

## Material Name: Ready Mix Concrete, Freshly Mixed Unhardened Concrete

## Section 1 – Product and Company Identification

Manufacturer Information Peckham Industries Inc.

172 Prospect Hill Rd, Brewster, NY 10509 Phone: 914-949-2000 www.peckham.com

## Section 2 – Hazards Identification

### **GHS Classification:**

Acute Toxicity Oral – Category 4 Acute Toxicity Dermal – Category 4 Acute Toxicity Inhalation – Category 3 Skin Corrosion/Irritation – Category 1B Eye Damage – Category 1 Respiratory Sensitization – Category 1 Skin Sensitization – Category 1 Carcinogenicity – Category 1A Specific Target Organ Toxicity Repeat Exposure – Category 1

### **GHS LABEL ELEMENTS**

Symbol(s)



### Signal Word

Danger Hazard Statements Harmful if swallowed. Harmful in contact with skin. Toxic if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer. Causes damage to organs through prolonged or repeated exposure (lungs).

## Material Name: Ready Mix Concrete, Freshly Mixed Unhardened Concrete

### **Precautionary Statements**

## Prevention

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection.

## Response

If swallowed; Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

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/doctor.

## Storage

Store in a well-ventilated place. Store in an appropriate container or containment structure.

## Disposal

Dispose of contents/container in accordance with local/regional/international regulations.

## Section 3 – Composition / Information on Ingredients

CAS #	Component	Percent
Not Available	Aggregates	36-92
65997-15-1	Cement, portland, chemicals	2-26
68131-74-8	Ashes, residues	0-25
7732-18-5	Water	6-13
14808-60-7	Quartz	5-13

## Component Information/Information on Non-Hazardous Components General Product Information

Trace Elements: Ready-Mix concrete is made from materials mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

## Material Name: Ready Mix Concrete, Freshly Mixed Unhardened Concrete

### **Section 4 – First Aid Measures**

### First Aid: Eyes

Immediately flush eyes thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

### First Aid: Skin

Wash skin with cool water and pH-neutral soap or a mild detergent intended for use on skin. Seek medical treatment in all cases of prolonged exposure wet concrete, liquids from wet concrete products, or prolonged wet skin exposure to the dry ingredients in Ready-Mix concrete.

### **First Aid: Ingestion**

Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

#### **First Aid: Inhalation**

Remove to fresh air. Seek medical help if coughing and other symptoms do not subside. (Inhalation of gross amounts of the dry ingredients in Ready-Mix concrete requires immediate medical attention.)

### Section 5 – Fire Fighting Measures

## General Fire Hazards

See Section 9 for Flammability Properties.

Non-combustible.

## Hazardous Combustion Products

None

### **Extinguishing Media**

Use appropriate extinguishing media for surrounding fire.

### Unsuitable Extinguishing Media

None

## Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

## Section 6 – Accidental Release Measures

#### **Recovery and Neutralization**

Stop the flow of material, if this is without risk.

### Materials and Methods for Clean-Up

Collect dry material using a scoop. Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin. Scrape up wet material and place in an appropriate container. Allow the material to harden before disposal.

#### **Emergency Measures**

Isolate area. Keep unnecessary personnel away.

### **Personal Precautions and Protective Equipment**

Wear appropriate personal protective equipment as described in Section 8.

## **Environmental Precautions**

Do not attempt to wash wet concrete down sewers or storm drains.

#### **Prevention of Secondary Hazards**

None

## Material Name: Ready Mix Concrete, Freshly Mixed Unhardened Concrete

### Section 7 – Handling and Storage

### Handling Procedures

Avoid prolonged or repeated breathing of dust. Avoid contact with eyes and skin. Promptly remove dusty clothing or clothing which is wet with concrete and launder before reuse. Wash thoroughly after exposure to dust or wet concrete mixtures.

### **Storage Procedures**

Normal temperatures and pressures do not affect the material.

#### Incompatibilities

Wet Ready-Mix concrete is alkaline. As such it is incompatible with acids, ammonium salts and aluminum metal.

### Section 8 – Exposure Controls/ Personal Protection

### **Component Exposure Limits**

### Cement, portland, chemicals (65337-15-1)

ACGIH: 1 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)

OSHA: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

NOISH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)

## Quartz (14808-60-7)

ACGIH: 0.025 mg/m3 TWA (respirable fraction)

NOISH: 0.05 mg/m3 TWA (respirable dust)

## **Engineering Measures**

Avoid actions that cause dust to become airborne. Use local exhaust or general dilution ventilation to control exposure within applicable limits.

### **Personal Protective Equipment: Respiratory**

Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

## **Personal Protective Equipment: Hands**

Where prolonged exposure to unhardened concrete products might occur, wear impervious gloves to eliminate skin contact. Do not rely on barrier creams; barrier creams should not be used in place of gloves. Periodically was areas contacted by wet cement or its dry ingredients with a pH neutral soap and water. Wash again at the end of the work. If irritation occurs, immediately was the affected area and seek treatment.

#### **Personal Protective Equipment: Eyes**

When engaged in activities where wet concrete or its dry ingredients could contact the eye, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unventilated or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with wet concrete or its dry ingredients.

Revision 2.0000

## Material Name: Ready Mix Concrete, Freshly Mixed Unhardened Concrete

### Personal Protective Equipment: Skin and Body

Where prolonged exposure to unhardened concrete products might occur, wear impervious clothing to eliminate skin contact. Where required, wear boots that are impervious to water to eliminate foot and ankle exposure. If clothing becomes saturated with wet concrete, it should be removed and replaced with clean dry clothing.

## Section 9 – Physical & Chemical Properties

Appearance:	Gray granular mixture	Odor:	None	
Physical State:	Liquid, semi-sold	pH:	12-13 (in water)	
Vapor Pressure:	Not Applicable	Vapor Density:	Not Applicable	
<b>Boiling Point:</b>	Not Applicable	Melting Point:	Not Applicable	
Solubility (H20):	Slightly soluble	VOC:	Not Determined	
Evaporation Rate:	Not Applicable	Flash Point:	None	
Octanol/H20 Coeff:	Not Determined	Upper Flammability Limit: None		
Flash Point Method:	None	(UFL):		
		Specific Gravity:	1.70-3.00	
Lower Flammability Limit: None		<b>Burning Rate:</b>	None	
(LFL):				
Auto Ignition:	Not Combustible			

## Section 10 – Chemical Stability & Reactivity Information

### **Chemical Stability**

This is a stable material.

### **Hazardous Reaction Potential**

## Will not occur.

## Incompatible Products

Wet Ready-Mix concrete is alkaline. As such it is incompatible with acids, ammonium salts and aluminum metal. Hazardous Decomposition Products

Will not spontaneously occur. Adding water results in hydration and produces (caustic) calcium hydroxide.

## Section 11 – Toxicological Information

## Acute Toxicity

### Component Analysis - LD50/LC50

**Ashes, residues (68131-74-8)** Oral LD50 Rat >2000 mg/kg

### Water (7732-18-5) Oral LD50 Rat>90 mL/kg

**Quartz (14808-60-7)** Oral LD50 Rat 500 mg/kg

## Material Name: Ready Mix Concrete, Freshly Mixed Unhardened Concrete

## Potential Health Effects: Skin Corrosion Property/Stimulativeness

Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure. Consequently, the only effective means of avoiding skin injury or illness involves minimizing skin contact, particularly contact with wet concrete. Exposed persons may not feel discomfort until hours after the exposure has ended and significant injury has occurred. Exposure during the handling or mixing of the dry ingredients in Ready-mix concrete may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Exposure to wet concrete may cause more severe skin effects including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of (caustic) chemical burns.

## Potential Health Effects: Eye Critical Damage/Stimulativeness

Exposure to airborne dust during the handling or mixing of the dry ingredients in Ready-mix concrete may cause immediate or delayed irritation or inflammation. Eye contact by splashes of wet concrete may cause effects ranging from moderate eye irritation to chemical burns and blindness. Such exposures require immediate first aid (see Section 4) and medical attention to prevent significant damage to the eye.

### Potential Health Effects: Ingestion

Although inadvertent ingestion of small quantities of wet concrete or its dry ingredients are not known to be harmful, accidental ingestion of larger quantities can be harmful and requires immediate medical attention.

## **Potential Health Effects: Inhalation**

The ingredients in Ready-Mix concrete contain crystalline silica. Exposure to these ingredients in excess of the applicable TLV or PEL (see Section 2) may cause or aggravate other lung conditions. Exposure to the dry ingredients in Ready-Mix concrete may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system.

### **Respiratory Organs Sensitization/Skin Sensitization**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Some individuals may exhibit an allergic response upon exposure to wet concrete. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers. Persons already sensitized may react to their first contact with the product. Other persons may first experience this effect after years of contact with wet unhardened concrete products.

### **Generative Cell Mutagenicity**

This product is not reported to have any mutagenic effects.

### Carcinogenicity

## **A: General Product Information**

May cause cancer.

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease and/or lung cancer. IARC states that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

## **B.** Component Carcinogenicity

## Cement, portland, chemicals (65997-15-1)

ACGIH: A4- Not Classifiable as a Human Carcinogen

# Material Name: Ready Mix Concrete, Freshly Mixed Unhardened Concrete

-	-				
Quartz (14808-60-7)					
ACGIH:	A2- Suspected Human Carinogen				
NIOSH:	Potential occupational carcinogen				
NTP:	Known Human Carcinogen (respirable size) (Select Carcinogen)				
IARC:		(listed under Crystalline silica inhaled in for form of a occupational sources); Monograph 68 [1997] Group 1			
<b>Reproductive Toxicity</b>	(careinogenie to namans))	'			
-	orted to have any reproductive	e toxicity effects.			
Specified Target Organ Gen	• •	•			
		sure specific target organ toxicity effects.			
Specified Target Organ Gen	eral Toxicity: Repeated Ex	posure			
Causes damage to orga	ans through prolonged or repea	ated exposure (lungs).			
Aspiration Respiratory Orga	ans Hazard				
This product is not rep	orted to have any aspiration ha	azards			
Section 12 – Ecological	Information				
Ecotoxicity					
A. General Product Informa	tion				
This product is not rep	orted to have any ecotoxicity	effects.			
B. Component Analysis – Ec	otoxicity – Aquatic Toxicity	y			
Ashes, residues (6813	1-74-8)				
Test & Species		Conditions			
24 Hr EC50 Daphnia	i magna	140 – 2000 mg/L			
Persistence/Degradability					
No information availab	ble for the product.				
<b>Bio-accumulation</b>					
No information availab	ble for the product.				
Mobility in Soil					
No information availab	ble for the product.				
Section 13 – Disposal Co	onsiderations				
Waste Disposal Instructions					
		8 for Personal Protective Equipment recommendations.			
Disposal of Contaminated C	ontainers or Packaging				

Dispose of contents/container in accordance with local/regional/national/international regulations.

\*\*\* Section 14 – Transportation Information \*\*\*

## **DOT Information**

Shipping Name: Not Regulated.

Material Name: Ready Mix Concrete, Freshly mixed Unhardened Concrete

# \*\*\* Section 15 – Regulatory Information \*\*\*

### **Regulatory Information**

## **US Federal Regulations**

## **Component Analysis**

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4). **State Regulations** 

### **Component Analysis – State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Cement, portland, chemicals	65997-15-1	No	Yes	Yes	Yes	Yes	No
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	No

## **Component Analysis – WHMIS IDL**

Component	CAS #	Minimum Concentration
Quartz	14808-60-7	1.00%

## Additional Regulatory Information

## **Component Analysis – Inventory**

Component	CAS #	TSCA	CAN	EEC
Cement, portland, chemicals	65997-15-1	Yes	DSL	EINECS
Ashes, residue	68131-74-8	Yes	DSL	EINECS
Water	7732-18-5	Yes	DSL	EINECS
Quartz	14808-60-7	Yes	DSL	EINECS

Material Name: Ready Mix Concrete, Freshly Mixed Unhardened Concrete

Section 16 – Other Information				
Hazardous Material Information System (HMIS):	Health	1		
	Flammability	0		
	Physical Hazard	0		
	Personal Protection	В		

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme Protective Equipment: Safety glasses, gloves

## Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicity Program; OSHA = Occupational Safety and Health Administration; NJTSR = New Jersey Trade Secret Registry.

## Literature References

None

## **Other Information**

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY BYRAM, except that the product shall conform to contracted specifications. The information provided herein was believed by Byram to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for nondelivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

End of Sheet

Page 9 of 9

Issue Date: 3/12/2023

Revision 2.0000