

# **Material Safety Data Sheet**

# **In-Pakt Construction Grout**

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name In-Pakt Construction Grout
Product Identifier In-Pakt Construction Grout

**MSDS No.** 0103

Product Family Construction Products-Grout

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** Grouting machinery base plates and column sole plates. Grouting anchor bolts, dowels and

hand rails. Repair of precast units. Infill of pipes and sleeves.

# 2. HAZARDS IDENTIFICATION

#### **Potential Health Effects**

Route of Exposure Inhalation; ingestion; skin contact; eye contact.

**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. Repeated or prolonged exposure can irritate or

burn the skin.

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

severe burns with redness, swelling, pain and blurred vision. Permanent damage including

blindness can result.

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.

Medical Conditions

Aggravated by 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.

# 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%	
Fly Ash	68131-74-8	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.

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Skin Contact Quickly take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts).

Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5

minutes.

**Eye Contact** 

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If irritation or pain persists, see a doctor.

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

**Specific Hazards** Arising from the

Chemical

and Precautions for

**Firefighters** 

None known.

Protective Equipment 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. Restrict

access to area until completion of clean up. Ensure clean-up is conducted by trained personnel

wearing appropriate respiratory protection and chemical protective clothing.

**Environmental Precautions** 

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

Methods for Containment and Clean-up

Avoid dry sweeping. If necessary, use a dust suppressant such as water. Do not use compressed air for clean-up. Allow material to dry or solidify before disposal. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Dike and recover contaminated water for appropriate disposal. Flush area with water.

# 7. HANDLING AND STORAGE

Handling

Only use where there is adequate ventilation. Avoid generating dusts. Good housekeeping is extremely important. Prevent dust accumulation on ALL surfaces including ceiling rafters and other hidden surfaces. 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.

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Store in an area that is: dry. Store in the original, labelled, shipping container. Prevent dust build-up on ALL surfaces. Clean frequently. Avoid dry-sweeping. Use vacuum cleaner equipped with high efficiency filter. Keep away from food and drinking water.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Exposure Guidelines**

Chemical Name	ACGIH 7	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA	
Silica, total quartz	0.05 mg/m3 (R) A2		0.1 mg/m3				
Portland cement	1 mg/m3 (R) A4		5 mg/m3 (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. ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. A2 = Suspected human carcinogen. R = Respirable fraction. OSHA = US Occupational Safety and Health Administration. A4 = Not classifiable as a human carcinogen.

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)**

**Eve/Face Protection Skin Protection** 

Do not get in eyes. Wear chemical safety goggles and face shield when contact is possible. Personal protective equipment for the body should be selected based on the task being performed. This includes gloves, coveralls and footwear. Approved gloves should be worn based on risk assessments.

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

Grey - white powder. **Appearance** 

Odour Odourless **Odour Threshold** Not available **Boiling Point** Not available **Melting Point** Not available **Freezing Point** Not available

Relative Density (water = 1) 2.65

Reacts with water to form an alkaline solution.

Partition Coefficient,

n-Octanol/Water

Not applicable

**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

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# 10. STABILITY AND REACTIVITY

Chemical Stability Normally stable.

**Conditions to Avoid** Accidental contact with water. Generation of dust.

Incompatible Materials

None known.

Hazardous

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**Decomposition Products** 

None known.

Possibility of

ibility of None known.

**Hazardous Reactions** 

# 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**

No information was located.

# Effects of Short-Term (Acute) Exposure

#### Inhalation

At high concentrations: May cause nose and throat irritation.

# 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.

### Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not a skin 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. A2 = Suspected 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.

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# 12. ECOLOGICAL INFORMATION

**General Comments** This section is not required by WHMIS.

# 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.

# 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 (Chronic toxicity; Carcinogenicity); 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.

# **USA**

#### **US OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

# **16. OTHER INFORMATION**

MSDS Prepared By King Packaged Materials

**Phone No.** 905-639-2993 **Date of Preparation** November 09, 2012

**Disclaimer**To the best of our knowledge, the information contained herein is accurate. However, neither

KPM Industries Ltd., nor any of its subsidiaries, assumes any liability whatsoever for the

accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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