

# SAFETY DATA SHEET

Issuing Date 30-Apr-2015 Revision Date 30-Apr-2015 Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

## **GHS** product identifier

Product Name Portland Cement Based Products

Other means of identification

Synonyms Pakmix Concrete, Pakmix Fiber Reinforced Concrete, Pakmix Super 5000 Concrete Mix, Pakmix Type I/II Portland Cement Pakmix Fast Set Concrete, Pakmix Instant Post Set, Pakmix Sand Mix, Pakmix Crack Resistant Concrete, Pakmix Type N Masonry Cement Pakmix Type S Masonry Cement, Pakmix Mortar Mix, Pakmix Type S Mortar Mix, Pakmix Vinyl Concrete, Pakmix Anchor Cement Pakmix Surface Bonding Cement, Pakmix Glass Block Mortar, Pakmix Veneer Stone Mix, Pakmix Fast Setting Repair Mortar Pakmix Commercial Grade Grout, Pakmix Non-Shrink Grout, Pakmix Precision Non Shrink Grout, Pakmix Stop Leak, PM Fastset Acelerator

## Recommended use of the chemical and restrictions on use

Recommended Use Footings, Slab, Posts, Block and Mortar Repair

Uses advised against No information available

Supplier's details

**Supplier Address** 

Pakmix PO Box 1561

Middlesboro, KY 40965 TEL: 800-272-5649

#### **Emergency telephone number**

**Emergency Telephone** 

Number

800-272-5649

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 1A
Specific Target Organ Toxicity (Repeated Exposure)	Category 2

## GHS Label elements, including precautionary statements

## **Emergency Overview**

Signal Word Danger

Hazard Statements

- Harmful if swallowed
- Causes severe skin burns and eye damage
- May cause cancer
- May cause damage to organs through prolonged or repeated exposure



**Appearance** Gray

Physical State Solid (powder).

Odor No information available

## **Precautionary Statements**

#### Prevention

- · Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- · Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- · Wear eye/face protection.
- Do not breathe dust/fume/gas/mist/vapors/spray.

#### **General Advice**

- Immediately call a POISON CENTER or doctor/physician.
- Specific treatment (see supplemental first aid instructions on this label)

#### **Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

#### Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- · Wash contaminated clothing before reuse.

#### Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.
- · Do NOT induce vomiting.

#### Storage

Store locked up.

#### **Disposal**

• Dispose of contents/container to an approved waste disposal plant.

## **Hazard Not Otherwise Classified (HNOC)**

Not applicable

#### Other information

50% of the mixture consists of ingredient(s) of unknown toxicity.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Synonyms**

Pakmix Concrete, Pakmix Fiber Reinforced Concrete, Pakmix Super 5000 Concrete Mix, Pakmix Fast Set Concrete, Pakmix Instant Post Set, Pakmix Sand Mix

Chemical Name	CAS-No	Weight %	Trade secret
Quartz	14808-60-7	40-70	*

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Portland cement	65997-15-1	10-30	*
Silica	7631-86-9	5-15	*
Limestone	1317-65-3	5	*
Gypsum (Ca(SO4).2H2O)	13397-24-5	5	*
Aluminum oxide	1344-28-1	5	*

<sup>\*</sup> Where range is displayed, the exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

**Description of necessary first-aid measures** 

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

**Skin Contact**Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Immediate medical attention is required.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth

to an unconscious person. If symptoms persist, call a physician.

**Protection of First-aiders**Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Corrosive Serious eye irritation or damage. Skin irritation

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

## **Specific Hazards Arising from the Chemical**

Avoid dust formation.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust

formation. Avoid inhalation of dust. Ensure adequate ventilation.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological Information.

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#### Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Clean up promptly by scoop or vacuum. Dispose of promptly. Clean

contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid dust

formation. Do not breathe dust. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke during manufacturing use of this product. Do not take internally. Wash thoroughly

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after handling. Remove and wash contaminated clothing before re-use.

## Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place.

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**Incompatible Products** Strong oxidizing agents. Acids. Phosphorus.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control parameters**

## **Exposure Guidelines**

Chamical Name

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz 14808-60-7	TWA: 0.025 mg/m³ respirable fraction	30/(%SiO2+2) mg/m³ TWA, Total Dust;250/%SiO2+5) mppcf TWA,	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust
		respirable fraction; 10/(%SiO2+2) mg/m³ TWA, respirable	
		TWA: 0.1 mg/m³ (vacated)	
Portland cement	TWA: 1 mg/m³ particulate matter	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
65997-15-1		TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust
	crystalline silica, respirable fraction	(vacated) TWA: 10 mg/m³ total dust	TWA: 5 mg/m³ respirable dust
	liaction	(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
		TWA: 50 mppcf <1% Crystalline	
		silica	
Silica	-	(vacated) TWA: 6 mg/m³ <1%	IDLH: 3000 mg/m <sup>3</sup>
7631-86-9		Crystalline silica TWA: 20 mppcf	TWA: 6 mg/m <sup>3</sup>
		: (80)/(% SiO2) mg/m³ TWA	
Limestone	-	TWA: 15 mg/m <sup>3</sup>	TWA: 5 mg/m³ respirable dust
1317-65-3		TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m³ total dust
		(vacated) TWA: 15 mg/m <sup>3</sup>	
Gypsum (Ca(SO4).2H2O)	TWA: 10 mg/m <sup>3</sup> inhalable	(vacated) TWA: 5 mg/m³ TWA: 15 mg/m³ total dust	TWA: 10 mg/m³ total dust
13397-24-5	fraction	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust
10001 21 0	l action	(vacated) TWA: 15 mg/m³ total	TWA SINGAN TOOPHADIO AUGU
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
AL	T10/0 4 / 3 : 11 / 3 :	respirable fraction	
Aluminum oxide 1344-28-1	TWA: 1 mg/m³ respirable fraction	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction	-
1044 201		(vacated) TWA: 10 mg/m³ total	
		dust	
		(vacated) TWA: 5 mg/m³	
		respirable fraction	

#### Appropriate engineering controls

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**Engineering Measures** Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and Body Protection** Lightweight protective clothing. Protective gloves.

Respiratory Protection A system of local and/or general exhaust is recommended to keep employee exposures as

low as possible If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA

None known

approved respiratory protection should be worn.

Hygiene Measures Provide regular cleaning of equipment, work area and clothing. Remove contaminated

clothing and protective equipment before entering eating or smoking areas.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State Solid (powder) Appearance Gray

Odor No information available Odor Threshold No information available

Property Values Remarks/ - Method

13 None known pН >1482.2 °C / >2700 °F **Melting Point/Range** None known > 1482.2 °C / >2700 °F **Boiling Point/Boiling Range** None known **Flash Point** No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limits in Air

upper flammability limitNo data availablelower flammability limitNo data availableVapor PressureNo data available

None known **Vapor Density** No data available None known **Specific Gravity** 2.6 - 3.15 None known **Water Solubility** Slightly soluble None known Solubility in other solvents 0 g/l. None known Partition coefficient: n-octanol/waterNo data available None known No data available **Autoignition Temperature** None known None known

Decomposition Temperature

Viscosity

No data available

No data available

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) No data available

## 10. STABILITY AND REACTIVITY

## Reactivity

No data available.

#### **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### **Conditions to avoid**

Dust formation. Incompatible products.

## **Incompatible materials**

Strong oxidizing agents. Acids. Phosphorus.

## **Hazardous decomposition products**

Silicon oxides. Calcium oxides

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

**Eye Contact** Corrosive to the eyes and may cause severe damage including blindness. Causes serious

eye damage. Dust contact with the eyes can lead to mechanical irritation.

**Skin Contact**Corrosive. Dusts may cause mechanical irritation. May cause severe irritation and possibly

burns, especially in contact with broken skin.

Ingestion Harmful if swallowed. Ingestion of corrosive substances can cause burns of the upper

digestive and respiratory tract.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

## Delayed and immediate effects and also chronic effects from short and long term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Crystalline silica (quartz) has been classified by the International Agency for Research on

Cancer (IARC) as a known human carcinogen (Group 1).

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz	A2	Group 1	Known	X
Silica		Group 3		

## ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to its Carcinogenicity to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)** 

X - Present

Reproductive Toxicity No information available.

STOT - single exposure No information available.

May cause damage to organs through prolonged or repeated exposure. STOT - repeated exposure

Inhalation overexposure to free crystalline silica may cause delayed lung injury including **Chronic Toxicity** silicosis, a disabling and potentially fatal lung disease. Inhalation exposure to respirable

levels of crystalline silica may cause respiratory impairment and lung damage.

No information available. **Aspiration Hazard** 

Numerical measures of toxicity - Product

**Acute Toxicity** 50% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 607 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Silica 7631-86-9	EC50 72 h: = 440 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 5000 mg/L static (Brachydanio rerio)		EC50 48 h: = 7600 mg/L (Ceriodaphnia dubia)
Aluminum oxide 1344-28-1		LC50 96 h: > 100 mg/L semistatic (Salmo trutta)		LC50 48 h: > 100 mg/L (daphnia magna)

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

# **Other Adverse Effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

DOT Not regulated

## 15. REGULATORY INFORMATION

## **International Inventories**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# **U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Acute Health Hazard
Chronic Health Hazard
Yes
Fire Hazard
No
Sudden Release of Pressure Hazard
Reactive Hazard
No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## U.S. State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Quartz	14808-60-7	Carcinogen

## U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Quartz	X	Х	X	-	X
Portland cement	X	X	X		X
Silica	X	Х	X		
Limestone	X	X	X		X
Gypsum (Ca(SO4).2H2O)	Х		Х		X
Aluminum oxide	X	Х	Х		Х

## **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION				
NFPA	Health Hazard 3	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 3	Flammability 0	Physical Hazard 0	Personal Protection X

Prepared By
Product Stewardship
23 British American Blvd.

Latham, NY 12110 1-800-572-6501 30-Apr-2015

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#### **General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**