

# SAFETY DATA SHEET

## Argos Blended Cement



### 1. IDENTIFICATION

Product Identifier: Blended Cement

Synonyms: Pozzolan Cement, Sulfate Resistant Cement, Silica Fume Cement, Performance Cement, Portland Slag Blended Cement, Portland-Limestone Cement, EcoStrong PLC, PLC, Ternary Cement, LC3, Type IT, Type IL, Portland fly Ash Blended Cement Type IS, S, P, IP, I(PM), I(SM), GUb, HEb, MSb, HSb, MHb, 10S, 10SM, 10F, 10FM, 50S Cement, Florida Blended Cement Type IP, IS., Tank-Weld Cement (TWC) and Super Grey Cement.

Intended use of the product: Cement is used as a binder in concrete and mortars that are widely used in construction.

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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
STOT RE	Category 1	H372

#### Labeling Elements



Signal Word (GHS-US): Danger

Hazard Statements (GHS-US):

- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H335 - May cause respiratory irritation.
- H350 - May cause cancer.
- H372 - Causes damage to lung through prolonged or repeated exposure inhalation.

Precautionary Statements (GHS-US):

Prevention

- P201 - Obtain special instructions before use.
- P202- Do not handle until all safety precautions have been read and understood
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P264- Wash thoroughly after handling.

# SAFETY DATA SHEET

## Argos Blended Cement



P270- Do not eat, drink or smoke when using this product.  
 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	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.
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	5-95	Skin Irr. 1C (H314) Eye Corr. 1 (H318) Skin Sens. 1 (H317) STOT SE 3 (H335)
Fly Ash	68131-74-8	0-50	Not Classified
Slag Cement	65996-69-2	0-80	Not Classified
Limestone	1317-65-3	0-50	Not Classified
Calcium oxide	1305-78-8	0-30	Skin Irr. 1C (H314) Eye Irr. 1 (H318) STOT SE 3 (H335)
Calcium sulfate dihydrate	13397-24-5	1-10	Not Classified
Magnesium oxide	1309-48-4	0-10	Not Classified
Quartz	14808-60-7	0-10	Carc. 1A (H350) STOT RE 1 (H372)
Silica, Fume	69012-64-2	0-10	Not Classified

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

# SAFETY DATA SHEET

## Argos Blended Cement



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	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 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	Wash off with plenty of water. Remove contaminated clothing and shoes. Launder contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention
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.

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### Most Important Symptoms

Product becomes alkaline when exposed to moisture and 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. Inhalation of dusts may cause respiratory irritation or burns.

### 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

### Flammable properties

This product is not flammable or combustible

### 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.

# SAFETY DATA SHEET

## Argos Blended Cement



### Containment and Clean-Up Methods

For a dry material spill, use a HEPA (high efficiency particle air) vacuum to collect material and place in a sealable container for disposal. Avoid dust formation. For a wet spill, absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for disposal. Neutralize the spill area. Use materials that can withstand the potentially corrosive nature of this product. Do not get water inside containers.

## 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 Oxide (CAS#1305-78-8)

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

### Calcium sulfate dehydrate (CAS#13397-24-5)

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

# SAFETY DATA SHEET

## Argos Blended Cement



### Limestone (CAS#1317-65-3)

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

### Magnesium oxide (CAS#1309-48-4)

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

### Portland cement (CAS#65997-15-1)

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

# SAFETY DATA SHEET

## Argos Blended Cement



### Quartz (CAS#14808-60-7)

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

### Silica, fume(CAS#69012-64-2)

USA OSHA Table Z-3	TWA (mg/m <sup>3</sup> )	0.8 mg/m <sup>3</sup>
	TWA (mppcf)	20 mppcf
Canada. British Columbia OELs.	TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> (total fume) 1.5 mg/m <sup>3</sup> (respirable fume)
	TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (respirable fraction)
Canada. Ontario OELs	TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (respirable dust and/or fume)
Canada. Quebec OELs	TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (respirable dust and/or fume)
Mexico. Occupational Exposure Limit Values	TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable dust)
	TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable particulate)

### Engineering Controls

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure 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	Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information. Use barrier creams to prevent skin contact
Respiratory	Wear respirator with dust filter. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection.
General Hygiene considerations	Provide eyewash station and safety shower. When using, do not eat, drink or smoke. Wash hands after handling. Handle in accordance with good industrial hygiene and safety practice.

# SAFETY DATA SHEET

## Argos Blended Cement



### 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Comments
Appearance	gray or white Powder	
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)	
Flash Point	Not available	
Evaporation Rate	Not available	
Flammability	Not available	
Flammability Limits	Not available	
Vapor Pressure	Not available	
Vapor Density	Not available	
Specific Gravity	3-3.2	
Solubility	Slightly soluble in water (0.1-1%)	
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.

# SAFETY DATA SHEET

## Argos Blended Cement



### Hazardous Decomposition Products

None expected under normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

**Acute Effects:** Product becomes alkaline when exposed to moisture. Contact with wet concrete can burn skin and eyes. Dust from the dry material can cause irritation and possible burns to the eyes and respiratory tract. Symptoms can be delayed.

### Acute Toxicity (Inhalation LC50)

Portland cement (CAS#65997-15-1): >1 mg/L (rat, 4hr)  
Calcium oxide (CAS#1305-78-8): > 160 mg/m<sup>3</sup> 4 hr (Similar substance)  
Calcium sulfate dehydrate (CAS#13397-24-5): LC50 > 3.26 mg/L air (inhalation, dust, 4 h)  
Limestone (CAS#1317-65-3): LC50 > 3 mg/L (rat, 4 hr) (Similar substance)  
Magnesium oxide (CAS#1309-48-4): No data available.  
Quartz (CAS#14808-60-7): No data available.  
Silica, Fume (CAS#69012-64-2): No data available.  
Fly ash (CAS#68131-74-8): No data available.  
Slag cement (CAS#65996-69-2): No data available.

### Acute Toxicity (Oral LC50)

Portland cement (CAS#65997-15-1): No data available.  
Calcium oxide (CAS#1305-78-8): LD50 > 2000 mg/kg (rat)  
Calcium sulfate dehydrate (CAS#13397-24-5): LD50 > 2000 mg/kg bw (rat)  
Limestone (CAS#1317-65-3): LD50 6450 mg/kg (rat) (similar substance)  
Magnesium oxide (CAS#1309-48-4): LD50 3870 mg/kg (rat)  
Quartz (CAS#14808-60-7): LD50 500 mg/kg (rat)  
Silica, Fume (CAS#69012-64-2): LD50 > 5000mg/kg (rat)  
Fly ash (CAS#68131-74-8): Oral LD50 Rat >2000 mg/kg  
Slag cement (CAS#65996-69-2): No data available.

### Acute Toxicity (Dermal LC50)

Portland cement (CAS#65997-15-1): No data available.  
Calcium oxide (CAS#1305-78-8): LD50 > 5000 mg/kg (rabbit)(similar substance)  
Calcium sulfate dehydrate (CAS#13397-24-5): No data available.  
Limestone (CAS#1317-65-3): LD50 > 2000 mg/kg (Similar substance)  
Magnesium oxide (CAS#1309-48-4): No data available.  
Quartz (CAS#14808-60-7): No data available.  
Silica, Fume (CAS#69012-64-2): LD50 > 5000mg/kg (rat)  
Fly ash (CAS#68131-74-8): No data available.  
Slag cement (CAS#65996-69-2): No data available.

### Skin Corrosion/Irritation:

Causes 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:

Portland cement (CAS# 65997-15-1): is reported to cause dermatitis and skin sensitization after repeated exposure.

### 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



# SAFETY DATA SHEET

## Argos Blended Cement



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.

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

### IARC Monographs. Overall Evaluation of Carcinogenicity

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

Silica, fume (CAS 69012-64-2): 3 Not classifiable as to carcinogenicity to humans.

### US NTP Report on Carcinogens: Known carcinogen

Quartz (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):** Quartz (CAS #14808-60-7): Category 1, route of exposure: inhalation, target organs: respiratory tract and organs.

**Specific Target Organ Toxicity (Single Exposure):** Calcium oxide, 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. May cause nausea, stomach pain and vomiting.

**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 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- EC50 350 mg/L (Exposure time: 48 h - Species: Daphnia)

Acute

Data for Component: Calcium sulfate dihydrate (CAS#13397-24-5)

Aquatic Toxicity- LC50 > 1970 mg/l (Exposure time: 96h - Species: Fathead minnow (Pimephales promelas))

Acute

Data for Component: Calcium oxide (CAS#1305-78-8)

Aquatic Toxicity-Acute Cyprinus carpio 96 hr LC50 = 1070 mg/L

# SAFETY DATA SHEET

## Argos Blended Cement



Aquatic Toxicity- Tilapia nilotica 46 days NOEC = 100 mg/L  
Chronic

Data for Component: Quartz (CAS#14808-60-7)  
Aquatic Toxicity – Acute Daphnia magna 24 hr LL50 > 10000 mg/L;  
Danio rerio 96 hr LLO = 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

#### 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

# SAFETY DATA SHEET

## Argos Blended Cement



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.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Annual Export Notification required.

##### 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, %	De minimis % 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

**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 Hazard (Acute) - Yes

Delayed Hazard (Chronic) - Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)**-No

**State regulations** WARNING: This product contains chemical(s) known to the State of California to cause cancer.

**US - California Hazardous Substances (Director's):**

Calcium oxide (CAS 1305-78-8)

Magnesium oxide (CAS 1309-48-4)

Silica, fume (CAS 69012-64-2)

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):**

Quartz (CAS 14808-60-7)

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Quartz (CAS 14808-60-7) Listed: October 1, 1988 Carcinogenic.

**US - Massachusetts RTK - Substance: Listed substance**

Calcium oxide (CAS 1305-78-8)

Calcium sulfate dihydrate (CAS 13397-24-5)

Limestone (CAS 1317-65-3)

Magnesium oxide (CAS 1309-48-4)

# SAFETY DATA SHEET

## Argos Blended Cement



Portland cement (CAS 65997-15-1)  
 Quartz (CAS 14808-60-7)  
 Silica, fume (CAS 69012-64-2)

**US - New Jersey RTK - Substances: Listed substance**

Calcium oxide (CAS 1305-78-8)  
 Calcium sulfate dihydrate (CAS 13397-24-5)  
 Limestone (CAS 1317-65-3)  
 Magnesium oxide (CAS 1309-48-4)  
 Portland cement (CAS 65997-15-1)  
 Quartz (CAS 14808-60-7) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Calcium oxide (CAS 1305-78-8)  
 Calcium sulfate dihydrate (CAS 13397-24-5)  
 Limestone (CAS 1317-65-3)  
 Magnesium oxide (CAS 1309-48-4)  
 Portland cement (CAS 65997-15-1)  
 Quartz (CAS 14808-60-7)  
 Silica, fume (CAS 69012-64-2)

**US - Minnesota - Hazardous Substances: Listed substance**

Silica, fume (CAS 69012-64-2)

**Canadian Regulatory Information**

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.

**WHMIS status**

Controlled

**WHMIS classification**

D2A - Other Toxic Effects-VERY TOXIC  
 E – Corrosive

**WHMIS labeling**



Inventory status	Country(s) or region Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. OTHER INFORMATION

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

# SAFETY DATA SHEET

## Argos Blended Cement



Health: 3\*  
Flammability: 0  
Physical hazard: 1

### NFPA ratings

Health: 3  
Flammability: 0  
Instability: 0

Version: 02 Feb 2024  
Issue Date: 01 Nov 2016  
Prior Issue Date: 27 Oct 2023

### Description of Revisions

Revised Section 1 with new contact name.

### 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  
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

# **SAFETY DATA SHEET**

## **Argos Blended Cement**



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**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

\*\* End of Safety Data Sheet \*\*