

SECTION 1 - MATERIAL IDENTIFICATION & USE				
MATERIAL: KWIK MIX CONCRETE PATCH				
MANUFACTURER'S NAME: KWIK MIX MATERIALS LIMITED			sales@kwikmix.com	
STREET ADDRESS: PO BOX 520			STREET ADDRESS: 20303 Kwik Mix Road	
CITY: PORT COLBORNE		PROVINCE: ONTARIO	CITY: Wainfleet	
PROVINCE: ON				
POSTAL CODE: L3K 5X7	EMERGENCY PHONE (905) 834-6177:		POSTAL CODE: L0S 1V0	EMERGENCY PHONE
CHEMICAL NAME: N/A		CHEMICAL FAMILY: N/A		CHEMICAL FORMULA: N/A
PACKAGE/CONTAINER: BAGGED		TRADE NAMES & SYNONYMS: CONCRETE PATCH		MATERIAL USE: TO PATCH CONCRETE
SECTION 2 - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	UN, NA or CAS	EXPOSURE LIMITS TLV® PEL® OTHER®	
Silica quartz sand and powder	40-60%	CAS: 14808-60-7	ACGIH TLV-TWA: 0.1 mg respirable quartz dust/m ³ . OSHA-PEL (8 hr TWA): (10 mg respirable dust/m ³)/ (% SiO ₂ + 2); NIOSH REL (8 hr TWA): 0.05 mg respirable quartz dust/m ³ ; LD 50: ipr rat LD Lo 400mg/kg; LC 50: TWA 50 µg/m ³ .	
Portland cement (Also known as hydraulic cement being a mixture of calcium and silicates and aluminate and calcium sulfate dihydrate)	20-40%	CAS: 65997-15-1	ACGIH TLV-TWA 10 mg total dust/m ³ . OSHA PEL (8 hr TWA): 10 mg total dust/m ³ ; LC 50 : TWA 50 mppcf	
SECTION 3 - PHYSICAL DATA				
PHYSICAL: SOLID (powder) <input type="checkbox"/>	ODOUR & APPEARANCE: Non odorous light grey powder			ODOUR THRESHOLD (PPM): N/A
VAPOUR PRESSURE: N/A	VAPOUR DENSITY: N/A	EVAPORATION RATE: N/A	BOILING POINT: N/A	MELTING POINT: >1000°C
VOLATILE (by volume): N/A	SOLUBILITY IN WATER: Slightly soluble (0.1-1.0%)	pH (in water, ASTM D 1293-95): 12-13.	SPECIFIC GRAVITY (H ₂ O=1): 3-4	
SECTION 4 - FIRE AND EXPLOSION DATA				
FLAMMABILITY: NON FLAMMABLE	IF YES, UNDER WHAT CONDITIONS? N/A			
MEANS OF EXTINCTION: N/A				
SPECIAL PROCEDURES OR UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A				
FLASHPOINT & METHOD: N/A	UPPER EXPLOSION LIMIT: N/A		LOWER EXPLOSION LIMIT: N/A	
AUTO IGNITION TEMPERATURE: N/A	TDG FLAMMABILITY CLASSIFICATION: N/A		HAZARDOUS COMBUSTION PRODUCTS: N/A	
EXPLOSION/SENSITIVITY TO IMPACT DATA:	RATE OF BURNING: N/A	EXPLOSIVE POWER: N/A	SENSITIVITY TO STATIC DISCHARGE: NONE	
SECTION 5 - REACTIVITY DATA				
CHEMICAL STABILITY: STABLE	Addition of water results in hydration and produces caustic calcium hydroxide.			
INCOMPATIBILITY WITH OTHER SUBSTANCES: When wet the material is alkaline. As such it is incompatible with acids, ammonium salts and metallic aluminium.				
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR	CONDITIONS TO AVOID: Avoid contact of both the dry powder and wet product with mineral acids or reactive amphoteric metals such as aluminium, zinc or tin.			
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with amphoteric metals will result in generation of hydrogen gas.				

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SECTION 6 - TOXICOLOGICAL PROPERTIES			
ROUTE OF ENTRY SKIN CONTACT X SKIN ABSORPTION x EYE CONTACT X INHALATION ACUTE X INHALATION CHRONIC X INGESTION X			
EFFECTS OF ACUTE EXPOSURE/CHRONIC EXPOSURE INHALATION: Prolonged exposure to airborne free crystalline silica may cause delayed lung injury including silicosis. Exposure to portland cement may cause irritation to the mucous membranes and upper respiratory system..			
INGESTION: Ingestion of small quantities of portland cement are not known to be harmful, ill effects are likely if larger quantities are consumed.			
EYES: Exposure to airborne dust may cause irritation or inflammation. Splashes of the wet (alkaline) product will cause effects ranging from moderate irritation to BLINDNESS. Such exposure requires immediate first aid and medical attention to prevent serious damage to the eye (see below).			
SKIN: Exposure to the dry product may cause drying of the skin and irritation. Contact of wet skin with the powder, or of dry skin with the wet product, may result in more severe effects such as cracking or fissuring of the skin. Prolonged exposure may result in severe chemical (caustic) burns.			
LD50 OF MATERIAL or LC50 OF MATERIAL (SPECIFY SPECIES & ROUTE) (SPECIFY SPECIES & ROUTE) Although the LD50 and LC50 of the product have not been determined, it is probably similar to that of the primary ingredients (silica sand and powdery and portland cement: see above).			IRRITANCY OF MATERIAL
SENSITIZING CAPABILITY OF MATERIAL: pre-existing upper respiratory and lung diseases may be aggravated by inhalation or dermal exposure.	CARCINOGENICITY: Crystalline silica is classified by IARC as a known human carcinogen (Group 1). NTP describes respirable silica as "reasonably anticipated to be a carcinogen". Portland cement is not listed as a carcinogen by the NTP, IARC or OSHA.	REPRODUCTIVE EFFECTS OF MATERIAL: Not known	SYNERGISTIC MATERIALS: Not known
SECTION 7 - PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT: RUBBER, NEOPRENE OR PVC GLOVES FOR WET MIXTURE			
GLOVES: Yes (see below)	RESPIRATORY (SPECIAL) SELF CONTAINED ® AIRLINE ® CARTRIDGE ® DUST x OTHER ®	EYE (SPECIFY): See below	
FOOTWEAR: See below	CLOTHING (SPECIFY):	OTHER (SPECIFY):	
ENGINEERING CONTROLS eg (VENTILATION, ENCLOSED PROCESS, SPECIFY) VENTILATION: LOCAL x GENERAL ® SPECIAL PROCEDURE ®:			
LEAK AND SPILL PROCEDURE: Wear appropriate personal protective equipment as described below. Scoop spilled dry material in such a way as to avoid the dust becoming airborne. Scrape wet material and place in appropriate container			
WASTE DISPOSAL: Allow to set before disposal according to local, provincial or federal regulations. DO NOT WASH WET PRODUCT DOWN DRAINS.			
HANDLING PROCEDURES: Avoid actions that cause dust to become airborne. Use local or general ventilation to control exposure below acceptable exposure limits. Use NIOSH/MSHA approved (under 30 CFR 11) or NIOSH approved (under CFR 84) respirators in poorly ventilated areas, if the applicable exposure limit is exceeded, or when dust causes discomfort or irritation. (Note: respirators and filters purchased after 7/10/98 must be certified under 42 CFR 84). Prevention of contact is essential to avoid skin injury. Where prolonged exposure to the unhardened product might occur, wear impervious clothing, gloves and footwear to eliminate skin contact. If contact occurs promptly wash affected area with copious quantities of water. Barrier creams NOT TO BE USED in place of gloves. Promptly remove dusty clothing, or any which is wet with cement fluids and launder before re-use. For eye protection in dusty or unpredictable environments wear unvented or indirectly vented goggles to avoid eye injury. Contact lenses should not be worn.			
STORAGE REQUIREMENTS: Keep product dry until used. Normal temperatures and pressures do not affect the material			
SPECIAL SHIPPING INFORMATION: Silica sand and portland cement are not hazardous under U.S. Department of Transportation (DOT) guidelines.			
SECTION 8 – FIRST AID MEASURES			
INHALATION: Remove to fresh air. Seek immediate medical help if coughing and other symptoms do not quickly subside.			
INGESTION: Do not induce vomiting. If conscious have the victim drink plenty of water and call a physician immediately.			
EYES: Immediately flush eyes thoroughly with water, and continue to irrigate for at least 15 minutes, including under lids in order to remove all particles. Contact physician if irritation persists			
SKIN: Wash skin with water and pH neutral soap or mild detergent. Seek medical attention if irritation persists.			
ADDITIONAL TREATMENTS: NOTE:			
NOTES TO PHYSICIAN:			
SOURCES USED: (i) MANUFACTURER'S MATERIAL SAFETY DATA SHEETS FOR RAW MATERIALS. (ii) N IRVING SAX, DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, SIXTH EDITION, VAN NOSTRAND REINHOLD. (iii) AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, THRESHOLD LIMIT VALUES AND BIOLOGICAL EXPOSURE INDICES FOR 1987-1988. (iv) CANADIAN CENTRE FOR OCCUPATIONAL HEALTH & SAFETY, CHEMICAL HAZARD SUMMARY, NON-CRYSTALLINE SILICAS, CRYSTALLINE SILICAS. (v) OCCUPATIONAL HEALTH & SAFETY CANADA, THE BUYERS' GUIDE 1987/88. (vi) SUMMARY OF INTERNATIONAL AGENCY FOR RESEARCH OF CANCER (IARC) MONOGRAPHS 1986			
PREPARED BY (GROUP, DEPARTMENT, ETC) KWIK MIX MATERIALS LIMITED		PHONE NUMBER (OFFICE) (905) 834-6177	DATE: JANUARY 2009

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