



LEHIGH PORTLAND CEMENT COMPANY

MATERIAL SAFETY DATA SHEET

FOR

MASONRY CEMENT

MSDS NUMBER:

EFFECTIVE DATE: OCTOBER 1997

1. PRODUCT/COMPANY IDENTIFICATION

Manufacturer's Name & Address:

Lehigh Portland Cement Company
7660 Imperial Way
Allentown, PA 18195

Chemical Family:

Calcium Compounds

Chemical Name and Synonyms:

Masonry Cement (CAS # 65997-15-1), Hydraulic Cement

Telephone Number for Information:
800-523-5488

Trade Name and Synonyms:

Lehigh Gray Masonry Cements Types N, S, M

Lehigh White Masonry Cements, Types N, S, M

Lehigh Custom Color Masonry Cements, Types N, S, M

2. EMERGENCY AND FIRST AID

EMERGENCY INFORMATION:

Masonry cement is a light gray or white powder. When in contact with moisture in eyes or on skin, or when mixed with water, masonry cement becomes highly caustic (pH > 12) and will damage or burn (as severely as third-degree) the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 10.

EYES:

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

	15 mg total dust/m ³		
Calcium sulfate (CAS #7778-18-9) [Gypsum (CAS #13397-24-5)] 0 to 10% by weight	5 mg respirable dust/m ³	10 mg total dust/m ³	
	15 mg total dust/m ³		
Iron oxide (CAS #1309-37-1) 0 to 15% by weight	10 mg/m ³	5 mg/m ³	
Calcium carbonate (CAS #1317-65-3) 0 to 70% by weight	5 mg respirable dust/m ³	10 mg total dust/m ³	
	15 mg total dust/m ³		
Magnesium oxide (CAS #1309-48-4) 0 to 5% by weight	15 mg total dust/m ³	10 mg total dust/m ³	
Calcium oxide (CAS #1306-78-8) 0 to 5% by weight	5 mg/m ³	2 mg/m ³	
Crystalline silica (CAS #14808-60-7) less than 0.75% by weight	<u>10 mg of respirable dust/m³</u>	0.10 mg respirable quartz/m ³	0.05 mg respirable quartz dust/m ³
	% SiO ₂ + 2		
	<u>30 mg of total dust/m³</u>		
	% SiO ₂ + 2		
	<u>250 million particles/ft³</u>		
	% SiO ₂ + 5		

TRACE INGREDIENTS:

Due to the use of substances mined from the earth's crust, trace amounts of naturally occurring, potentially harmful constituents may be detected during chemical analysis. Masonry cement may contain up to 0.75% insoluble residue. A medium amount of this residue includes free crystalline silica. Masonry cement also may contain trace (<0.05%) amounts of chromium salts or compounds (including hexavalent chromium) or other metals (including nickel compounds) found to be hazardous or toxic in some chemical forms. These metals are present mostly as trace substitutions within the principal minerals. Other trace constituents may include potassium and sodium sulfate compounds.

6. PHYSICAL/CHEMICAL DATA

APPEARANCE/ODOR:	Gray, white or colored powder, odorless	PHYSICAL STATE:	Solid (Powder)
BOILING POINT:	> 1000°C	MELTING POINT:	Not applicable
VAPOR PRESSURE:	Not applicable	VAPOR DENSITY:	Not applicable
pH (IN WATER) (ASTM D 1293-95)	12 to 13	SOLUBILITY IN WATER:	Slightly soluble (0.1% to 1.0%)
SPECIFIC GRAVITY (H ₂ O = 1.0):	2.9	EVAPORATION RATE:	Not applicable

7. FIRE AND EXPLOSION

FLASH POINT:	None	LOWER EXPLOSIVE LIMIT:	None
AUTO IGNITION TEMPERATURE:	Not combustible	UPPER EXPLOSIVE LIMIT:	None
FLAMMABLE LIMITS	Not applicable	SPECIAL FIRE FIGHTING PROCEDURES:	None
EXTINGUISHING MEDIA:	Not combustible	UNUSUAL FIRE AND EXPLOSION HAZARDS:	None
HAZARDOUS COMBUSTION PRODUCTS:	None		

8. STABILITY AND REACTIVITY DATA

STABILITY:	Product is stable. Keep dry until used.
CONDITIONS TO AVOID:	Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.
INCOMPATIBILITY:	Wet masonry cement is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.
HAZARDOUS DECOMPOSITION:	Will not occur.
HAZARDOUS POLYMERIZATION:	Will not occur.

9. PRECAUTIONS FOR HANDLING, STORAGE AND DISPOSAL

13. OTHER REGULATORY INFORMATION

Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:	Masonry cement is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.
Status under CERCLA/Superfund, 40 CFR 117 and 302:	Not listed.
Hazard Category under SARA (Title III), Sections 311 and 312:	Masonry cement qualifies as a hazardous substance with delayed health effects.
Status under SARA (Title III), Section 313:	Not subject to reporting requirements under Section 313.
Status under TSCA (as of May 1997):	Some substances in masonry cement are on the TSCA inventory list.
Status under the Federal Hazardous Substances Act:	Masonry cement is a hazardous substance subject to statutes promulgated under the subject act.
Status under California Proposition 65:	This product contains crystalline silica, a substance known to the State of California to cause cancer. This product also may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects or other reproductive harm.
Status under Canadian Environmental Protection Act:	Not listed.
Status under Canadian WHMIS:	Masonry cement is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A, E - Corrosive Material) and subject to the requirements of WHMIS.

14. OTHER INFORMATION

This MSDS provides information on various types of masonry cement products. A particular product's composition may vary from sample to sample. The information provided herein is believed by Lehigh Portland Cement Company to be accurate at the time of preparation or prepared from sources believed to be reliable. Health and safety precautions in this data sheet may not be adequate for all individuals or situations. Users have the responsibility to comply with all laws and procedures applicable to the safe handling and use of the product, to determine the suitability of the product for its intended use, and to understand possible hazards associated with mixing masonry cement with other materials. 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 LEHIGH PORTLAND CEMENT COMPANY.

ABBREVIATIONS