BURNS.

Signs and Symptoms of Exposure - (2) 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.

Medical Conditions Generally Aggravated by Exposure

RESPIRATORY DISORDERS OR DISEASES, ASTHMA, DERMATITIS, OR OTHER SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE.

Chemical/Component Listed as Carcinogen or Potential 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

INHALATION: REMOVE FROM EXPOSURE. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CONSULT A PHYSICIAN.

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN.

SKIN CONTACT: IMMEDIATELY WASH SKIN THOROUGHLY WITH SOAP AND WATER.

SECTION 6 - REACTIVITY DATA

Stability

STABLE

Conditions to Avoid

NONE

Incompatibility (Materials to Avoid)

MATERIAL IS HIGHLY ALKALINE. CONTACT WITH STRONG ACIDS MAY PRODUCE A VIOLENT, EXOTHERMIC REACTION AND MAY EVOLVE TOXIC GASES OR VAPORS, DEPENDING UPON THE ACID INVOLVED.

Hazardous Decomposition Products

THERMAL DECOMPOSITION WILL PRODUCE ACETIC ACID, OXIDES OF CARBON, AND SMOKE.

Hazardous Polymerization

WILL NOT OCCUR

Conditions to Avoid

DOES NOT APPLY

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Leaked or Spilled

CLEAN-UP OF SPILL MAY REQUIRE PERSONAL PROTECTIVE EQUIPMENT TO PREVENT DUST EXPOSURES AND PROTECT AGAINST ALKALI BURNS OR IRRITATION. SEE SECTION 8.

Waste Disposal Method

IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 8 - PERSONAL PROTECTION INFORMATION

Respiratory Protection

NIOSH/MSHA APPROVED FOR PROTECTION AGAINST SILICA AND NUISANCE DUSTS.

Ventilation

GENERAL OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV/PEL.

Protective Gloves

RUBBER, PVC, NEOPRENE, OR OTHER IMPERVIOUS MATERIAL.

Other Protective Clothing or Equipment

RUBBER HIGH TOP BOOTS, ARM SLEEVES AND APRON, WHEN NECESSARY TO PREVENT SKIN CONTACT.

Eye Protection

GOGGLES

SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

SHOULD BE STORED IN A MANNER TO PREVENT CONTACT WITH STRONG ACIDS. UNINTENTIONAL CONTACT WITH WATER SHOULD BE AVOIDED TO PRESERVE PRODUCT.

Other Precautions

NONE DETERMINED.

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications which are not included within this document.