



Cleopatra Building Materials Industries Co.

Cleopatra White Portland cement

Cleopatra Masonry Cement

Revised: 01/10/2019

MSDS CERTIFICATE

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1. Product and Company Identification

(Packing & Supplier) and Company Identification Material Identity (Synonyms):

White *MASONRY CEMENT*—According to ASTM C-91 standard (Portland cement, Hydraulic Cement)

Supplier Name & Address:

Cleopatra Building materials CO,
8 Khaled Ben El Waleed St, Complex 1136 Sheraton Residence, Nozha, Cairo

Telephone Number for Information:

Tel.: 02 2269753 – 02 22697536



Cleopatra Building Materials Industries Co.

2. Emergency and First Aid

Emergency Information:

White Portland cement is an odorless light white powder.

Eyes: Flush immediately eye thoroughly with clean water continuously for at least 15 minutes. Consult a physician immediately if irritation persists.

Skin: Affected areas must be washed with neutral soap and clean, cool water for at least 15 minutes. For reddened skin, consult a physician immediately.

Inhalation: Remove exposed person to fresh air and support breathing as needed. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician immediately if irritation persists. Inhalation of large amounts of Portland cement requires immediate medical attention.

Ingestion: If the material is ingested, have the conscious person drink plenty of water or milk. Never give any thing by mouth to an unconscious or convulsing person. Consult a physician immediately.

3. Hazardous Ingredients/Identity Health and Safety Contact between cement powder and body fluids (eg sweat and eye fluids) may cause irritation, dermatitis or Burns.

Cement is classified as an irritant under the Chemicals (Hazard Information and Packaging) Regulations. For further information, including control of soluble hexavalent chromium,

Hazardous Components	OSHA PEL (8-Hour TWA)	ACGIH TLV-TWA	MSHA PEL
Portland Cement (CAS #65997-15-1) 100%	5 mg respirable dust/m ³ 15 mg total dust/m ³	10 mg total dust/m ³	10 mg total dust/m ³
Calcium Sulfate (CAS #7778-18-9) [Gypsum] 5 to 7%	5 mg respirable dust/m ³ 15 mg total dust/m ³	10 mg total dust/m ³	
Magnesium Oxide (CAS #1309-48-4) 0.5 to 2%	15 mg total dust/m ³	10 mg total dust/m ³	
Crystalline Silica (CAS #14808-60-7) 0 to 0.05%	10/(% SiO ₂ + 2) mg of respirable dust/m ³ 30/(% SiO ₂ + 2) mg of total dust/m ³	0.10 mg respirable quartz/m ³	10/(% SiO ₂ + 2) mg of respirable dust/m ³ 30/(% SiO ₂ + 2) mg of total dust/m ³

4. Physical and Chemical Characteristics

The composition of Masonry cement shall be as follows:

- Portland cement clinker 50 to 60 %
- Limestone 40 to 50 %
- Minor additional constituents 0 to 5 %

Advantages

- Lower water demand and improved workability
- Lower surface laitance

Availability

Application:

- industrial construction facilities
- small-size concrete products and elements
- Extra Rapid is available in 50kg polypropylene bags throughout Egypt.

Properties

- Masonry cement based.
- Strength Class Masonry Cement
- Not Used in Concrete.
- Used in Pasting and tile fixation.

property	Test reference	Strength class	Cement type	Requirement	Cleopatra Result
Fineness	C 430	C 91 M	MASONRY C-91	< 24.0 %	2.5 ± 1.0
Water retention	C 1506	C 91 M	MASONRY C-91	> 70.0	80.0 ± 10.0
Air content	C 185	C 91 M	MASONRY C-91	8.0 – 19.0	13.0 ± 3.0

Strength class	Compressive strength MPa				Initial setting time min		Soundness (expansion) autoclave	
	Early strength		Standard strength		Stand.	Cleopatra	Stand.	Cleopatra
	7 days	Cleopatra Result	28 days	Cleopatra Result				
MASONRY C-91	> 12.4 MPa	17.0 ± 2.0	> 20.0 MPa	26.0 ± 3.0	> 90.0	120 ± 20	< 1.0	0.4 ± 0.1

Use According to the instructions of the concrete or mortar designer. Recommended temperature of work with cement: 5 to 30 deg. C. Lower temperatures retard cement setting, while higher temperatures accelerate it. Portland cements are predominantly compounds of calcium silicate and calcium aluminate with a small proportion of gypsum. They are produced by burning or sintering, at a temperature in excess of 1400°C, a finely ground mixture of raw materials which contain predominantly calcium carbonate, aluminum oxide, silica and iron oxide. The cooled clinker formed is ground under controlled conditions with the addition of typically 5% gypsum. Portland Limestone cement based.



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APPEARANCE/ODOR:	white powder, odorless P	PHYSICAL STATE:	Solid (Powder)
BOILING POINT:	Not applicable	MELTING POINT:	Not applicable
VAPOR PRESSURE:	Not applicable	VAPOR DENSITY:	Not applicable
pH (IN WATER) (ASTM D 1293-95)	11.90	SOLUBILITY IN WATER:	Slightly soluble (0.3% To 1.5%)
SPECIFIC GRAVITY (H ₂ O = 1.0):	3.00	EVAPORATION RATE:	Not applicable

5. Health Hazard Identification

POTENTIAL HEALTH EFFECTS:

NOTE: Potential health effects may vary depending upon the duration and degree of exposure.

EYE CONTACT: (Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea. Eye contact by larger amounts of dry powder or splashes of wet Portland cement may cause effects ranging from moderate eye irritation to chemical burns and blindness.

SKIN CONTACT: (Acute) Exposure to dry Portland cement may cause drying of the skin with consequent mild irritation. **(Chronic)** Exposure to wet Portland cement or Dry Portland cement coming in contact with wet skin may cause more severe skin effects, including thickening, or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns. **(Acute/Chronic)** Upon exposure to Portland cement some individuals may exhibit an allergic response ranging from a mild rash to severe skin ulcers.

INHALATION: (Acute) Exposure to Portland cement may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system. Pre-existing upper respiratory and lung diseases may be aggravated by inhalation of Portland cement.

(Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung, diseases or conditions.

INGESTION: (Acute/Chronic) Internal discomfort or ill effects are possible if large quantities are swallowed.

CARCINOGENIC POTENTIAL: Portland cement is not recognized as a carcinogen by NTP, OSHA, or IARC. However, it may contain trace amounts of heavy metals recognized as carcinogens by these organizations.

6. Precautions for Handling, Storage and Disposal

HANDLING AND STORAGE: Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection.

SPILL: Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate container for disposal or use. Avoid inhalation of dust and contact with skin and eyes.

DISPOSAL: Dispose of packaging/containers according to local and state regulations for disposal of unusable or contaminated materials.



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7. Fire and Explosion

- **FLASH POINT:** Not Combustible
- **LOWER EXPLOSIVE LIMIT:** None
- **UPPER EXPLOSIVE LIMIT:** None
- **FLAMMABLE LIMITS:** Not Applicable
- **EXTINGUISHING MEDIA:** Not Combustible
- **HAZARDOUS COMBUSTION PRODUCTS:** None

SPECIAL FIRE FIGHTING PROCEDURES:

- Be Aware of runoff from fire control methods.
- Do not release material or waterways, as product reacts with water and becomes hard within 1 to 6 hours.
- Hardened material may clog sewers and waterways

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 Portland 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. Exposure Controls and Personal Protection

RESPIRATORY PROTECTION:

- Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits.
- Minimize dispersal of dust into the air.
- When dust causes irritation or discomfort, use NIOSH approved respirators.

EYE PROTECTION: Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environment, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products.

SKIN PROTECTION: Wear impervious abrasion- and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with dry Portland cement or clothing dampened with moisture mixed with Portland cement, and launder before re-use.



10. Transportation Information

Portland cement is not hazardous under Egyptian TDG regulations.

11. Other Information

This MSDS provides information on various types of Portland cement products. A particular product's composition may vary from sample to sample. The information provided herein is believed by Cleopatra ElMinya 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 Portland 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 CLEOPATRA ELMIYNYA CEMENT COMPANY

12. Abbreviations

- **ACGIH:** American Conference of Governmental Industrial Hygienists
- **ASTM:** American Society for Testing and Materials
- **CAS:** Chemical Abstract Service
- **CERCLA:** Comprehensive Environmental Response, Compensation and Liability Act
- **CFR:** Code of Federal Regulations
- **ft³:** Cubic foot **IARC:** International Agency for Research on Cancer
- **m³:** Cubic meter **Mg:** Milligram
- **NIOSH:** National Institute for Occupational Safety and Health
- **NTP:** National Toxicology Program **OSHA:** Occupational Safety and Health Administration
- **PEL:** Permissible Exposure Limit
- **REL:** Recommended Exposure Limit
- **TDG:** Transportation of Dangerous Goods
- **TLV:** Threshold Limit Value **TSCA:** Toxic Substance Control Act
- **TWA:** Time Weighted Average
- **WHMIS:** Workplace Hazardous Materials Information System

13-Storage

This product should be stored in unopened in cool conditions and should be stacked in a safe and stable manner. This product may be stored in either indoor or outdoor conditions. Information on the maximum storage period can be found on the bag.