



1-1-6 Mortar

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name 1-1-6 Mortar
Product Identifier 1-1-6 Mortar
MSDS No. 0066
Product Family Masonry-Type N Mortars
Manufacturer / Supplier King Packaged Materials Company, 3385 Harvester Road, Burlington, Ontario, L7R 3Y5

Emergency Contact Information King Packaged Materials Company, (800) 461-0566, 8:30am-4:30pm

Use Ideal for use in laying clay, concrete and stone masonry units. Can be applied indoors, outdoors or for any other masonry application where high bond strength is required. Ideal for parging and repointing.

2. HAZARDS IDENTIFICATION

Potential Health Effects

Route of Exposure Inhalation; ingestion; skin absorption.

Inhalation Exposure to airborne concentrations above exposure limits may cause irritation of the nose, throat and lungs.

Skin Contact May cause dry skin, discomfort and irritation.

Eye Contact Airborne dust may cause immediate or delayed irritation or inflammation.

Effects of Long-Term (Chronic) Exposure Risk of injury depends on duration and level of exposure. This product contains crystalline silica. Prolonged or repeated inhalation of the respirable crystalline silica can cause silicosis, a seriously disabling and potentially fatal lung disease. See Section 4 for further information.

Carcinogenicity CARCINOGEN. Known to cause: lung cancer. Risk of cancer depends on duration and level of exposure.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Registry No.	Concentration %	Other Identifiers
Silica, total quartz	14808-60-7	60-100%	
Portland cement	65997-15-1	10-30%	
Hydrated Lime	58398-71-3	5-10%	

Notes Other additives not controlled through WHMIS or other legislation.

4. FIRST AID MEASURES

First Aid Procedures

Inhalation Move victim to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

Skin Contact Seek medical attention for rash, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement.

Eye Contact Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Seek medical attention for abrasions.

Ingestion NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. If conscious, give victim a glass of water or milk. Immediately call a Poison Centre or doctor.

Note to Physicians Additional Notes - Silicosis - There are three (3) types of silicosis:

- 1) Simple chronic silicosis - which results from long-term exposure (more than 20 years) to low amounts of respirable crystalline silica. Nodules of chronic inflammation and scarring provoked by the respirable crystalline silica form in the lungs and chest lymph nodes. This disease may feature breathlessness and may resemble chronic obstructive pulmonary disease (COPD).
- 2) Accelerated silicosis - occurs after exposure to larger amounts of respirable crystalline silica over a shorter period of time (5-15 years). Inflammation, scarring, and symptoms progress faster in accelerated silicosis than in simple silicosis.
- 3) Acute silicosis - results from short-term exposure to very large amounts of respirable crystalline silica. The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels.

Progressive massive fibrosis may occur in simple or accelerated silicosis, but is more common in the accelerated form. Progressive massive fibrosis results from severe scarring and leads to the destruction of normal lung structures.

5. FIRE FIGHTING MEASURES

Flammable Properties Does not burn.

Suitable Extinguishing Media Not combustible. Use extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from the Chemical None known.

Protective Equipment and Precautions for Firefighters Quartz is a carcinogen and chronic inhalation hazard. Firefighters may enter the area if positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) and full Bunker Gear is worn. Wash down contaminated Bunker gear with water to remove any quartz fibres.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use the Personal Protective Equipment recommended in Section 8 of this MSDS. Avoid inhalation of the product and contact with skin.

Environmental Precautions Do not allow into any sewer, on the ground or into any waterway.

Methods for Containment and Clean-up Avoid actions that cause the product to become airborne. Scrape wet product and place in container. Allow material to dry or solidify before disposal.

7. HANDLING AND STORAGE

Handling Always use good industrial hygiene practices and safety guidelines. Only use where there is adequate ventilation. Avoid generating dusts. Bagged product is heavy and poses risks such as sprains and strains to the back, the arms, the shoulders and the legs during lifting and mixing.

Storage Store in an area that is: dry. Keep away from food and drinking water. Keep containers tightly closed when not in use. Store in the original, labelled, shipping container. Stack bagged material in a secure manner to prevent falling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Silica, total quartz	0.05 mg/m ³ (R) A2		0.1 mg/m ³			
Portland cement	1 mg/m ³ (R) A4		5 mg/m ³ (R)			

Exposure Guideline Comments Emissions from ventilation or work process equipment should be checked to ensure their compliance with environmental protection legislation requirements. In some cases, it may be necessary to modify process equipment to reduce emissions to acceptable levels.

Engineering Controls If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment (PPE)

Eye/Face Protection Approved safety eye wear should be worn, based on the risk assessments performed.

Skin Protection Personal protective equipment for the body should be selected based on the task being performed. This includes gloves, coveralls and footwear.

Respiratory Protection Use of an approved respirator, based on a risk assessment is necessary. Respiratory protection should be selected based on the known or anticipated levels of exposure, and the work being performed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	powder.
Odour	Odourless
Odour Threshold	Not available
Boiling Point	Not available
Freezing Point	Not available
Relative Density (water = 1)	2.5
pH	Not available
Partition Coefficient, n-Octanol/Water	Not available
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Evaporation Rate	Not applicable
Flash Point	Not applicable
Lower Flammable/Explosive Limit	Not applicable
Upper Flammable/Explosive Limit	Not applicable
Auto-ignition Temperature	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Conditions to Avoid	Water, moisture or humidity.
Incompatible Materials	None known.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of Hazardous Reactions	None known.

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11. TOXICOLOGICAL INFORMATION

LC50/LD50 Values

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Silica, total quartz		500 mg/kg (rat)	

LC50: No information was located.

LD50 (dermal): No information was located.

Skin Irritation / Corrosion

No information was located.

Eye Irritation / Corrosion

Animal tests show corrosive eye damage.

Effects of Short-Term (Acute) Exposure

Inhalation

At low concentrations: May cause lung inflammation At high concentrations: May cause nose and throat irritation. lung inflammation. (Silica, total quartz)

Effects of Long-Term (Chronic) Exposure

Lung damage, such as inflammation, silicosis (scarring of the lungs) and alveolar proteinosis (a condition where a type of protein builds up in the alveoli) have been observed in several different animal species following exposures to quartz ranging from one week to 27 months. (Silica, total quartz)

Respiratory and/or Skin Sensitization

Not a skin sensitizer. Not a respiratory sensitizer. Reactions have been observed after crystalline silica has accidentally gotten lodged under the skin, as the result of a physical injury. Often this effect is delayed for weeks to years.(1).

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silica, total quartz	Group 1	A1	Known carcinogen	

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A1 = Confirmed human carcinogen. IARC = International Agency for Research on Cancer. Group 1 = Carcinogenic to humans. NTP = National Toxicology Program. Known carcinogen = Known human carcinogen.

Teratogenicity / Embryotoxicity

No information was located.

Reproductive Toxicity

No information was located.

Mutagenicity

No information was located.

Toxicologically Synergistic Materials

No information was located.

12. ECOLOGICAL INFORMATION

General Comments There are no known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Store product for disposal as described under Storage in Section 7 of this MSDS.

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14. TRANSPORT INFORMATION

Shipping Information

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

Other Transport Information

Special Shipping Information Not applicable

15. REGULATORY INFORMATION

Canada

WHMIS Classification



Class D2A



Class E

D2A - Very Toxic; E - Corrosive

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

MSDS Prepared By King Packaged Materials

Phone No. 450-430-4104

Date of Preparation May 13, 2015

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