

SAFETY DATA SHEET

MATERIAL: MASONRY MORTAR AND STUCCO CEMENTS

Section 1 – Product Identification

Product Identifier

Product Name: Masonry Mortar and Stucco Cements

Product Codes: Holcim Mortamix Masonry Cement, Holcim Mortar Cement, Holcim Cement-Lime, Holcim Mortamix Rainbow Custom Color Masonry Cement, Holcim Rainbow Custom Color Cement-Lime, Holcim Custom Stucco. (This SDS covers many products. Individual constituents will vary.)

Synonyms: Masonry Cement Type O, N, S and M. Cement-Lime Type O, N, S and M. Mortar Cement Type S, Stucco Cement.

Product Form: Solid / powder

Intended Use of Product: Masonry mortar and stucco cements are cementitious binders used for masonry, exterior and interior

stucco, and other building and construction applications.

Name, Address and Telephone of Responsible Party

Holcim (US) Inc. 24 Crosby Drive Bedford, MA 01730 (888) 646-5246

Emergency Contact Information:

CHEMTREC: 1-800-424-9300

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Section 2 - Hazards Identification

Classification of the Substance or Mixture

Classification (GHS-US)

Skin Corrosion 1B Eye Damage 1 Skin Sensitizer 1B

Specific Target Organ Toxicity Single Exposure 3

Label Elements
Hazard Pictograms



Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage

May cause an allergic skin reaction May cause respiratory irritation

Precautionary Statements

Prevention Do not breathe dust.

Wear protective gloves/protective clothing/eye protection/face protection

Wash thoroughly after handling.

Do not handle until all safety precautions have been read and understood.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a

poison center/doctor.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a doctor.

 $\textbf{If on skin:} \ \mathsf{Take off immediately all contaminated clothing.} \ \mathsf{Rinse skin with water.} \ \mathsf{Wash}$

contaminated clothing before reuse.

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/state/national regulations.

Other Hazards Exposure may aggravate those with pre-existing eye, skin or respiratory conditions or illness.

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Section 3 – Composition/Information on Ingredients				
Component/Ingredient	CAS#	Percent Present (Range)		
Portland cement	65997-15-1	0 - 100		
Limestone (calcium carbonate)	1317-65-3	0 - 60		
Hydrated lime (calcium magnesium hydroxide)	39445-23-3	0 - 55		
Magnesium oxide	1309-48-4	0 - 10		
Calcium oxide	1305-78-8	30 - 70		
Gypsum (calcium sulfate)	13397-24-5	2 - 7		
Red pigment (hematite)	1317-60-8	0 - 10		
Red pigment (iron oxide)	1309-37-1	0 - 10		
Yellow pigment	51274-00-1	0 - 10		
Black pigment	12227-89-3	0 - 10		
Ochre	1343-81-3	0 - 10		
Crystalline Silica (Quartz)	14808-60-7	0 - < 1		

Other Components

Masonry mortar and stucco cement is made from materials mined from the earth and processed using energy provided by fuels. Additional materials, such as fly ash, kiln dust and slag may also be introduced into the cement manufacturing process. A chemical analysis of this product may reveal trace amounts of naturally occurring but potentially harmful chemical compounds such as free crystalline silica, organic compounds, potassium and sodium compounds, heavy metals including cadmium, chromium (including hexavalent chromium), nickel and lead. Other trace constituents may include calcium oxide (also known as free lime or quick lime) and organic compounds from grinding aids such as amine acetate salts, glycols and 1,2-ethanediol.

Section 4 - First Aid Measures

Description of First Aid Measures

Eyes Rinse eyes and under lids cautiously with clean water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin Remove contaminated clothing. Remove dry material from skin, but avoid creating dust. Wash

with plenty of water. If skin irritation occurs, get immediate medical advice/attention.

Inhalation Remove person to fresh air away from dust and keep comfortable for breathing. If coughing

persists, obtain medical attention.

Ingestion Do not induce vomiting. If subject is conscious, rinse the mouth with water to remove any

material and drink plenty of water to dilute any swallowed material. Do not give drink or

attempt to force water to an unconscious person. Get medical advice/attention.

Important Symptoms and Effects (Acute and Delayed)

Eyes Causes serious eye irritation and may scratch eye surface due to particle abrasion. May cause

chemical burns resulting in corneal damage.

Skin Causes skin irritation if exposed to moisture on skin creating redness, dryness and itching.

Extended exposure to wet material will result in chemical burns to skin, possibly severe.

Inhalation May irritate nose and throat if dust is inhaled. Prolonged or repeated inhalation of respirable

dust may lead to respiratory tract or lung damage.

Ingestion May cause irritation and burns of mouth, throat, stomach and digestive tract if swallowed.

Recommendations for Immediate Medical Care or Special Treatment

Seek immediate medical attention for inhalation of large quantities of dust or exposure of wet material over large areas of skin. Seek immediate medical attention if material comes into contact with eyes and cannot be immediately removed.

Section 5 – Fire Fighting Measures

General Fire Hazards None. Material is not considered flammable or combustible.

Extinguishing Media Use water or water spray to extinguish any fires involving this material.

Extinguishing Media to Avoid None. **Hazards of Combustion** None.

Fire Fighting Recommendations Firefighters should always wear full protective gear to fight any fire.

Refer to Section 9 for flammability information.

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Section 6 – Accidental Release Measures

Avoid creating dust. Prevent material from entering sewers, drains, ditches or waterways. **Precautions Personal Protection** Wear respiratory protection and protective eyewear/clothing to avoid eye or skin contact. **Emergency Procedures** Ventilate area and avoid creating dust. Remove unnecessary persons from area. **Containment Procedures**

Barricade solid material to prevent additional spillage.

Scoop or vacuum up spilled material while avoiding dust creation. Scoop up wet material and Clean Up Procedures

place in approved container. Allow wet material to harden before disposal.

Section 7 – Handling and Storage

Safe Handling Practices Avoid contact with skin or eyes. Avoid breathing dust. Use only in well ventilated areas. Wear

appropriate personal protective equipment to prevent eye or skin contact and use respiratory

protection equipment if dusty or in poorly ventilated areas.

Safe Storage Measures Store in well-ventilated areas away from moisture and incompatible materials. If stored in

containers, keep containers closed when not in use.

Incompatible Materials Water/moisture exposure will cause material to generate heat. Keep away from fluoride

compounds, strong acids and oxidizers. Cement dissolves in hydrofluoric acid, producing

corrosive silicon tetrafluoride gas.

Section 8 – Exposure Controls & Personal Protection

Exposure Limits for Individual Components (T= Total Respirable [PNOC/PNOR], R=Respirable fraction, I=Inhalable-aerosol)					
Component	OSHA PEL	ACGIH TLV	NIOSH REL		
Portland cement	15 mg/m3 (T); 5 mg/m3 (R)	1 mg/m3 (R)	10 mg/m3 (T); 5 mg/m3 (R)		
Hydrated lime	15 mg/m3 (T); 5 mg/m3 (R)	5 mg/m3	5 mg/m3		
Magnesium oxide	15 mg/m3	10 mg/m3 (I)	Not established		
Calcium oxide	5 mg/m3	2 mg/m3	2 mg/m3		
Gypsum (Calcium Sulfate)	15 mg/m3 (T); 5 mg/m3 (R)	10 mg/m3 (T)	10 mg/m3 (T); 5 mg/m3 (R)		
Limestone (Calcium Carbonate)	15 mg/m3 (T); 5 mg/m3 (R)	10 mg/m3	10 mg/m3 (T); 5 mg/m3 (R)		
Red pigment (hematite)	10 mg/m3	5 mg/m3	5 mg/m3		
Red pigment (iron oxide)	10 mg/m3	5 mg/m3	5 mg/m3		
Yellow pigment	10 mg/m3	5 mg/m3	5 mg/m3		
Black pigment	10 mg/m3	5 mg/m3	5 mg/m3		
Ochre	10 mg/m3	5 mg/m3	Not established		
Crystalline Silica (Quartz)	10 mg/m3 (R) /(% SiO2 + 2)	0.025 mg/m3 (R)	0.05 mg/m3 (R)		
	30 mg/m3 (T) /(% SiO2 + 2)				

Exposure Controls

Engineering Controls Use outdoors in well-ventilated areas; otherwise employ natural or mechanical ventilation to

maintain exposure within applicable limits.

Personal Protection Avoid contact with skin or eyes. Avoid creating or breathing dust.

> Safety glasses with side shields or protective goggles should be worn while using this product. Face and Eyes

> > For extremely dusty conditions, non-vented goggles or goggles with indirect venting are

recommended. Avoid contact lens wear when using this product.

Long sleeved shirts and trousers should be worn while using this material. Wear water-proof Body

boots. If working in dusty conditions, impervious over garments are recommended.

Respiratory If exposure levels cannot be maintained below acceptable limits, suitable particulate-filtering

facemasks or respirators approved by MSHA/NIOSH should be worn in accordance with the

user's respiratory protection program and OSHA/MSHA guidelines.

Hands Protective gloves with wrist/arm cuffs should be worn to avoid direct contact with skin.

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Section 9 – Physical and Chemical Properties					
Physical State	Solid, powder	Specific Gravity	2.8 – 3.0		
Appearance & Color	Grey, buff or colored powder	Flash Point/Method	None. Not flammable.		
Odor	None	Auto Ignition Temperature	Not determined		
pH	>12 (in water)	Lower Flammability Limit	Not applicable		
Boiling Point	Not applicable	Upper Flammability Limit	Not applicable		
Solubility (Water)	Negligible (<1%)	Octanol/H2O Coefficient	Not determined		
Evaporation Rate	Not applicable	Viscosity	Not applicable		
Melting Point	Not determined	Freezing Point	Solid at room temperature		
Vapor Density	Not applicable	Explosion Risk: Static	Not considered a hazard		
Vapor Pressure	Not applicable	Explosion Risk: Shock	Not considered a hazard		

Section 10 – Stability and Reactivity

Reactivity Reacts with water to create heat and calcium hydroxide.

Chemical StabilityStable at standard temperature and pressures. **Hazardous Reactions**None. Hazardous polymerization will not occur.

Conditions to AvoidMoisture or wetting will cause exothermic heating as product cures. **Incompatible Materials**Avoid contact with strong acids, oxidizers and ammonium salts.

Decomposition HazardsReacts with water to form calcium hydroxide which can irritate/damage skin. Cement dissolves

in hydrofluoric acid, producing corrosive silicon tetrafluoride gas.

Section 11 - Toxicological Information

Product: Blended hydraulic cement

Acute Toxicity Not classified. LD50/LC50 Data Not classified.

Skin Corrosion/IrritationCauses irritation or chemical burns if exposed to moisture on skin.Critical Eye Damage/IrritationCauses serious eye injury due to chemical burns or mechanical irritation.

Respiratory or Skin Sensitization

Germ Cell Mutagenicity

Not reported/no data available.

Not reported/no data available.

Not reported/no data available.

CarcinogenicityMaterial contains trace amounts of crystalline silica, which may cause lung cancer

through repeated or prolonged exposure to dust.

Specific Organ Toxicity (Single Exposure) May cause respiratory irritation.

Specific Organ Toxicity (Repeated Exposure) May cause damage/disease to lungs through repeated or prolonged exposure.

Reproductive ToxicityAspiration Respiratory Hazard
Not reported/no data available.
Not reported/no data available.

Symptoms: Inhalation Coughing, sneezing, mucous discharge and dyspnea. Extended contact may lead to

chemical burns.

Symptoms: Skin Contact Redness and itching. Extended contact may lead to chemical burns.

Symptoms: Eye Contact Redness and itching. Extended contact may lead to corneal abrasion/ulceration.

Symptoms: Ingestion Irritation and chemical burns of mouth and throat.

Other Toxicological Information No additional data available.

Components	Toxicity	Carc: IARC	Carc: NTP	Carc: OSHA
Portland cement (also see Section 16)	No data	Not listed	Not listed	Not listed
Hydrated lime	Oral LD50 Rat 7340 mg/kg	Not listed	Not listed	Not listed
Magnesium oxide	Oral LD50 Rat 810 mg/kg	Not listed	Not listed	Not listed
Calcium oxide	Oral LD50 Rat 500 mg/kg	Not listed	Not listed	Not listed
Gypsum (Calcium Sulfate)	Oral LD50 Rat >2000 mg/kg	Not listed	Not listed	Not listed
Limestone (Calcium carbonate)	Oral LD50 Rat 6450 mg/kg	Not listed	Not listed	Not listed
Red pigment (hematite)	Oral LD50 Rat >10000 mg/kg	Group 3	Not listed	Not listed
Red pigment (iron oxide)	Oral LD50 Rat >10000 mg/kg	Group 3	Not listed	Not listed
Yellow pigment	Oral LD50 Rat >10000 mg/kg	Not listed	Not listed	Not listed
Black pigment	Oral LD50 Rat >10000 mg/kg	Not listed	Not listed	Not listed
Ochre	Oral LD50 Rat >10000 mg/kg	Not listed	Not listed	Not listed
Crystalline Silica (Quartz) (also see Section 16)	Oral LD50 Rat >22,500 mg/kg	Group 1	Known	Not listed
	LC50 Carp >10,000 mg/L (72 hr)			

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Section 12 - Ecological Information

General Ecotoxicity Not classified.

Persistence and Degradability

Bioaccumulation Potential

Mobility in Soil to Groundwater

Environmental Fate

Not reported/no data available.

Not reported/no data available.

Not reported/no data available.

Other Environmental Avoid release to the environment. Prevent material from entering sewers, drains, ditches or

Precautions or Information waterways.

Section 13 – Disposal Considerations

Disposal MethodsDispose as an inert, non-metallic mineral in accordance with applicable federal, state, and local

regulations.

Special Considerations Avoid creating or breathing dust during disposal. Avoid contact with skin and eyes.

Other Disposal Information Prevent material from entering sewers, drains, ditches or waterways.

Section 14 – Transport Information

Proper Shipping Name

Hazard Class

UN Shipping ID Number

Packing Group

Environmental/IMDG Codes

N/A – not regulated.
N/A – not regulated.
N/A – not regulated.
N/A – not regulated.

Section 15 - Regulatory Information

Federal

This product contains one or more chemical components or ingredients that may require identification and/or reporting under SARA Section 302, SARA Section 311/312/313, CERCLA and/or TSCA. An examination of the components of this product should be conducted by a qualified environmental professional to determine if such identification or reporting is required by federal law.

• Components: Portland cement, Silica (Crystalline), Iron oxide

State

This product contains one or more chemical components or ingredients that are included or listed on the hazardous substances lists for one or more of the following states: California, Maine, Minnesota, New Jersey, Pennsylvania and Rhode Island. An examination of the components of this product should be conducted by a qualified environmental or safety and health professional to determine the specific requirements for those states.

Components: Portland cement, Limestone (calcium carbonate), Gypsum (calcium sulfate), Silica (Crystalline), Iron oxide

The state of California requires the following statement (Proposition 65) in regards to this material:

• WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Section 16 – Other Information

Date of last revision: May 4, 2015 Prepared and reviewed by: Holcim (US) Inc. Occupational Safety & Health

Additional information regarding products containing portland cement:

Wet portland cement can cause caustic burns to unprotected skin, sometimes referred to as cement burns. Cement burns may result in blisters, dead or hardened skin, or black or green skin. In severe cases, these burns may extend to the bone and cause disfiguring scars or disability.

Employees cannot rely on pain or discomfort to alert them to cement burns because cement burns may not cause immediate pain or discomfort. By the time an employee becomes aware of a cement burn, much damage has already been done. Accordingly, the safest method to use portland cement is to avoid contact with exposed skin completely. Cement burns can get worse even after skin contact with cement has ended. Any employee experiencing a cement burn is advised to see a health care professional immediately.

Skin contact with wet portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Contact with wet portland cement can cause a non-allergic form of dermatitis (called irritant contact dermatitis) which is related to the caustic, abrasive, and drying properties of portland cement.

In addition, hexavalent chromium [Cr(VI)] which may be found in portland cement in trace amounts, can cause an allergic form of dermatitis (allergic contact dermatitis, or ACD) in sensitized employees who work with wet portland cement. When an employee is sensitized, that person's immune system overreacts to small amounts of Cr(VI), which can lead to severe inflammatory reactions upon subsequent exposures. Sensitization may result from a single Cr(VI) exposure, from repeated exposures over the course of months or years, or it may not occur at all. After an employee becomes sensitized, brief skin contact with very small amounts of Cr(VI) can trigger ACD. ACD is long-lasting and employees can remain sensitized to Cr(VI) years after their exposure to portland cement has ended. Medical tests (e.g. skin patch tests) are available that can confirm whether an employee has become dermally sensitized to Cr(VI).

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Employees who work with wet portland cement and experience skin problems, including seemingly minor ones, are advised to see a health care professional for evaluation and treatment. In cement-related dermatitis, early diagnosis and treatment can help prevent chronic skin problems.

Additional information regarding crystalline silica:

The major concern is silicosis, caused by the inhalation and retention of respirable (extremely small) crystalline silica dust particles. Silicosis can exist in several forms. Chronic or ordinary silicosis (often referred to as simple silicosis) is the most common form of silicosis, and can occur after many years of exposure to relatively low concentrations of airborne respirable crystalline silica dust. Complicated silicosis or progressive massive fibrosis (PMF) may be associated with decreased lung function and may be disabling. Advanced complicated silicosis or PMF may lead to death. Advanced complicated silicosis or PMF can result in heart disease secondary to the lung disease. Acute silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis can be fatal.

IARC: The overall IARC evaluation was that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)." The IARC evaluation noted that "carcinogenicity was not detected in all industrial circumstances studies. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs."

NTP: The National Toxicology Program (NTP), in its Thirteenth Annual Report on Carcinogens, classified "silica, crystalline (respirable)" as a known human carcinogen.

OSHA: Crystalline silica (quartz) is not regulated as a human carcinogen by the Occupational Safety and Health Administration.

Other important information:

While the information provided in this document is believed to provide a useful summary of the hazards of masonry mortar and stucco cement, the information in this document cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product.

The data furnished in this document do not address hazards that may be posed by other materials when mixed with masonry mortar and stucco cement. Users should review other relevant safety data sheets before working with this product.

The information presented in the Safety Data Sheet is based on current knowledge and publications and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be interpreted as guaranteeing any specific property of the product.

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