

SAFETY DATA SHEET

Argos Portland Clinker



1. IDENTIFICATION

Product Identifier Portland Cement Clinker

Synonyms: Clinker, CLK, KK.

Intended use of the product: Cement clinker is produced by heating to high temperature a mixture of substances such as limestone and shale. When cement clinker is ground with a specified amount of gypsum, it will produce Portland cement or when ground with specified amounts of gypsum and other pozzolanic materials it will produce blended cements.

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2. HAZARD IDENTIFICATION

According to OSHA 29 CFR 1910.1200 HCS

Classification of the Substance or Mixture

Classification (GHS-US):		
Skin Corrosion/Irritation	Category 1	H314
Skin Sensitization	Category 1	H317
Serious Eye Damage/Eye Irritation	Category 1	H318
STOT SE	Category 3	H335
Carcinogenicity	Category 1A	H350

Labeling Elements



Signal Word (GHS-US): Danger

Hazard Statements (GHS-US):
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H350 - May cause cancer.

Precautionary Statements (GHS-US):
Prevention
P201 - Obtain special instructions before use.
P202- Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264- Wash thoroughly after handling.

SAFETY DATA SHEET

Argos Portland Clinker



P271- Use only outdoors or in a well-ventilated area.
 P272- Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response	<p>P301+P330+P331- If swallowed: Rinse mouth. Do not induce vomiting. P303+361+353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water/shower. P304+P340- If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P308+P313- If exposed or concerned: Get medical attention/advice. P310-Immediately call a poison center or doctor P333+P313- If skin irritation or a rash occurs: Get medical advice/attention. P363- Wash contaminated clothing before reuse.</p>
Storage	P403+P233- Store in a well-ventilated place. Keep container tightly closed
Disposal	P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition Information

Name	Product Identifier (CAS#)	% (w/w)	Classification
Portland cement	65997-15-1	100	Skin Irr. 1C (H314) Eye Corr. 1 (H318) Skin Sens. 1 (H317) STOT SE 3 (H335)
Calcium carbonate	1317-65-3	0-5	Not Classified
Calcium oxide	1305-78-8	0-5	Skin Irr. 1C (H314) Eye Irr. 1 (H318) STOT SE 3 (H335)
Magnesium oxide	1309-48-4	0-5	Not Classified
Quartz	14808-60-7	0-0.2	Carc. 1A (H350) STOT RE 1 (H372)

The exact percentage (concentration) of the composition has been withheld as proprietary.

Small amounts of naturally occurring, but potentially harmful, chemical compounds might be detected during chemical analysis. These trace compounds might include heavy metals such as arsenic, cadmium, chromium, nickel and lead.

4. FIRST AID MEASURES

Route	Measures
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Inhalation of large amounts of Portland cement requires immediate medical attention. Call a poison center

SAFETY DATA SHEET

Argos Portland Clinker



	or physician.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth with water and afterwards drink plenty of water. Get immediate medical attention.
Eye Contact	In case of contact get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 30 minutes. Chemical burns must be treated promptly by a physician.
Skin Contact	Remove contaminated clothing and shoes. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Get medical attention immediately. Heavy exposure to Portland cement dust, wet concrete or associated water requires prompt attention. Burns should be treated as caustic burns. Portland cement causes skin burns with little warning. Discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure. Chemical burns must be treated promptly by a physician.
Absorption	As with skin contact, remove contaminated clothing and flush with copious amounts of water. Flush affected area for at least 15 minutes to minimize potential for further absorption. Seek medical attention if significant portions of skin have been exposed.

Most Important Symptoms

May cause skin burns. May cause serious eye damage. May cause allergic skin reaction. Carcinogen; breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed

Note to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Use an extinguishing agent suitable for the surrounding fire.

Specific Hazards / Products of Combustion

No specific fire or explosion hazard.

Special Precautions and Protective Equipment for Firefighters

Move containers from fire area if this can be done without risk. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

See Section 9 for fire properties of this chemical including flash point, autoignition temperature, and explosive limits

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 for additional information.

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if reportable thresholds have entered the environment, including waterways, soil or air. Materials can enter waterways through drainage systems.

Containment and Clean-Up Methods

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or

SAFETY DATA SHEET

Argos Portland Clinker



confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place dust in a closed, labeled waste container. Large spills to waterways may be hazardous due to alkalinity of the product. Dispose of waste material using a licensed waste disposal contractor

7. HANDLING AND STORAGE

Handling Precautions

Avoid contact with eyes, skin, or clothing. This product contains quartz, which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Keep in the original container or an approved alternative made from a compatible material and keep the container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Keep container tightly closed in a dry and well-ventilated place. Avoid contact with water and moisture. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Calcium Carbonate (CAS#1317-65-3)

USA OSHA Table Z-1 Limits for Air Contaminants	PEL (mg/m ³)	5 mg/m ³ (respirable fraction) 15 mg/m ³ (total dust)
Canada. Alberta OELs	TWA (mg/m ³)	10 mg/m ³
Canada. British Columbia OELs.	STEL (mg/m ³) TWA (mg/m ³)	20 mg/m ³ Total dust 3 mg/m ³ (respirable fraction) 10 mg/m ³ (total dust)
Mexico. Occupational Exposure Limit Values	STEL (mg/m ³) TWA (mg/m ³)	20 mg/m ³ 10 mg/m ³

Calcium Oxide (CAS#1305-78-8)

USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (respirable fraction)
USA OSHA Table Z-1 Limits for Air Contaminants	PEL (mg/m ³)	5 mg/m ³
Canada. Alberta OELs	TWA (mg/m ³)	2 mg/m ³
Canada. British Columbia OELs.	TWA (mg/m ³)	2 mg/m ³
Canada. Ontario OELs	TWA (mg/m ³)	2 mg/m ³
Canada. Quebec OELs	TWA (mg/m ³)	2 mg/m ³
Mexico. Occupational Exposure Limit Values	TWA (mg/m ³)	2 mg/m ³

Magnesium oxide (CAS#1309-48-4)

USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)
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SAFETY DATA SHEET

Argos Portland Clinker



USA OSHA Table Z-1 Limits for Air Contaminants	PEL (mg/m ³)	15 mg/m ³ (total particulate)
Canada. Alberta OELs	TWA (mg/m ³)	10 mg/m ³ (fume)
Canada. British Columbia OELs.	STEL, (mg/m ³) TWA (mg/m ³)	10 mg/m ³ (respirable dust and/or fume) 3 mg/m ³ (respirable dust and/or fume)
Canada. Ontario OELs	TWA (mg/m ³)	10 mg/m ³ (Inhalable fume)
Canada. Quebec OELs	TWA (mg/m ³)	10 mg/m ³ (Inhalable fraction)
Mexico. Occupational Exposure Limit Values	TWA (mg/m ³)	10 mg/m ³ (fume) 10 mg/m ³ (fume)

Portland cement (CAS#65997-15-1)

USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (respirable fraction)
USA OSHA Table Z-1 Limits for Air Contaminants	PEL (mg/m ³)	5 mg/m ³ (respirable fraction) 15 mg/m ³ (total dust)
USA OSHA Table Z-3	TWA (mppcf)	50 mppcf
Canada. Alberta OELs	TWA (mg/m ³)	10 mg/m ³
Canada. British Columbia OELs.	TWA (mg/m ³)	3 mg/m ³ (respirable fraction) 10 mg/m ³ (total dust)
Canada. Ontario OELs	TWA (mg/m ³)	10 mg/m ³
Canada. Quebec OELs	TWA (mg/m ³)	5 mg/m ³ (respirable dust) 10 mg/m ³ (total dust)
Mexico. Occupational Exposure Limit Values	STEL (mg/m ³) TWA (mg/m ³)	20 mg/m ³ 10 mg/m ³

Quartz (CAS#14808-60-7)

USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
USA OSHA Table Z-1 Limits for Air Contaminants	PEL (mg/m ³)	0.05 mg/m ³ Ca.
USA OSHA Table Z-3	PEL (mg/m ³)	10 mg/m ³ (respirable fraction) (%SiO ₂ + 2); 30 mg/m ³ (total dust) (%SiO ₂ + 2)
Canada. Alberta OELs	TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Canada. British Columbia OELs.	TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Canada. Ontario OELs	TWA (mg/m ³)	0.1 mg/m ³ (Inhalable)
Canada. Quebec OELs	TWA (mg/m ³)	0.1 mg/m ³ (respirable fraction)
Mexico. Occupational Exposure Limit Values	TWA (mg/m ³)	0.025 mg/m ³

SAFETY DATA SHEET

Argos Portland Clinker



Particles Not Otherwise Regulated (RR-00072-6)

USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (total particulate) 3 mg/m ³ (respirable fraction)
USA OSHA Table Z-1 Limits for Air Contaminants	PEL (mg/m ³)	15 mg/m ³ (total particulate) 5 mg/m ³ (respirable fraction)
Canada. Alberta OELs	TWA (mg/m ³)	10 mg/m ³ (total dust) 10 mg/m ³ (respirable dust)
Canada. British Columbia OELs.	TWA (mg/m ³)	10 mg/m ³ (total dust)
Canada. Ontario OELs	TWA (mg/m ³)	10 mg/m ³ (Inhalable fraction)
Canada. Quebec OELs	TWA (mg/m ³)	10 mg/m ³ (fume)
Mexico. Occupational Exposure Limit Values	TWA (mg/m ³)	10 mg/m ³ (fume)

Engineering Controls

Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal Protective Equipment

Exposure	Equipment
Eye / Face	To prevent eye contact, wear safety glasses with side shields, safety goggles or face shields when handling dust or wet cement. Wearing contact lenses when working with cement is not recommended.
Skin	Use impervious, waterproof, abrasion and alkali-resistant gloves. Do not rely on barrier creams in place of impervious gloves. Do not get Portland cement inside gloves
Respiratory	Avoid tasks which cause dust to become airborne. Use local or general ventilation to control exposure below applicable exposure limits. Use NIOSH/MSHA approved (30 CFR 11) or NIOSH approved (42 CFR 84) respirators in poorly ventilated areas, or if an applicable exposure limit is exceeded, or when dust causes discomfort or irritation.
General Hygiene considerations	Periodically wash affected areas contacted by dry or wet cement products with a pH neutral soap. When using, do not eat, drink, or smoke. Wash again at the end of work. If clothing becomes saturated with wet cement products, it should be removed and replaced with clean dry clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Comments
Appearance	Gray, nodular, rock-like solid	
Physical State	Solid	
Odor	Odorless	
Odor Threshold	Not available	
pH	12-13 in water	
Melting / Freeze Point	Not available	
Boiling Point And Range	> 1832 °F (> 1000 °C)	

SAFETY DATA SHEET

Argos Portland Clinker



Property	Value	Comments
Flash Point	Not flammable. Not combustible.	
Evaporation Rate	Not available	
Flammability	Not available	
Flammability Limits	Not available	
Vapor Pressure	Not available	
Vapor Density	Not available	
Specific Gravity	3.15	
Solubility	Slightly soluble in water (0.1-1.0%)	
Partition Coefficient	Not available	
Autoignition Temperature	Not available	
Decomposition Temperature	Not available	
Viscosity	Not available	
Percent Volatiles	Not available	

10. STABILITY AND REACTIVITY

Reactivity

Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete.

Stability

The product is stable under normal conditions of use, storage and transport.

Reactions / Polymerization

Not expected to occur

Conditions to Avoid

Contact with incompatible materials. Exposure to moisture may affect product quality.

Incompatible Materials

Wet material is alkaline and will react with acids, ammonium salts, aluminum and other reactive metals. Hardened material is attacked by hydrofluoric acid releasing toxic silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

Hazardous Decomposition Products

None expected under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Acute Toxicity (Inhalation LC50)

Portland cement (CAS#65997-15-1): >1 mg/L (rat, 4hr)

Magnesium oxide (CAS#1309-48-4): No data available.

Crystalline silica (CAS#14808-60-7): No data available.

SAFETY DATA SHEET

Argos Portland Clinker



Calcium Carbonate (CAS#1317-65-3): LC50 > 3 mg/L (rat, 4 hr) (Similar substance)

Acute Toxicity (Oral LC50)

Portland cement (CAS#65997-15-1): No data available.

Magnesium oxide (CAS#1309-48-4): LD50 3870 mg/kg (rat)

Crystalline silica (CAS#14808-60-7): LD50 500 mg/kg (rat)

Calcium Carbonate (CAS#1317-65-3): LD50 6450 mg/kg (rat) (similar substance)

Acute Toxicity (Dermal LC50)

Portland cement (CAS#65997-15-1): No data available.

Magnesium oxide (CAS#1309-48-4): No data available.

Crystalline silica (CAS#14808-60-7): No data available.

Calcium Carbonate (CAS#1317-65-3): LD50 > 2000 mg/kg (Similar substance)

Skin Corrosion/Irritation: May cause skin irritation. May cause serious burns in the presence of moisture

Serious Eye Damage/Irritation: Causes serious eye damage. May cause burns in the presence of moisture.

Respiratory or Skin Sensitization: May cause respiratory tract irritation.

Germ Cell Mutagenicity: No data available.

Carcinogenicity:

Cement may contain trace amounts of respirable crystalline silica and hexavalent chromium which are classified by NTP and IARC as known human carcinogens.

ACGIH Carcinogens

Magnesium oxide (CAS 1309-48-4): A4 Not classifiable as a human carcinogen.

Portland cement (CAS 65997-15-1): A4 Not classifiable as a human carcinogen.

Crystalline silica (CAS 14808-60-7): A2 Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline silica (CAS 14808-60-7): 1 Carcinogenic to humans.

US NTP Report on Carcinogens: Known carcinogen

Crystalline silica (CAS 14808-60-7): Known To Be Human Carcinogen.

US OSHA Specifically Regulated Substances: Cancer hazard

No data available

Teratogenicity: No data available

Specific Target Organ Toxicity (Repeated Exposure): Crystalline silica, Category 1, route of exposure: inhalation, target organs: respiratory tract and organs.

Specific Target Organ Toxicity (Single Exposure): Magnesium oxide, Portland cement; Category 3, route of exposure: inhalation and skin contact, target organs: Respiratory tract irritation, skin irritation.

Aspiration Hazard: No data available

Potential Health Effects: Causes serious eye damage. May cause respiratory irritation. Causes severe burns. May cause an allergic skin reaction. Ingestion: May cause burns to mouth, throat and stomach.

Chronic effects: Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and

SAFETY DATA SHEET

Argos Portland Clinker



end-stage kidney disease in workers exposed to respirable crystalline silica. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Danger of serious damage to health by prolonged exposure.

Crystalline silica is considered a hazard by inhalation. IARC has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Excessive exposure to crystalline silica can cause silicosis, a non-cancerous lung disease. Portland cement (CAS# 65997-15-1): is not classifiable as a human carcinogen.

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. If sensitized to hexavalent chromium, a severe allergic dermal reaction may occur when subsequently exposed to very low levels.

12. ECOLOGICAL INFORMATION

Toxicity:

Data for Portland cement (Mixture):

Aquatic Toxicity-Acute EC50 350 mg/L (Exposure time: 48 h - Species: Daphnia)

Aquatic Toxicity-Chronic No data available.

Data for Component: Crystalline silica (CAS#14808-60-7)

Aquatic Toxicity – Acute Daphnia magna 24 hr LL50 > 10000 mg/L;

Danio rerio 96 hr LL0 = 10000 mg/L

Desmodesmus subspicatus 72 hr EC50 > 14 mg/L (similar substance)

Aquatic Toxicity –Chronic No data available.

Persistence and Degradation: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

Other Information: No data available.

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

US DOT

UN Identification Number	Not regulated
Proper Shipping Name	Not available
Hazard Class and Packing Group	Not available
Shipping Label	Not available
Placard / Bulk Package	Not available
Emergency Response Guidebook Guide Number	Not available

SAFETY DATA SHEET

Argos Portland Clinker



IATA Cargo

UN Identification Number	Not regulated
Shipping Name / Description	Not available
Hazard Class and Packing Group	Not available
ICAO Label	Not available
Packing Instructions Cargo	Not available
Max Quantity Per Package Cargo	Not available

IATA Passenger

UN Identification Number	Not regulated
Shipping Name / Description	Not available
Hazard Class and Packing Group	Not available
ICAO Label	Not available
Packing Instructions Passenger	Not available
Max Quantity Per Package	Not available

IMDG

UN Identification Number	Not regulated
Shipping Name / Description	Not available
Hazard Class and Packing Group	Not available
IMDG Label	Not available
EmS Number	Not available
Marine Pollutant	Not available

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Federal, State, and Local Regulatory Information

U.S. Toxic Substances Control Act

All components are on the U.S. EPA TSCA Inventory List.

United States inventory (TSCA 8b): Portland cements are considered to be statutory mixtures under TSCA.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D: Not regulated)

CERCLA: This product is not listed as a CERCLA substance.

SARA Section 313- Supplier Notification

This product contains the following chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

Component name	Component ID	Typical level, %	<i>De minimis</i> % Limit*
Mercury	7439-97-6	0.00003	There are no <i>de minimis</i> levels for chemicals of special concern
Lead	7439-92-1	0.0008	

*This product may contain trace amounts of naturally occurring toxic chemicals eligible for the de minimis reporting requirements including: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Manganese, Nickel, Selenium, Silver, Thallium, Zinc.

Clean Air Act Section 112 (b): Hazardous Air Pollutants (HAPs) — Not listed

Clean Air Act Section 602: Class I Substances — Not listed

Clean Air Act Section 602: Class II Substances — Not listed

DEA List I Chemicals: (Precursor Chemicals) — Not listed

SAFETY DATA SHEET

Argos Portland Clinker



DEA List II Chemicals: (Essential Chemicals) — Not listed

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard-Yes

Delayed (Chronic) Health Hazard-Yes

Fire Hazard-No

Reactive Hazard-No

Sudden Release of Pressure Hazard-No

Pennsylvania Right to Know Hazardous Substance list:

Magnesium oxide (CAS# 1309-48-4)

Portland cement (CAS# 65997-15-1)

Crystalline silica (CAS#14808-60-7)

Calcium Carbonate (CAS# 1317-65-3)

New Jersey Right to Know Hazardous Substance list:

Portland cement (CAS# 65997-15-1)

Calcium Carbonate (CAS# 1317-65-3)

Magnesium oxide (CAS #1309-48-4)

Crystalline silica (CAS# 14808-60-7)

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause Cancer or Reproductive Toxicity.

Crystalline silica (CAS# 14808-60-7)

CEPA - Domestic Substances List (DSL)

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Canadian Regulatory Information (WHMIS)

Class D, Division 2A - Other Toxic Effects-VERY TOXIC

Class E, Corrosive

WHMIS labeling



Inventory status	Country(s) or region Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

SAFETY DATA SHEET

Argos Portland Clinker



Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

16. OTHER INFORMATION

Further information A HMIS® Health rating including an * indicates a chronic hazard

HMIS® ratings

Health: 3*

Flammability: 0

Reactivity: 1

NFPA ratings

Health: 3

Flammability: 0

Reactivity: 1

Version: 08/18/2021

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Prior Issue Date 06/15/2020

Description of Revisions

Revised Section 1 with new contact name.

Revised Section 3 with addition of statement regarding naturally occurring trace compounds.

Revised format of Section 8.

Revised Section 15.

Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of Portland cement as it is commonly used, the sheet 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. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Portland cement to produce Portland cement products. Users should review other relevant material safety data sheets before working with this Portland cement or working on Portland cement products, for example, Portland cement concrete.

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 (**Argos USA LLC**), except that the product shall conform to contracted specifications. The information provided herein was believed by the (**Argos USA LLC**) to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

Abbreviations

ACGIH — American Conference of Governmental Industrial Hygienists

CAS#— Chemical Abstract Service

CERCLA — Comprehensive Emergency Response and Comprehensive Liability Act

CFR — Code of Federal Regulations

DOT — Department of Transportation

GHS — Globally Harmonized System

SAFETY DATA SHEET

Argos Portland Clinker



HEPA — High Efficiency Particulate Air
IATA — International Air Transport Association
IARC — International Agency for Research on Cancer
IMDG — International Maritime Dangerous Goods
NIOSH — National Institute of Occupational Safety and Health
NOEC — No Observed Effect Concentration
NTP — National Toxicology Program
OSHA — Occupational Safety and Health Administration
PEL — Permissible Exposure Limit
REL — Recommended Exposure Limit
RQ — Reportable Quantity
SARA — Superfund Amendments and Reauthorization Act
SDS — Safety Data Sheet
TLV — Threshold Limit Value
TPQ — Threshold Planning Quantity
TSCA — Toxic Substances Control Act
TWA — Time-Weighted Average
UN — United Nations

Disclaimer Statement

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** End of Safety Data Sheet **