

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

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTITY

TXI OPERATIONS, L.P.

Emergency Telephone Number

(972) 647-6700

Common Name (used on label)

ALL PURPOSE SAND

Chemical Name

SILICA SAND

Trade Name & Synonyms

ALL PURPOSE SAND, PLAY SAND, SILICA SAND, QUARTZ SAND, CONCRETE SAND, MASON SAND, ASPHALT SAND, FILTER MEDIA,

AND FOUNDRY SAND.

Address

1341 W. MOCKINGBIRD LANE, DALLAS, TEXAS 75247

Date

AUGUST 1998 Chemical Family

SILICATE

Poemule

PREDOMINANTLY SiO, (See Section 2)

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Component

CAS#

% Typical

TLV (Units)

PEL (Units)

QUARTZ (Respirable)

(Total Dust)

14808-60-7

Person Responsible for Preparation

NANCY GARNETT

50 - 100

0.1 mg/m^{1-p}

0.1 mg/m³*

30 mg/m3* %SiO2+2

Vapor Pressure (mm = Hg)

Evaporation Rate (n=Butyl Acetate)

DOES NOT APPLY

DOES NOT APPLY

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 (H₂O = 1)

DOES NOT APPLY

2.6 - 2.7

Vapor Density (Air = 1)

Percent Volatile by Volume

DOES NOT APPLY

Percent Soluble in Water

Reactivity in Water

NEGLIGIBLE (<0.1%)

WILL NOT EVOLVE PLAMMABLE OR TOXIC GASES

Appearance and Odor

LIGHT COLORED, GRAINY SAND, NO ODOR.

Hazardous Material Information System Identifier (HMIS)

HEALTH = 2°

FLAMMABILITY = 0

REACTIVITY = 0

PERSONAL PROTECTION = X

SECTION 4 - FIRE AND EXPLOSION DATA

Plash Point

WILL NOT IGNITE

Extinguishing Media

Flammable Limits in Air (% by Volume)

Lower: DOES NOT APPLY Upper: DOES NOT APPLY

Auto Ignition Temperature DOES NOT APPLY

DOES NOT APPLY Unusual Fire and Explosion Hazarda

NONE

Special Fire Fighting Procedures

THIS MATERIAL, SAND, MAY BE USED TO SMOTHER FIRES.

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[.] Only particle sizes of 10 micrometers or less are considered to be respirable (breathable) and of possible bazard if exposure occurs.

SECTION 5 - HEALTH INFORMATION

Signs and Symptoms of Exposure - (1) Acute Overexposure - CONGESTION OF NASAL PASSAGES AND RESPIRATORY SYSTEMS. EXCESSIVE DUST MAY CAUSE SEVERE ARRASION OF CORNEA

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 PNEUMONOCONIOSIS, SILICOSIS, OR LUNG CANCER. DUST CAN CAUSE INFLAMMATION OF THE LINING TISSUE OF THE INTERIOR OF THE NOSE AND INFLAMMATION OF THE CORNEA.

Medical Conditions Generally Aggravated by Exposure

RESPIRATORY DISORDERS OF DISEASES MAY BE AGGRAVATED BY EXPOSURE TO DUST OF THIS MATERIAL.

Chemical/Component Listed as Carcinogen

NTP YES IARC

YES

OSHA NO

Other Exposure Limits

QUARTZ Othe NONE

Emergency & Pirst 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. BYES: WASH BYES WITH RUNNING WATER. DO NOT RUB BYES! IF IRRITATION PERSISTS, OBTAIN MEDICAL ASSISTANCE.

SECTION 6 - REACTIVITY DATA

Stability

Conditions to Avoid

STABLE

DOES NOT APPLY

4

Incompatibility (Materials to Avoid)

NONE

Hazardous Decomposition or Combustion Products

NONE

Hazardous Polymerization

WILL NOT OCCUR

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Leaked or Spilled

CLEAN-UP OF SPILLS MAY REQUIRE PERSONAL PROTECTIVE EQUIPMENT TO PREVENT DUST EXPOSURES. SEE SECTION 8.

Waste Disposal Method

IF THIS MATERIAL, AS PROVIDED BY THE MANUFACTURER, BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY UNDER THE AUTHORITY OF THE RESOURCE CONSERVATION AND RECOVERY ACT (40 CFR 261). DISPOSE OF 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

Eye Protection

TO PROTECT FROM ABRASION

SAFETY GLASSES, GOOGLES, OR FACE SHIELD, WHEN NECESSARY TO PREVENT EYE CONTACT.

Other Protective Clothing or Equipment

GOGGLES OR OTHER EYE PROTECTION TO PREVENT DUST EXPOSURE INTO EYES.

SECTION 9 - SPECIAL PRECAUTIONS.

Precautions to be Taken in Handling & Storing

SHOULD BE STORED IN A MANNER TO PREVENT ACCUMULATIONS OF AIRBORNE DUST.

Other Precautions
NONE DETERMINED

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