

# SAFETY DATA SHEET

## Argos Slag



### 1. IDENTIFICATION

Product Identifier	Argos Slag
Synonyms:	SUPERCEM®, Lightweight Aggregate, Pelletized Slag, Ground Granulated Blast Furnace Slag (GGBFS), Blast Furnace Slag, Steel Slag, Granulated Slag, Pelletized Slag, Metallic Slag, Air Cooled Slag, Non-metallic Slag, Slag Cement, Hydraulic Slag Cement, Slag.
Intended use of the product:	Slag is used as an additive for cement and a supplementary cementitious material for concrete and concrete products. It is also used in soil stabilization and as a filler in asphalt and other products that are widely used in construction.
Contact:	Argos USA LLC 3015 Windward Plaza Suite 300 Alpharetta, GA 30005 mheaton@argos-us.com Contact Person: Michael J. Heaton
Contact Information:	CHEMTREC EMERGENCY TELEPHONE NUMBER (24 hrs): (800)424-9300 COMPANY CONTACT (business hours): (678)368-4300 (8 AM-4 PM EST)

### 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
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. 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

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P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264- Wash thoroughly after handling.  
P270- Do not eat, drink or smoke when using this product.  
P271- Use only outdoors or in a well-ventilated area.  
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  
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
Slags, ferrous metal, blast furnace	65996-69-2	90-100	Not Classified
Calcium oxide	1305-78-8	0-30	Skin Irr. 1C (H314) Eye Irr. 1 (H318) STOT SE 3 (H335)
Silica, amorphous	7631-86-9	25-50	Not Classified
Magnesium oxide	1309-48-4	0.1-20	Skin Irr. 3 (H316) Eye Irr. 2 (H320) STOT SE 3 (H335)
Quartz	14808-60-7	0.1-15	Carc. 1A (H350) STOT RE 1 (H372)
Gypsum	13397-24-5	0-10	Not Classified
Aluminum oxide	1344-28-1	2-15	Not Classified

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

### 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. Call a poison center or physician.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth with water

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Eye Contact	and afterwards drink plenty of water. Get immediate medical attention. 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

May cause serious eye damage. May cause skin irritation. May cause irritation of respiratory tract. 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

Do not use water jet. Use of heavy stream of water may spread fire. 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

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.

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### 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

#### Occupational Exposure Limits

##### US. ACGIH Threshold Limit Values

##### Components Type Value Form

Calcium oxide: TWA 2 mg/m<sup>3</sup>

(CAS#1305-78-8)

Magnesium oxide: TWA 10 mg/m<sup>3</sup> Inhalable fraction.

(CAS#1309-48-4)

Quartz: TWA 0.025 mg/m<sup>3</sup> Respirable fraction.

(CAS#14808-60-7)

Gypsum: TWA 10 mg/m<sup>3</sup> Inhalable fraction.

(CAS#13397-24-5)

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

##### Components Type Value Form

Calcium oxide: PEL 5 mg/m<sup>3</sup>

(CAS#1305-78-8)

Magnesium oxide: PEL 15 mg/m<sup>3</sup> Total particulate.

(CAS#1309-48-4)

Silica, amorphous: PEL 6 mg/m<sup>3</sup> TWA (<1% Crystalline silica)

Quartz: TWA 0.05 mg/m<sup>3</sup> Ca.

(CAS#14808-60-7)

Gypsum: PEL 5 mg/m<sup>3</sup> Respirable fraction 15 mg/m<sup>3</sup> Total dust.

(CAS#13397-24-5)

Aluminum oxide: 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction)

(CAS# 1344-28-1)

##### US. OSHA Table Z-3 (29 CFR 1910.1000)

##### Components Type Value Form

Silica, amorphous: PEL 20 mppcf TWA; (80)/ (% SiO<sub>2</sub>) mg/m<sup>3</sup> TWA

(CAS#7631-86-9)

Quartz: PEL 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).

(CAS#14808-60-7)

##### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

##### Components Type Value Form

Calcium oxide: TWA 2 mg/m<sup>3</sup>

(CAS#1305-78-8)

Magnesium oxide: TWA 10 mg/m<sup>3</sup> Fume.

(CAS#1309-48-4)

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Quartz: TWA 0.025 mg/m<sup>3</sup> Respirable fraction.

(CAS#14808-60-7)

Gypsum: TWA 10 mg/m<sup>3</sup>

(CAS#13397-24-5)

### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

#### Components Type Value Form

Calcium oxide: TWA 2 mg/m<sup>3</sup>

(CAS#1305-78-8)

Magnesium oxide: STEL 10 mg/m<sup>3</sup> Respirable dust and/or fume, TWA 3 mg/m<sup>3</sup> Respirable dust and/or fume, 10 mg/m<sup>3</sup> Inhalable fume.

(CAS1309-48-4)

Quartz: TWA 0.025 mg/m<sup>3</sup> Respirable fraction.

(CAS#14808-60-7)

Gypsum: STEL 20 mg/m<sup>3</sup> Total dust, TWA 10 mg/m<sup>3</sup> Inhalable

(CAS#13397-24-5)

### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

#### Components Type Value Form

Calcium oxide: TWA 2 mg/m<sup>3</sup>

(CAS#1305-78-8)

Gypsum: TWA 10 mg/m<sup>3</sup> Inhalable fraction.

(CAS#13397-24-5)

Magnesium oxide: TWA 10 mg/m<sup>3</sup> Inhalable fraction.

(CAS#1309-48-4)

Quartz: TWA 0.1 mg/m<sup>3</sup> Respirable.

(CAS#14808-60-7)

### Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

#### Components Type Value Form

Calcium oxide: TWA 2 mg/m<sup>3</sup>

(CAS#1305-78-8)

Magnesium oxide: TWA 10 mg/m<sup>3</sup> Fume.

(CAS#1309-48-4)

Quartz: TWA 0.1 mg/m<sup>3</sup> Respirable fraction.

(CAS#14808-60-7)

Gypsum: TWA 5 mg/m<sup>3</sup> Respirable dust, 10 mg/m<sup>3</sup> Total dust.

(CAS#13397-24-5)

### Mexico. Occupational Exposure Limit Values

#### Components Type Value Form

Calcium oxide: TWA 2 mg/m<sup>3</sup>

(CAS#1305-78-8)

Gypsum: TWA 10 mg/m<sup>3</sup>

(CAS#13397-24-5)

Magnesium oxide: TWA 10 mg/m<sup>3</sup> Fume.

(CAS#1309-48-4)

Quartz: TWA 0.025 mg/m<sup>3</sup>

(CAS#14808-60-7)

### 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

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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. Wearing contact lenses is not recommended.
Skin	Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.
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	Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. When using, do not eat, drink or smoke. Wash hands after handling. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Comments
Appearance	Gray/black or brown/tan powder	
Physical State	Solid	
Odor	Odorless	
Odor Threshold	Not available	
pH	8-10 in water	
Melting / Freeze Point	Not available	
Boiling Point And Range	> 1000 °C (1832.00 °F)	
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	2.3	
Solubility	Negligible.	
Partition Coefficient	Not available	
Autoignition Temperature	Not available	
Decomposition Temperature	Not available	
Viscosity	Not available	

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Property	Value	Comments
Percent Volatiles	Not available	

### 10. STABILITY AND REACTIVITY

#### Reactivity

Not expected to occur.

#### 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

Strong acids, strong bases, strong oxidizers.

#### Hazardous Decomposition Products

Oxides of iron. Metal oxides. Oxides of calcium. Silicon oxides. Oxides of aluminum. Oxides of magnesium.

### 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity (Inhalation LC50)

Calcium oxide (CAS#1305-78-8): > 160 mg/m<sup>3</sup> 4 hr (Similar substance)

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

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

Silica, amorphous (CAS# 7631-86-9): No data available.

Gypsum (CAS# 13397-24-5): LC50 > 3.26 mg/L air (inhalation, dust, 4 h)

Aluminum Oxide (CAS# 1344-28-1): > 2.3 mg/l (rat, 4h)

Slags, ferrous metal, blast furnace (CAS# 65996-69-2): LC50 > 5.235 mg/L (rat, 4h, dust)

#### Acute Toxicity (Oral LC50)

Calcium oxide (CAS#1305-78-8): LD50 > 2000 mg/kg (rat)

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

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

Silica, amorphous (CAS# 7631-86-9): > 5000 mg/kg (rat)

Gypsum (CAS# 13397-24-5): LD50 > 2000 mg/kg bw (rat)

Aluminum Oxide (CAS# 1344-28-1): > 15900 mg/kg (rat)

Slags, ferrous metal, blast furnace (CAS# 65996-69-2): > 2000 mg/kg (rat)

#### Acute Toxicity (Dermal LC50)

Calcium oxide (CAS#1305-78-8): LD50 > 5000 mg/kg (rabbit)(similar substance)

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

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

Silica, amorphous (CAS# 7631-86-9): > 5000 mg/kg (rat)

Gypsum (CAS# 13397-24-5): No data available

Aluminum Oxide (CAS# 1344-28-1): No data available.

Slags, ferrous metal, blast furnace (CAS# 65996-69-2): > 4000 mg/kg (rat)

#### Skin Corrosion/Irritation:

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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:**

May cause respiratory irritation.

**Germ Cell Mutagenicity:**

No data available.

**Carcinogenicity:**

May cause cancer.

**ACGIH Carcinogens**

Magnesium oxide (CAS 1309-48-4): 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, amorphous (7631-86-9): 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; 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 skin irritation. Ingestion is likely to be harmful or have adverse effects.

**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. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Causes damage to organs through prolonged or repeated exposure.

## 12. ECOLOGICAL INFORMATION

**Toxicity:**



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Data for component: Slags, ferrous metal, blast furnace (CAS# 65996-69-2)

Aquatic Toxicity-Acute      Leuciscus idus 96 hr LC50 > 1000 mg/L  
   Daphnia magna 48 hr EC50 > 1000 mg/L  
   Scenedesmus subspicatus 72 hr IC50 > 100 g/L  
Aquatic Toxicity- Chronic      Daphnia magna 21 days NOEC = 1563 mg/L

Data for Component: Gypsum (CAS#13397-24-5)

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

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

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

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

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

Aquatic Toxicity – Acute      Daphnia magna 24 hr LL50 > 10000 mg/L;  
   Danio rerio 96 hr LL0 = 10000 mg/L  
   Desmodemus subspicatus 72 hr EC50 > 14 mg/L (similar substance)

Aquatic Toxicity –Chronic      No data available.

Data for Component: Magnesium Oxide (CAS# 1309-48-4)

Aquatic Toxicity-Acute      Daphnia magna 48 hr Mortality = 129.9 mg/L

Aquatic Toxicity- Chronic      No data available.

Data for Component: Silica, amorphous (CAS# 7631-86-9)

Aquatic Toxicity-Acute      Brachydanio rerio 96 h LC50 = 5000 mg/L  
   Ceriodaphnia dubia 48 h EC50 = 7600 mg/L  
   Selenastrum capricornutum 72 h EC50 = 440 mg/L

Aquatic Toxicity- Chronic      No data available.

Data for Component: Aluminum Oxide (CAS# 1344-28-1)

Aquatic Toxicity-Acute      No data available.

Aquatic Toxicity- Chronic      No data available.

**Persistence and Degradation:** Argos Slag may cause long-term adverse effects in the environment.

**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.

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### 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
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/ SARA Section 313- Supplier Notification

Aluminum oxide (CAS#1344-28-1) : 1.0 % de minimis concentration (fibrous forms)

**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

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**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  
Drug Enforcement Administration (DEA) (21 CFR1308.11-15)-Not controlled**

**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)

**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)

Gypsum (CAS 13397-24-5)

Magnesium oxide (CAS 1309-48-4)

Quartz (CAS 14808-60-7)

Silica, amorphous (CAS 7631-86-9)

Aluminum oxide (CAS 1344-28-1)

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

Calcium oxide (CAS 1305-78-8)

Gypsum (CAS 13397-24-5)

Magnesium oxide (CAS 1309-48-4)

Quartz (CAS 14808-60-7)

Silica, amorphous (CAS 7631-86-9)

Aluminum oxide (CAS 1344-28-1)

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

Calcium oxide (CAS 1305-78-8)

Gypsum (CAS 13397-24-5)

Magnesium oxide (CAS 1309-48-4)

Quartz (CAS 14808-60-7)

Silica, amorphous (CAS 7631-86-9)

Aluminum oxide (CAS 1344-28-1)

**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**



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

Health: 3\*

Flammability: 0

Physical hazard: 1

### NFPA ratings

Health: 3

Flammability: 0

Instability: 0

Version: 15 June 2020

Issue Date: 01 Nov 2016

Prior Issue Date: 21 Mar 2016

### Description of Revisions

Revised Section 8 for Quartz (CAS#14808-60-7). Changed contact information.

### Notice to reader

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# SAFETY DATA SHEET

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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  
SDS — Safety Data Sheet  
TLV — Threshold Limit Value  
TPQ — Threshold Planning Quantity  
TSCA — Toxic Substances Control Act  
TWA — Time-Weighted Average  
UN — United Nations

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