

# KWIK MIX MATERIALS LIMITED

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## Material Safety Data Sheet

**Product Name(s) : Aggregates - SANDS & GRAVEL**

**IDENTIFICATION** Kwik Mix Washed Play Sand, All Purpose Sand, Silica Sand, Pool Filter Sand, Sand in a Tube, Pea Gravel, Limestone Screenings

**Product Use** Aggregate is used in the manufacture of bricks, mortar, concrete, paving materials and other construction applications.  
**DO NOT USE** this product for abrasive blasting.

### COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS #	Exposure Limits (mg/m <sup>3</sup> )	
			OSHA PEL	ACGIH TLV-TWA
Crystalline Silica	varies	14808-60-7	[(10)/(%SiO <sub>2</sub> +2)] (R)	.025 (R)
Mica	varies	12001-26-2		3 (R)
Calcium Carbonate	varies	1317-65-3		10 (T)
Calcium Sulfate*	varies	13397-24-5	15(T), 5 (R)	10 (T)

Note: Exposure limits for components noted with an \* contain no asbestos

PEL means OSHA Permissible Exposure Limit

TLV means American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value

MSHA means Mine Safety and Health Administration Exposure Limit

TWA means 8 hour time weighted average.

Exposure limits for components noted with an \* contain no asbestos

**Note:** The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA June 30, 1993 following a decision by the 11<sup>th</sup> Circuit Court of Appeals. These PELs are now being enforced by Federal OSHA. Be aware that more restrictive exposure limits may be enforced by some states, agencies or other authorities.

### HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

This product is a chemically inert, non-combustible mineral. Excessive inhalation of dust may cause lung disease, silicosis, with symptoms of shortness of breath and reduced pulmonary function.

#### HEALTH HAZARDS:

**WARNING!! Toxic – Harmful by inhalation (Contains Crystalline Silica)**  
**DO NOT USE for Abrasive Blasting**

**Inhalation:** Inhalation of dust may cause irritation of the nose, throat and respiratory passages, including choking, depending on the degree of exposure.

**Skin Contact:** Aggregates may cause dry skin, abrasions discomfort, and irritation.

**Eye Contact:** Contact may cause mechanical irritation and possible injury.

**Ingestion:** Do not ingest aggregates. No adverse effects expected for normal, incidental ingestion.

**Chronic Health Effects:** Prolonged overexposure to any nuisance dust may cause lung injury. Symptoms include cough, shortness of breath, and reduced pulmonary function.

**Cancer Status:** Crystalline silica is classified by IARC as a known human carcinogen.

**Medical Conditions Aggravated by Exposure:** Individuals with respiratory disease, including but not limited to, asthma, emphysema, and bronchitis, or subject to eye irritation can be aggravated by exposure.

**Signs and Symptoms of Exposure:** Overexposure to nuisance dusts may cause mucous membrane and respiratory irritation, cough, sore throat, nasal congestion, sneezing and shortness of breath.

## **FIRST AID MEASURES:**

**Gross Inhalation:** Remove victim to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get prompt medical attention.

**Skin Contact:** Wash exposed skin with soap and water before breaks and at the end of the shift. Seek medical attention for rash or irritation.

**Eye Contact:** Flush the eyes immediately with large amounts of running water, lifting the upper and lower lids occasionally. If irritation persists or for imbedded foreign body, get immediate medical attention.

**Ingestion:** Do not induce vomiting. If conscious, have person drink plenty of water. If large amounts are swallowed, get immediate medical attention.

## **FIRE AND EXPLOSION DATA:**

**Flash Point (Method Used):** Non-combustible

**Autoignition Temp:** Will not burn.

**Flammable Limits:** LEL n/a UEL: n/a

**Extinguishing Media:** This product will not burn but is compatible with all extinguishing media. Use any media that is appropriate for the surrounding fire.

**Special Fire Fighting Procedures:** None required with respect to this product. Firefighters should always wear self-contained breathing apparatus for fires indoors or in confined areas.

**Unusual Fire and Explosion Hazards:** None

**Hazardous Combustion Products:** None

## **ACCIDENTAL RELEASE MEASURES**

Place spilled material into a container. Avoid actions that cause dust to become airborne. Avoid inhalation of dust. Wear appropriate protective equipment.

## **HANDLING AND STORAGE**

General Stack bagged material in a secure manner to prevent falling. Bagged aggregate is heavy and poses risks such as sprains and strains to the back, arms, shoulders and legs during lifting and mixing. Handle with care and use appropriate control measures.

Usage This product is NOT to be used for abrasive blasting. Cutting, crushing or grinding aggregates, hardened cement, concrete or other crystalline silica-bearing materials will release respirable crystalline silica. Use all appropriate measures of dust control or suppression, and Personal Protective Equipment(PPE) described below

Housekeeping -Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air Use HEPA vacuum or thoroughly wet with water to clean up dust.

Storage Temperature: Unlimited

Storage Pressure: Unlimited

## **EXPOSURE CONTROL – PERSONAL PROTECTION**

**Ventilation:** Use local exhaust as required to maintain exposures below applicable occupational exposure limits.

**Respiratory Protection:** Use appropriate respiratory protection for respirable particulates based on consideration of airborne workplace concentrations and duration of exposure.

**Gloves:** Wear gloves in situations where abrasions from aggregates may occur.

**Eye Protection:** Safety glasses or goggles recommended. Wearing contact lenses when using aggregates, under dusty conditions, is not recommended.

**Other Protective Equipment/Clothing:** As appropriate for the work environment. Dusty clothing should be laundered before wearing again.

## **PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Variety of colours

**pH in water** Neutral

**Boiling point** n/a

**Evaporation Rate** n/a

**Solubility in Water** 0%

**Odour:** odourless

**Specific Gravity (water=1)** 2.7

**Vapour Pressure** n/a

**Vapour Density** n/a

**Percent Volatile** 0%

## **STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** contact with incompatible material

**Incompatibility:** Aggregate dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride etc.

**Hazardous Decomposition Products:** None

**Hazardous Polymerization:** Will not occur

**Conditions to avoid:** None

**TOXICOLOGICAL INFORMATION:** No acute toxicity data is available

**ECOLOGICAL INFORMATION:** No ecotoxicity data. Not an environmental hazard.

**WASTE DISPOSAL:** If uncontaminated, dispose as an inert mineral. If contaminated, disposal in accordance with regulations. Dispose of aggregates according to Federal, State, Provincial and Local regulations

**TRANSPORTATION DATA:** This product is not classified as a hazardous Material under US DOT or Canadian TDG regulations

**Canadian WHMIS Classification:** Aggregate products may be subject to WHMIS depending on the intended use and worker exposure

**Canadian Environmental Protection Act:** All the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

Hazard Rating for Health, Fire, Reactivity – 0

References: Registry for Toxic Effects of Chemical Substances 1993  
Industrial Hygiene and Toxicology  
Seventh Annual Report on Carcinogens 1994  
Hawley's Condensed Chemical Dictionary 12<sup>th</sup> Edition

This information is offered solely for informational purposes and is subject to your own investigation and verification.

