

# MATERIAL SAFETY DATA SHEET

## I. PRODUCT AND COMPANY IDENTIFICATION

**Company:** Epoxy Systems, Inc.  
**Address:** 20774 West Pennsylvania Ave.  
Dunnellon, FL 34431  
**Product Name:** **Epoxy.com #1004**  
**Product Description:** **Cementitious Repair Mortar**  
**Emergency Contact No.:** 1-800-633-8253 (PERS)  
**Date Prepared or Revised:** March 2013

## COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names	CAS Numbers
Crystalline Silica	14808-60-7
Cement, Portland	65997-15-1
Calcium oxide	1305-78-8

The remaining ingredients are designated as "trade secret".

## III. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

May cause serious eye and skin irritation or damage  
When combined with water may cause moderate to severe alkali burns,  
Contains material that may cause cancer from inhalation crystalline Silica (Quartz)

### POTENTIAL HEALTH EFFECTS

#### ACUTE

**Eye Contact:** May cause eye irritation, swelling, tearing, redness or cornea damage.  
**Skin Contact:** Moderate irritation. May cause skin sensitization, evidenced by rashes and hives.  
**Inhalation:** Moderate irritation to the nose and respiratory tract.  
**Ingestion:** May cause irritation to the gastrointestinal tract.  
**Systemic Effects:** Lungs, eyes, and skin.

## IV. FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. If redness, burning, blurred vision, or swelling persists, **CONSULT A PHYSICIAN.**

**Skin Contact:** Remove product and immediately wash affected area with soap and water. Do not apply greases or ointments. Remove contaminated clothing. Wash clothing with soap and water before reuse. If redness, burning, or swelling persists, **CONSULT A PHYSICIAN.**

**Ingestion:** **Rinse mouth immediately DO NOT INDUCE VOMITING.**

**Inhalation:** Remove patient to fresh air. If patient continues to experience difficulty breathing, **CONSULT A PHYSICIAN.**

## V. FIRE-FIGHTING MEASURES

**Flashpoint:** N/A  
**Suitable Extinguishing Media:** Foam, water spray, dry powder, carbon dioxide  
**Unsuitable Extinguishing Media for Safety Reasons:** water jet  
**Additional Information:** Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agent normally used are sufficient.

**Hazards during Fire-Fighting:** Carbon monoxide, carbon dioxide, harmful vapors, evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. Product is not combustible or explosive.

**Protective Equipment for Fire-Fighting** Wear self-contained breathing apparatus and chemical-protective clothing.

## MATERIAL SAFETY DATA SHEET

### VI. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Use cautious judgment when cleaning up spill. Shut off leaks, if possible without personal risk. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
<b>Environmental Precautions:</b>	Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.
<b>Clean-up Methods:</b>	<b>Small spills:</b> Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal. <b>Large spills:</b> Approach suspected leak areas with caution. Create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.
<b>Additional Information:</b>	Notify authorities if any exposures to the general public or environment occur or are likely to occur. Dispose in accordance with federal, state, and local regulations
<b>Personal Precautions:</b>	Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.
<b>Environmental Precautions:</b>	Do not discharge into drains/surface waters/groundwater.
<b>Cleanup:</b>	Avoid raising dust. For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal. For residues: Rinse with plenty of water.

### VII. STORAGE AND HANDLING

<b>Handling General Advice:</b>	Avoid dust formation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.
<b>Protection Against Fire and Explosion:</b>	No special precautions necessary.
<b>Storage General Advice:</b>	Containers should be stored tightly sealed in a dry place. Storage Incompatibility: General advice: Segregate from metals. Segregate from acids. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

### VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with Workplace Control Parameters

<b>Crystalline Silica:</b>	OSHA TWA value 2.4 millions of particles per cubic foot of air Respirable: The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. TWA value 0.1 mg/m <sup>3</sup> Respirable: The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.
	TWA value 0.3 mg/m <sup>3</sup> Total Dust: The value is calculated from specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.
	ACGIH TWA value 0.025 mg/m <sup>3</sup> Respirable fraction
<b>Cement, Portland:</b>	OHSA PEL 5mg/m <sup>3</sup> Respirable fraction: PEL 15mg/m <sup>3</sup> Total Dust: ACGIH TWA Value 1 mg/m <sup>3</sup> Respirable fraction : The value is for particulate matter containing no asbestos and <1% crystalline silica.

#### Personal Protective Equipment

<b>Respiratory Protection:</b>	Breathing protection if dusts are formed.
<b>Hand Protection:</b>	Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.
<b>Eye Protections:</b>	Tightly fitting safety goggles (chemical goggles).
<b>Body Protections:</b>	Body protection must be chosen based on level of activity and exposure.

## MATERIAL SAFETY DATA SHEET

**General Safety and Hygiene Measures:** Avoid contact with skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift, the skin should be cleaned and skin care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks)

---

### IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Powder	<b>Freezing Point:</b>	N/E
<b>Color:</b>	Gray	<b>Flash Point:</b>	N.A.)
<b>Odor:</b>	Characteristic	<b>Specific Gravity:</b>	1.3 @ 75°F
<b>Vapor Pressure:</b>	N. A.	<b>Solubility In Water:</b>	Insoluble
<b>Melting Temperature:</b>	>1000°C		

---

### X. REACTIVITY DATA

<b>Stability:</b>	Stable under normal storage conditions.
<b>Condition to Avoid:</b>	Avoid dust formation. Avoid humidity
<b>Substance to Avoid:</b>	Strong acids Strong bases, strong acids
<b>Hazardous Reactions:</b>	The product is stable if stored and handled as prescribed/indicated. Strong bases are formed on the addition of water.
<b>Decomposition Products:</b>	No hazardous decomposition products if stored and handled as prescribed/indicated.

---

### XI. TOXICOLOGICAL PROPERTIES

<b>Acute Oral (LD<sub>50</sub>, Rat):</b>	Non toxic
<b>Acute Dermal (LD<sub>50</sub>, Rabbit):</b>	N/E
<b>Acute Inhalation (LC<sub>50</sub>, Rat):</b>	N/E
<b>Chronic Health Hazard:</b>	
<b>Irritation / Corrosion:</b>	Information on: Cement, Portland. Assessment of Irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.
<b>Repeated Dose Toxicity:</b>	Information on: Crystalline Silica. Repeated inhalation exposure may affect certain organs. The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. This product may contain greater than 0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.
<b>Carcinogenicity:</b>	Information on: Crystalline Silica: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given by inhalation in high doses, a carcinogenic effect was observed. The substance and its compounds in the form of respirable dusts/aerosols classified by the German MAK commission as a category 1 carcinogen (substances that cause cancer to humans). A carcinogenic effect cannot safely be ruled out. The inhalation uptake of the alveolar fraction of the fine dust may cause damage to the lungs. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen NTP listed carcinogen
<b>Experiences in Humans:</b>	Information on: Crystalline Silica May cause silicosis.
<b>Other Information:</b>	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

---

## MATERIAL SAFETY DATA SHEET

### XII. DISPOSAL CONSIDERATIONS

**Waste Disposal of Substance:**

This material is not a hazardous waste by RCRA criteria (40 CFR 261). Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

**Container Disposal:**

Completely emptied packaging can be given for recycling.

### XIII. TRANSPORTATION

**DOT:**

Not Regulated For Transport

**ICAO/IATA:**

**Not classified as a dangerous good under transport regulations**

**IMO:**

**Not classified as a dangerous good under transport regulations**

#### REGULATORY INFORMATION

Country	Regulatory List
USA	TSCA

**EPA SARA Title III Section 312 (40 CFR 370) Hazardous Classification:** Acute/Chronic

**EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:** None.

**US. California "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65):** This product contains a chemicals that are known to the State of California to cause cancer

Component	Regulation	Concentration	Remarks
Silicon Dioxide	ACGIH	Trace	Carcinogenic

### XV. OTHER INFORMATION

#### HMIS RATING

Health	Flammability	Physical Hazard
2	0	1

N/E – Not Established

This Material Safety Data Sheet (MSDS) is prepared by Epoxy Systems, Inc. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this MSDS. This MSDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.