



WesternLime

MSDS – Material Safety Data sheet
Western Lime
Colored Mortar Mixes

- 1 -

I. Product and Company Information **Reviewed on 08/07/09**

Manufacturer: Western Lime Corporation Information: 800-433-0036
206 N. 6th Avenue
West Bend, WI 53095

Western Lime Corporation	Trade Names/Synonyms Western Lime Colored Mortar Mix	Material Use Masonry construction
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Mortar mixes are made of portland cement, hydrated lime and pigments. All pigments are non-toxic inorganic mineral oxides and contain no carbonaceous material. Individual composition of hazardous constituents will vary between types of mortar.

II. Composition and Information on Ingredients

Component	CAS#	Exposure Limits	% by weight
Portland Cement	65997-15-1	OSHA PEL: 15 mg/m3 (T) 5 mg/m3 (R) ACGIH TLV: 10 mg/m3 (R)	50%
Calcium Hydroxide	1305-62-0	OSHA PEL: 5mg/m3 ACGIH TLV: 5 mg/m3	>29%
Magnesium Hydroxide	1309-42-8	OSHA PEL: n/a ACGIH TLV: n/a	>19%
Calcium Sulphate Dihydrate	13397-24-5	OSHA PEL: 15 mg/m3 (T) 5 mg/m3 (R) ACGIH TLV: 10 mg/m3	>5%
Calcium Sulfate	13397-24-5	OSHA PEL: 15 mg/m3 (T) 5 mg/m3 (R) ACGIH TLV: 10 mg/m3 (T)	1-5%
Calcium Carbonate	1317-65-3	OSHA PEL: 15 mg/m3 (T) 5 mg/m3 (R) ACGIH TLV: 10 mg/m3 (T)	0-2%
Calcium Oxide	1305-78-8	OSHA PEL: 5 mg/m3 (T) ACGIH TLV: 2 mg/m3 (T)	0-2%
Dolomite	16389-88-1	OSHA PEL: 15 mg/m3 ACGIH TLV: 10 mg/m3	<0.5%
Magnesium Oxide	1309-48-4	OSHA PEL: 10 mg/m3 ACGIH TLV: 10 mg/m3	<0.5%
Iron Oxide	1345-25-1	OSHA PEL: Not established ACGIH TLV: Not established	N/A
Crystalline Silica	14808-60-7	OSHA PEL: <u>10 mg/m3</u> (% SiO2 resp +2) ACGIH TLV: 0.025 mg/m3	N/A

(R)-Respirable Dust
(T)-Total Dust

**III. Hazards Identification**

Emergency Overview: Colored Mortar appearance depends on the color specified on the bag and the product has a faint earth odor. Contact can cause irritation to eyes, skin, respiratory system, and gastrointestinal tract.	
Eyes:	Contact can cause severe irritation or burning of eyes, including permanent damage.
Skin:	Contact can cause severe irritation or burning of skin, especially in the presence of moisture.
Ingestion:	This product can cause severe irritation or burning of gastro-intestinal tract if swallowed
Inhalation:	This product can cause severe irritation of the respiratory system. Long-term exposure may cause permanent damage. Mortar Mixes is not listed by IARC or NTP as a carcinogen, but this product may contain crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled in the form of quartz or cristobalite. Inhalation of silica can cause a chronic lung disorder, silicosis.
Medical Conditions Aggravated by Exposure: Contact may aggravate disorders of eyes, skin, gastrointestinal tract, and respiratory system.	
Potential Environmental Effects: This material is alkaline and if released into water or soil will cause an increase in its pH.	

IV. First Aid Measures

Eyes:	Immediately flush eyes with large amounts of water for at least 15 minutes. Pull back the eyelid to make sure all the dust has been washed out.
Skin:	Flush exposed area with large amounts of water. Seek medical attention immediately.
Inhalation:	Remove to fresh air. Seek medical attention if necessary. If breathing has stopped, give artificial respiration.
Ingestion:	Give large quantities of water or fruit juice. Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing.
Note to Physicians: Provide general supportive measures and treat symptomatically.	

V. Fire Fighting Measures

Fire Hazards:	Western Lime Mortar mixes are not combustible or flammable. Mortar mix is not an explosion hazard.
Hazardous Combustion Products:	None Identified.
Extinguishing Media:	Use dry chemical fire extinguisher or water
Fire Fighting Instructions:	Keep personnel removed from and upwind of fire. Wear full fire-fighting turn-out gear(full Bunker gear), and respiratory protection (SCBA)

VI. Accidental Release Measures

Spill/Leak Procedures:	Use proper protective equipment. Mortar mixes are a fine powder which can easily be entrained into the air.
Small Spills:	Wash area with water. Neutralize with dilute vinegar solution.
Large Spills:	Use dry methods to collect spilled materials. Evacuate area down wind of clean-up operations to avoid dust exposure. Store spilled materials in dry, sealed plastic or metal containers.
Containment:	For large spills, as much as possible avoid the generation of dusts. Do not release into sewers or waterways.
Cleanup:	Residual amounts can be flushed with large amounts of water. Equipment can be decontaminated by washing with either a mild



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Western Lime
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	vinegar and water solution, or detergent and water solution.
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VII. Handling and Storage

Handling:	Keep in tightly closed containers. Protect from physical damage. Avoid direct contact with material.
Storage:	Store in a cool, dry and well ventilated location. Do not store near incompatible materials. Keep away from moisture. Do not store or ship in aluminum containers.

VIII. Exposure controls/Personal Protection Equipment

Personal Protective Equipment (PPE)	Wear clean, dry gloves, full length pants over boots, long sleeved shirt buttoned at the neck, head protection and approved eye protection selected for the working conditions.
Gloves	Gauntlets cuff style
Respiratory	NIOSH approved filtering anti-dust mask
Eyes	Tight fitting goggles/glasses with side shield
Footwear	Resistant to caustics
Clothing	Fully covering skin

IX. Physical and chemical properties

Physical State: Solid	Appearance: Dependent on color type	Odor: Faint earth odor	Specific Gravity: 2.6—3.2g/cc
Boiling Point: N/A	Vapor Pressure: N/A	pH (25° C): 12-13	Density (kg/m3): 450 - 750
Melting Point: Non-volatile	Vapor Density: N/A	Solubility in Water: Insoluble	Freezing Point: 2580 C

X. Stability and Reactivity

Stability:	Chemically stable, but reacts slowly with carbon dioxide to form calcium carbonate.
Incompatibility/ Conditions to avoid:	Mortar mixes should not be mixed or stored with the following materials, due to the potential for violent reaction and release of heat. Acids, Reactive Fluorinated Compounds, Reactive Brominated Compounds, Reactive Powdered Metals, Organic Acid Anhydrides, Nitro-Organic Compounds, Reactive Phosphorous Compounds.
Hazardous Decomposition Products:	Dolomitic hydrated lime component will decompose at 540 C to produce calcium oxide, magnesium oxide, and water
Hazardous Polymerization:	None

XI. Toxicological Information

No LD50/LC50 have been identified for this product's components. Hydrated Lime is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled in the form of quartz or cristobalite.

XII. Ecological Information

Ecotoxicity:	Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Environmental Fate:	This material shows no bioaccumulation or food chain toxicity potential.



WesternLime

MSDS – Material Safety Data sheet
Western Lime
Colored Mortar Mixes

- 4 -

XIII. Disposal Considerations:	
Dispose of in accordance with all applicable federal, state, and local environmental regulations. If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation Act	

XIV. Transportation Information	
Mortar mixes are not classified as a hazardous material by DOT when transported.	

XV. Regulatory Information	
<u>EPA Regulations</u>	
RCRA Hazardous Waste Number (40 CFR 261.33)	Not Listed
RCRA Hazardous Waste Classification (40 CFR 261)	Not Listed
CERCLA Hazardous Substance (40 CFR 261)	Not Listed
CERLA Reportable Quantity (RQ)	Not Listed
SARA 311/312 codes	Portland Cement component listed
Sara Toxic Chemical (40 CFR 372.65)	Not Listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355)	Not Listed
Threshold Planning Quantity (TPQ)	Not Listed
All components are listed on the USEPA TSCA Inventory List	
<u>OSHA/MSHA Regulations</u>	
Air Contaminant (29 CFR 1910.1000, Table Z-1)	Not Listed
MSHA	Portland Cement component listed
OSHA Specifically Regulated Substance (29CFR 1910)	Portland Cement component listed
State Regulations: Consult state and local authorities for guidance	
<u>Canadian Environmental Protection Act (CEPA)</u>	
Domestic Substances List	Hydrated Lime component listed

XVI. Other Information		
HMIS	Health Risks	1
	Flammability	0
	Reactivity	0
	Personal Protection	E
NFPA	Health Hazard	1
	Fire Hazard	0
	Reactivity	0
WHIMS Classification	"E" Corrosive Materials	
WHIMS Classification	"D2A" Materials Causing Other toxic effects	

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MSDS – Material Safety Data sheet
Western Lime
Colored Mortar Mixes

- 5 -

WesternLime

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