

**Product Name: Glen-Gery Color Mortar Blend**
**SECTION 1 - IDENTIFICATION**

**Supplier:** Glen-Gery Corporation  
**Name:** Lehigh Cement Company  
**Address:** 66 Demsarest Road  
 Lafayette, NJ 07848  
**Telephone:** 610-562-3000

Chemical Name and Synonyms:

Masonry Cement, Custom Color Masonry Cement, P/L Blended Cement, Custom Color P/L Blended Cement  
 Note: This MSDS covers several products. Specific product composition of hazardous constituents will vary.

Emergency Contact Information

Health and Transport: (610) 926-1024

**SECTION 2 - COMPONENTS**

Component Name	%	CAS No.	Component Name	EXPOSURE LIMITS	
				OSHA PEL TWA	ACGIH TLV TWA
Calcium Carbonate	25 - 50	1317-65-3	Calcium Carbonate		
Tri-Calcium Silicate	10 - 40	12168-85-3	(Respirable Dust)	5 mg/m <sup>3</sup>	
Di-Calcium Silicate	5 - 50	10034-77-2	(Total Dust)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Iron Oxide	0-15	1309-37-1	Portland Cement (CAS 65997-15-1)		
Tetra-Calcium-			(Respirable Dust)	5 mg/m <sup>3</sup>	
Alumino-Ferrite	2 - 10	12068-35-8	(Total Dust)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Tri-Calcium Aluminate	1 - 15	12042-78-3	Crystalline Silica		
Calcium Hydroxide	0 - 30	1305-62-0	(Respirable Dust)	10/(SiO <sub>2</sub> +2)	0.025 mg/m <sup>3</sup>
Calcium Sulfate	0 - 5	Various	Iron Oxide	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Crystalline Silica	0 - 4	14808-60-7	Calcium Sulfate		
Magnesium Oxide	0 - 2	1309-48-4	(Respirable Dust)	5 mg/m <sup>3</sup>	
Calcium Oxide	0 - 1	1305-78-8	(Total Dust)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Chromates	0 - 0.005	Various	Calcium Hydroxide		
			(Respirable Dust)	5 mg/m <sup>3</sup>	
			(Total Dust)	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
			Magnesium Oxide	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
			Calcium Oxide	5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
			Chromates	0.1 mg(CrO <sub>3</sub> )/m <sup>3</sup>	0.05 mg(Cr) m <sup>3</sup>
			Nuisance Dust		
			(Respirable Dust)	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
			(Total Dust)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

**SECTION 3 - HAZARDS IDENTIFICATION**
Emergency Overview

This product poses little immediate hazard. A single short term exposure to the dry powder is not likely to cause serious harm. However, exposure of sufficient duration to cement can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns. The same type of tissue destruction can occur if wet or moist areas of the body are exposed for sufficient duration to dry cement.

Potential Health Effects
**Relevant Routes of Exposure:**

Eye contact, skin contact, inhalation, and ingestion.

**Eye Contact:**

Exposure to airborne dust may cause immediate or delayed irritation or inflammation.

Eye contact by dry powder or splashes of wet product may cause effects ranging from moderate eye irritation to chemical burns and blindness. In case of such exposures, seek immediate first aid (see Section 4) and/or medical attention.

**Skin Contact:**

Exposure to dry product may cause drying of the skin with consequent mild irritation. Dry cement contacting wet skin or exposure to moist or wet cement 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. Minimize skin contact, particularly contact with wet cement. Exposed persons may not feel discomfort until hours after the exposure has ended and significant injury has occurred.

Some individuals may exhibit an allergic response upon exposure to this product, possibly due to trace amounts of chromium. The response may range from a mild rash to severe skin ulcers.

**Inhalation:**

This product may contain trace amounts of free crystalline silica. Prolonged exposure to respirable free crystalline silica can aggravate other lung conditions and cause silicosis, a disabling and potentially fatal lung disease. (Also see "Carcinogenic Potential".)

Exposure to this product may cause irritation to the moist mucous membranes of the nose, throat, and other respiratory system. It may also leave unpleasant deposits in the nose.

**Ingestion:**

Although small quantities of dust are not known to be harmful, ill effects are possible if larger quantities are consumed. This product should not be eaten.

**Carcinogenic Potential:**

This product is not listed as a carcinogen by NTP, OSHA, or IARC. It may, however, contain trace amounts of substances listed as carcinogens by these organizations.

Crystalline silica, a potential trace level contaminant in this product, is now classified by IARC as a known human carcinogen (Group 1). NTP has characterized respirable silica as "reasonably anticipated to be [a] carcinogen".

**Medical Conditions Which May Be Aggravated By Inhalation or Dermal Exposure:**

Pre-existing upper respiratory and lung diseases. Unusual (hyper) sensitivity to hexavalent chromium (chromium<sup>+6</sup>) salts.

**SECTION 4 - 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 a physician immediately.

Skin

Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment in all cases of prolonged exposure to wet cement, cement mixtures, liquids from fresh cement products, or prolonged wet skin exposure to dry cement.

Inhalation of Airborne Dust

Remove to fresh air. Seek medical help if coughing and other symptoms do not subside. ("inhalation" of gross amounts of this product require immediate medical attention).

Ingestion

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

**SECTION 5 - FIRE & EXPLOSION DATA**

Flash point and method	None
Lower Explosive Limit	None
Upper Explosive Limit	None
Hazardous Combustion Products	None
Unusual Fire & Explosion Hazards	None
Auto Ignition Temperature	Not Combustible
Extinguishing Media	Not Combustible
Special Fire Fighting Procedures	None (Although this product poses no fire-related hazards, a self-contained breathing apparatus is recommended to limit exposure to combustion products when fighting any fire).

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

For spills, use appropriate tools (ie.broom and shovel), clean up spill avoiding actions that create dusting. Place material into suitable clean, dry containers for reclamation or disposal.

## SECTION 7 - HANDLING & STORAGE

Keep this product dry until used. Normal temperatures and pressures do not affect the material.

Promptly remove dusty clothing or clothing which is wet with cement fluids and launder before reuse. Wash thoroughly after exposure to dust or wet cement mixtures or fluids.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Skin Protection

Prevention is essential to avoiding potentially severe skin injury. Avoid contact with unhardened product. If contact occurs, promptly wash affected area with soap and water. Where prolonged exposure to unhardened cement products might occur, wear impervious clothing and gloves to eliminate skin contact. Where required, wear sturdy boots that are impervious to water to eliminate foot and ankle exposure.

Do not rely on barrier creams; barrier creams should not be used in place of gloves.

Periodically wash areas contacted by dry cement or by wet cement or concrete fluids with a pH-neutral soap. Wash again at the end of the work. If irritation occurs, immediately wash the affected area and seek treatment. If clothing becomes saturated with wet concrete, it should be removed and replaced with clean, dry clothing.

### Respiratory Protection

Avoid actions that cause dust to become airborne. Use local or general ventilation to control exposures below applicable exposure limits. Use NIOSH approved respirators in poorly ventilated areas, if an applicable exposure limit is exceeded, or when dust causes discomfort or irritation.

### Ventilation

Use local exhaust or general dilution ventilation to control exposure within applicable limits.

### Eye Protection

Where potentially subject to splashes or puffs of cement, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with this product or fresh cement products.

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Odor	No Distinct Odor	Vapor Density	Not applicable
Physical State	Solid (powder)	Boiling Point	>1000 °C
pH (in water)	12 to 13	Melting Point	Not applicable
Solubility In Water	Slightly Soluble	Specific Gravity (H <sub>2</sub> O = 1.0)	2.8 - 3.1
Vapor Pressure	Not applicable	Evaporation Rate	Not applicable

## SECTION 10 - STABILITY & REACTIVITY

<u>Stability</u>	Stable
<u>Conditions To Avoid</u>	Unintentional contact with water
<u>Hazardous Polymerization</u>	Will not occur
<u>Hazardous Decomposition</u>	Will not spontaneously occur. Adding water produces (caustic) calcium hydroxide.
<u>Incompatibility</u>	Product mixed with water is alkaline. As such it is incompatible with acids, ammonium salts and phosphorous

## SECTION 11 - ECOLOGICAL INFORMATION

<u>Ecotoxicity</u>	No recognized unusual toxicity to plants or animals.
<u>Relevant Physical &amp; Chemical Properties</u>	(See Section 9 and 10)

## SECTION 12 - DISPOSAL

Dispose of waste material according to local, state and federal regulations. Dispose of bags in an approved landfill or incinerator.

**SECTION 13 - TRANSPORTATION DATA**

<u>DOT or TDG shipping</u>	Not a hazardous material	<u>Identification Number</u>	NA
<u>Hazard Class</u>	NA	<u>Required Label Text</u>	NA

**SECTION 14 - OTHER REGULATORY INFORMATION**OSHA Hazard Communication Rule, 29 CFR 1910.1200

This product is considered a "hazardous chemical" under this regulation, and should be part of any hazard communication program.

CERCLA/Superfund, 40 CFR 117 and 302

Not listed.

SARA (Title III), Section 311 and 312

This product qualifies as a "hazardous substance" with delayed health effects.

SARA (Title III), Section 313

Not subject to reporting requirements under Section 313.

Toxic Substance Control Act

Some substances in this product are on the TSCA inventory list.

The Federal Hazardous Substances Act

This product is a "hazardous substance" subject to statutes promulgated under the subject act.

**SECTION 15 - OTHER INFORMATION**

## Abbreviations:

CAS No.	Chemical Abstract Service Number
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hour)
CL	Ceiling Limit
mg/m <sup>3</sup>	Milligrams per cubic meter
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
pH	Negative log of hydrogen ion
>	Greater than
DOT	U.S. Department of Transportation
TDG	Transportation of Dangerous Goods
CFR	Code of Federal Regulations
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
SARA	Superfund Amendments and Reauthorization Act

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