

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) MOUND/HOME PLATE CLAY	Date SEPTEMBER 1998
Chemical Name DOES NOT APPLY	Chemical Family SILICATE
Trade Name & Synonyms NONE	Formula A HETEROGENEOUS BLEND OF SILICA, ALUMINA, FERRIC OXIDE, CALCIUM OXIDE, MAGNESIUM OXIDE AND WATER.

SECTION 2 - HAZARDOUS INGREDIENTS

<u>Hazardous Component</u>	<u>CAS #</u>	<u>% Typical</u>	<u>TLV (Units)</u>	<u>PEL (Units)</u>
CLAY	100			
NUISANCE MINERAL DUST:				
FOR CLAY WITH <1% QUARTZ - RESPIRABLE				5 mg/m ³
FOR CLAY WITH <1% QUARTZ - TOTAL DUST			10 mg/m ³	15 mg/m ³
QUARTZ CONTAINING DUST:				
FOR CLAY WITH >1% QUARTZ - RESPIRABLE			.1 mg/m ³	0.1 mg/m ³
FOR CLAY WITH >1% QUARTZ - TOTAL DUST				30 mg/m ³ /% SiO ₂ +2

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).

SECTION 3 - PHYSICAL DATA

Boiling Point	Specific Gravity (H ₂ O = 1)
Vapor Pressure (mm = Hg) >3000 deg F	2.5
Percent Volatile by Volume Acetate)	Vapor Density (Air = 1)
0%	DOES NOT APPLY
Percent Soluble in Water	Reactivity in Water
INSOLUBLE	WILL NOT EVOLVE FLAMMABLE OR TOXIC GASES
Appearance and Odor	Evaporation Rate (n=Butyl)
EARTHY, FINE GRAINED POWDER OR AMORPHOUS SOLID. NO ODOR.	DOES NOT APPLY

Hazardous Material Information System Identifier (HMIS)
 HEALTH = 1* FLAMMABILITY = 0 REACTIVITY = 0 PERSONAL PROTECTION = X

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point	Flammable Limits in Air (% by Volume)
DOES NOT APPLY	Lower: DOES NOT APPLY Upper: DOES NOT APPLY
Extinguishing Media	Auto Ignition Temperature
DOES NOT APPLY	DOES NOT APPLY
Unusual Fire and Explosion Hazards	
NONE	
Special Fire Fighting Procedures	
NONE	

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SECTION 5 - HEALTH INFORMATION

Signs and Symptoms of Exposure - (1) Acute Overexposure

INHALATION: EXPOSURE TO A LARGE CONCENTRATION OF DUST MAY CAUSE IRRITATION. SKIN: NONE. EYE: PARTICLES IN THE EYE MAY CAUSE IRRITATION. INGESTION: INTESTINAL OBSTRUCTION.

Signs and Symptoms of Exposure - (2) Chronic Overexposure

INHALATION: REPEATED EXPOSURE TO LARGE CONCENTRATIONS OF DUST MAY CAUSE PNEUMOCONIOSIS. SYMPTOMS OF PNEUMOCONIOSIS ARE PAIN IN THE CHEST, COUGH, DYSPNEA, REDUCED THORACIC EXCURSION, SOMETIMES CYANOSIS, AND FATIGUE AFTER SLIGHT EXERTION. THE PNEUMOCONIOSIS MAY TAKE THE FORM OF SILICOSIS IF A HIGH CONCENTRATION OF FREE SILICA IS CONTAINED IN THE CLAY. EXCESSIVE EXPOSURE TO QUARTZ OVER AN EXTENDED PERIOD OF TIME MAY RESULT IN THE DEVELOPMENT OF PULMONARY DISEASES INCLUDING PNEUMOCONIOSIS, SILICOSIS OR LUNG CANCER. SKIN: NONE.

EYE: NO DATA AVAILABLE. INGESTION: NO DATA AVAILABLE.

Medical Conditions Generally Aggravated by Exposure
RESPIRATORY DISORDERS OR DISEASES.

Chemical/Component Listed as Carcinogen	NTP	IARC	OSHA
QUARTZ	YES	YES	NO
Other Exposure Limits			
NONE			

Emergency & First Aide Procedures for Indicated Routes of Entry

EYE CONTACT: IMMEDIATELY FLUSH EXPOSED AREA WITH WATER OR NORMAL SALINE FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN CONTACT: WASH AREA WITH WATER.

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

INGESTION: TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION.

SECTION 6 - REACTIVITY DATA

Stability	Conditions to Avoid
STABLE	HANDLING PROCEDURES WHICH MAY GENERATE DUST.
Incompatibility (Materials to Avoid)	
MOLTEN LITHIUM ATTACKS SILICATES.	
Hazardous Decomposition or Combustion Products	
DOES NOT APPLY	
Hazardous Polymerization	
WILL NOT OCCUR	

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Leaked or Spilled

WEAR NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH A PARTICULATE FILTER TO PREVENT DUST EXPOSURE. WEAR PROTECTIVE GOGGLES TO PROTECT AGAINST EYE IRRITATION. PICK UP SOLID MATERIAL WITH A MINIMUM OF DUSTING.

Waste Disposal Method

GENERALLY NOT RESTRICTED. CONSULT APPROPRIATE FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES.

SECTION 8 - PERSONAL PROTECTION INFORMATION

Respiratory Protection

PROVIDE GENERAL VENTILATION AND LOCAL EXHAUST. NIOSH APPROVED DUST FILTER RESPIRATOR SHOULD BE USED IN DUSTY CONDITIONS.

Ventilation

SUFFICIENT TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE THRESHOLD LIMIT VALUE (TLV).

Protective Gloves

NOT REQUIRED, THOUGH RECOMMENDED FOR LONG TERM EXPOSURE.

Eye Protection

CLOSE FITTING SAFETY GOGGLES

Other Protective Clothing or Equipment

WEAR PROTECTIVE CLOTHING, SUCH AS LONG SLEEVE SHIRT, LONG PANTS EXTENDING OVER THE TOPS OF WORK SHOES, TO PREVENT SKIN CONTACT. AN EYEWASH SHOULD BE AVAILABLE NEAR WORK AREA. PERSONAL PROTECTIVE CLOTHING AND USE OF EQUIPMENT MUST BE IN ACCORDANCE WITH 29 CFR 1910.132.

SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

WEAR APPROPRIATE SAFETY EQUIPMENT AND CLOTHING TO PREVENT INHALATION, SKIN, AND EYE CONTACT.

Other Precautions

NONE

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