# **Safety Data Sheet Type IS Cement**

# Section 1. Identification

GHS product identifier: Chemical name:	Portland slag cement Calcium compounds, calcium silicate compounds, and other calcium compounds containing iron and aluminum make up the majority of this product.
Other means of identification:	Slag cement, Portland blast-furnace slag cement, Type IS, Blended hydraulic cement, CSA Type GUb, GULb, MSb, MSLb, HEb, HELb, LHb, LHLb, HSb, HSLb
Relevant identified uses of the substance or mixture and uses advised against:	Building materials, construction, a basic ingredient in concrete.
Supplier's details:	300 E. John Carpenter Freeway, Suite 1645 Irving, TX 75062 (972) 653-5500
Emergency telephone number (24 hours):	CHEMTREC: (800) 424-9300

### **Section 2. Hazards Identification**

Overexposure to portland slag cement can cause serious, potentially irreversible skin or eye damage in the form of chemical (caustic) burns, including third degree burns. The same serious injury can occur if wet or moist skin has prolonged contact exposure to dry portland slag cement.

OSHA/HCS status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	SKIN SENSITIZATION – Category 1; H317
substance or mixture:	CARCINOGENICITY – Category 1A; H350
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 3; H335
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) – Category 1; H372
	SKIN CORROSION/IRRITATION – Category 2; H315
	SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1; H318

### **GHS** label elements

Hazard pictograms:

Signal word: Hazard statements:

Precautionary statements: Prevention:

**Response:** 

Storage:

Disposal:

Hazards not otherwise classified (HNOC):



Causes severe skin burns and eye damage May cause an allergic skin reaction May cause respiratory irritation May cause cancer

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use outdoors in a well ventilated area. Wash any exposed body parts thouroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.Contaminated clothing must not be allowed out of the workplace. If exposed or concerned: Immediately get medical advice/attention if you feel unwell or irritation or rash occurs. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cotinuously with water for several minutes. Remove contact lenses, if present and easy to do. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do not induce vomiting.

Restrict or control access to stockpile areas (store locked up). Engulfment hazard: To prevent burial or suffocation, do not enter a confined space, such as a silo, bulk truck or other storage container or vessel that stores or contains portland slag cement without an effective procedure for assuring safety. Store in a well ventilated area. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.

None known

Supplemental Information:

Respirable Crystalline Silica (RCS) may cause cancer. Repeated inhalation of respirable crystalline silica (quartz) may cause lung cancer according to IARC and NTP; ACGIH states that it is a suspected cause of cancer. Other forms of RCS (e.g., tridymite and cristobalite) may also be present or formed under certain industrial processes.

# Section 3. Composition/information on ingredients

Substance/mixture: Chemical Name: Mixture

Calcium compounds, calcium silicate compounds, and other calcium compounds containing iron and aluminum make up the majority of this product.

# CAS number/other identifiers

Ingredient name	%	CAS number
Portland Cement Slag	100%	65997-15-1
The structure may contain the following in some concentration ranges:		
Calcium oxide	0-5	1305-78-8
Quartz	0-0.1	14808-60-7
Gypsum	4-9	13397-24-5
Limestone	0-5	1317-65-3
Magnesium oxide	0-4	1309-48-4
Gypsum, limestone and magnesium oxide are not classifiable as a hazard under Title 29 <u>Code of</u>		
Federal Regulations 1910.1200.		
Hexavalent chromium*	Trace	18450-29-9
*Hexavalent chromium is included due to dermal sensitivity associated with the component.		

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

#### Description of necessary first aid measures

Eye 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 20 minutes. Chemical burns must be treated promptly by a physician.
Inhalation:	Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of portland slag cement requires immediate medical attention. Call a poison center or physician. 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 a recovery position and get medical attention immediately. Maintain an open airway.
Skin Contact:	Get medical attention immediately. Heavy exposure to portland slag cement dust, wet concrete or associated water requires prompt attention. Quickly remove contaminated clothing, shoes, and leather goods such as watchbands and belts. Quickly and gently blot or brush away excess portland slag cement. Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH natural soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet portland slag cement, portland slag cement mixtures or liquids from wet portland slag cement. Burns should be treated as caustic burns. Portland slag 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. In the event of any complaints or symptoms, avoid further exposure.
Ingestion:	Get medical attention immediately. Call a poison center or physician. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Have victim drink 60 to 240 mL (2 to 8 oz.) of water. Stop giving water if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

### Most important symptoms/effects, acute and delayed potential acute health effects

Skin contact:	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.

# **Over-exposure signs/symptoms**

Eye contact:	Adverse symptoms may include the following: pain, watering and redness
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation and coughing
Skin contact:	Adverse symptoms may include the following: pain or irritation, redness and blistering may
Ingestion:	occur, skin burns, ulceration and necrosis may occur Adverse symptoms may include the following: stomach pains

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have
	been ingested or inhaled.
Specific treatments:	Not applicable.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be
	dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash
	contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media: Unsuitable extinguishing media: Specific hazards arising from the	Use an extinguishing agent suitable for the surrounding fire. Do not use water jet or water-based fire extinguishers.
chemical:	No specific fire or explosion hazard.
Hazardous thermal decomposition	Decomposition products may include the following materials: carbon dioxide, carbon monoxide,
Products:	sulfur oxides and metal oxide/oxides
Special protective actions for fire-	Move containers from fire area if this can be done without risk. Use water spray to keep fire-
fighters:	exposed containers cool.
Special protective equipment for fire-	Fire-fighters should wear appropriate protective equipment and self-contained breathing
fighters:	apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders:	For personal protective clothing requirements, please see Section 8.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has entered the environment, including waterways, soil or air. Materials can enter waterways through drainage systems.

#### Methods and materials for containment and cleaning up

Small spill:

Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of waste material by using a licensed waste disposal contractor.

Large spill:

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or 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. Avoid creating dusty conditions and prevent wind dispersal. Large spills to waterways may be hazardous due to alkalinity of the product. Dispose of waste material using a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### **Precautions for safe handling**

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. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.

Advice on general occupational hygiene:

Conditions for safe storage, including any incompatibilities:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. A key to using the product safely requires the user to recognize that portland slag cement reacts chemically with water to produce calcium hydroxide which can cause severe chemical burns. Every attempt should be made to avoid skin and eye contact with portland slag cement. Do not get portland slag cement inside boots, shoes or gloves. Do not allow wet, saturated clothing to remain against the skin. Promptly remove clothing and shoes before reuse. Do not enter a confined space that stores or contains portland slag cement unless appropriate procedures and protection are available. Portland slag cement can build up or adhere to the walls of a confined space and then release or fall suddenly (engulfment).

#### Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Particulates not otherwise classified (CAS SEQ250)	ACGIH TLV (United States, Canada) TWA: 3 mg/m <sup>3</sup> . Form: Respirable particles TWA: 10 mg/m <sup>3</sup> . Form: Inhalable particles OSHA PEL (United States) PEL: 5 mg/m <sup>3</sup> . Form: Respirable fraction PEL: 15 mg/m <sup>3</sup> . Form: Total dust MSHA PEL (United States) PEL: 5 mg/m <sup>3</sup> . Form: Respirable fraction PEL: 10 mg/m <sup>3</sup> . Form: Total dust
Portland slag cement	ACGIH TLV (United States and Canada) TWA: 1 mg/m <sup>3</sup> . Form: Respirable dust OSHA PEL (United States) PEL: 5 mg/m <sup>3</sup> . Form: Respirable fraction PEL: 15 mg/m <sup>3</sup> . Form: Total dust MSHA PEL (United States) PEL: 5 mg/m <sup>3</sup> . Form: Respirable fraction PEL: 10 mg/m <sup>3</sup> . Form: Total dust
Calcium oxide	ACGIH TLV (United States and Canada) TWA: 2 mg/m <sup>3</sup> 8 hours OSHA/MSHA PEL (United States) TWA: 5 mg/m <sup>3</sup> 8 hours.
Limestone	ACGIH TLV (United States, Canada) TWA: 3 mg/m <sup>3</sup> . Form: Respirable particles TWA: 10 mg/m <sup>3</sup> . Form: Inhalable particles OSHA PEL (United States) PEL: 5 mg/m <sup>3</sup> . Form: Respirable fraction

Magnesium oxide	PEL: 15 mg/m <sup>3</sup> . Form: Total dust <b>MSHA PEL (United States)</b> PEL: 5 mg/m <sup>3</sup> . Form: Respirable fraction PEL: 10 mg/m <sup>3</sup> . Form: Total dust <b>ACGIH TLV (United States and Canada)</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction <b>OSHA PEL (United States)</b>	
Calcium sulfate (gypsum)	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total particulates ACGIH TLV (United States, Canada) TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction OSHA PEL Z-1 (United States) TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust	
Crystalline Silica (Quartz) (CAS 14808-60	<ul> <li>ACGIH TLV (United States) TWA: 0.025 mg/m³. Form: Respirable fraction OSHA PEL (United States) TWA: 0.05 mg/m³. Form: Respirable MSHA PEL (United States) TWA: 10/(%SiO2 + 2) in mg/m3 Provincial Exposure Limits (Canada, various) Alberta (OHS Code) 0.025 mg/m³ 8 hour TWA British Columbia (WorkSafeBC OHS Regulation) 0.025 mg/m³ 8 hour TWA British Columbia (WorkSafeBC OHS Regulation) 0.025 mg/m³ 8 hour TWA British Columbia (Health, Safety &amp; Reclamation Code, Mines Act) 0.1 mg/m³ 8 hour TWA Manitoba (Workplace Safety and Health Regulation) 0.025 mg/m³ 8 hour TWA New Brunswick 0.025 mg/m³ 8 hour TWA New Grunswick 0.025 mg/m³ 8 hour TWA Nova Scotia 0.025 mg/m³ 8 hour TWA Nova Scotia 0.025 mg/m³ 8 hour TWA Prince Edward Island 0.025 mg/m³ 8 hour TWA Quebec (Regulation Respecting OHS, Chapter S-2.1, r. 13) 0.1 mg/m³ 8 hour TWA Saskatchewan (OHS Regulations) 0.05 mg/m³ 8 hour TWA</li> </ul>	
Appropriate 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.	
Environmental exposure controls: Exposure guidelines:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. OSHA PELs, MSHA PELs, Canadian Provincial OELs, and ACGIH TLVs are 8-hr TWA values. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Terms including "Particulates Not Otherwise Classified," "Particulates Not Otherwise Regulated," Particulates Not Otherwise Specified," and "Inert or Nuisance Due" are often used interchangeably; however, the user should review each agency's terminology for differences in meanings.	

# Individual protection measures

Hygiene measures:	Clean water should always be readily available for skin and (emergency) eye washing. Periodically wash areas contacted by portland slag cement with a pH neutral soap and clean, uncontaminated water. If clothing becomes saturated with portland slag cement, garments should be removed and replaced with clean, dry clothing.
Eye/face protection:	To prevent eye contact, wear safety glasses with side shields, safety goggles or face shields when handling dust or wet portland slag cement. Wearing contact lenses when working with portland slag cement is not recommended.

# Skin protection

Hand protection:	Use impervious, waterproof, abrasion and alkali-resistant gloves. Do not rely on barrier creams in place of impervious gloves. Do not get cement inside gloves.
Body protection:	Use impervious, waterproof, abrasion and alkali-resistant boots and protective long-sleeved and long- legged clothing to protect the skin from contact with wet cement. To reduce foot and ankle exposure, wear impervious boots that are high enough to prevent cement from getting inside them. Do not get cement inside boots, shoes, or gloves. Remove clothing and protective equipment that becomes saturated with cement and immediately wash exposed areas of the body.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.
Respiratory protection:	Use properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and assigned protection factor of the selected respirator.

# Section 9. Physical and chemical properties

#### Appearance

**Physical State:** Color: Odor: Odor threshold: pH: Melting point: **Boiling point:** Flash point: Burning time: Burning rate: Evaporation Rate: Flammability (solid, gas): Solid. [Powder.] Gray or white. Odorless. Not available. >11.5 [Conc. (% w/w): 1%] Not available. >1000°C (>1832°F) Not flammable. Not combustible. Not available. Not available. Not applicable. Not applicable.

Lower and Upper explosive flammable limits Vapor pressure: Vapor density: **Relative density:** Solubility: Solubility in water: Partition coefficient: n-octanol/water:

Auto-ignition temperature: **Decomposition temperature:** SADT: Viscosity:

Not applicable. Not applicable. Not applicable. 2.3 to 3.1 Slightly soluble in water. 0.1 to 1%

Not applicable. Not applicable. Not available. Not available. Not applicable.

### Section 10. Stability and reactivity

<b>–</b> <i>– – – – – – – – – –</i>	
Reactivity:	Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete.
Chemical Stability:	The product is stable.
Possibility of hazardous reactions:	Under normal circumstances of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium salt. Portland slag cement is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Toxic gases or vapors may be given off depending on the acid involved. Reacts with acids, aluminum metals and ammonium salts. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas-silicon tetrafluoride.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity: Irritation/Corrosion:	Portland slag cement LD50/LC50 = Not available <b>Skin:</b> May cause skin irritation. May cause serious burns in the presence of moisture. <b>Eyes:</b> Causes serious eye damage. May cause burns in the presence of moisture. <b>Respiratory:</b> May cause respiratory tract irritation.
Sensitization: Mutagenicity: Carcinogenicity:	May cause sensitization due to the potential presence of trace amounts of hexavalent chromium. There are no data available.

#### Classification below:

Product/ingredient name	OSHA	IARC	ACGIH	NTP
Cement, portland, chemicals	-	-	A4	-
Crystalline Silica (Quartz) (CAS 14808-60-7)	Listed	1	A2	Known to be a human carcinogen.

#### Reproductive toxicity: Teratogenicity:

There are no data available. There are no data available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of Exposure	Target Organs
Calcium oxide	Category 3	Inhalation and skin contact	Respiratory tract irritation, skin irritation
Cement, portland, chemicals	Category 3	Inhalation and skin contact	Respiratory tract irritation, skin irritation

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of Exposure	Target Organs
Crystalline Silica (Quartz) (CAS 14808-60- 7)	Category 1	Inhalation	Respiratory tract and kidneys

Aspiration hazard:

There are no data available.

# Information on the likely routes of exposure

Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects:	Eye contact: Causes serious eye damage.
	Inhalation: May cause respiratory irritation. Skin contact: Causes severe burns. May cause an allergic skin reaction.
	Ingestion: May cause burns to mouth, throat and stomach.
Symptoms related to the	Eye contact: Adverse symptoms may include the following: pain, watering, redness.
physical, chemical and	Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing
toxicological characteristics:	<b>Skin contact:</b> Adverse symptoms may include the following: pain or irritation, redness, blistering may occur, skin burns, ulcerations and necrosis may occur
	Ingestion: Adverse symptoms may include the following: stomach pains
Delayed and immediate effects	Short term exposure
and also chronic effects from	Potential immediate effects: No known significant effects or critical hazards.
short and long term exposure:	Potential delayed effects: No known significant effects or critical hazards.
	Long term exposure
	Potential immediate effects: No known significant effects or critical hazards.
	Potential delayed effects: No known significant effects or critical hazards.
Potential chronic health effects:	General: 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.
	<b>Carcinogenicity:</b> Portland slag cement is not classifiable as a human carcinogen. 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.
	Mutagenicity: No known significant effects or critical hazards.
	Teratogenicity: No known significant effects or critical hazards.
	Developmental effects: No known significant effects or critical hazards.
Numerical management of toxicity	Fertility effects: No known significant effects or critical hazards.
Numerical measures of toxicity:	Acute toxicity estimates: There are no data available.

# Section 12. Ecological Information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Calcium oxide	Chronic NOEC 100 mg/L Fresh water	Fish-Oreochromis niloticus-Juvenile (Fledgling, Hatchling, Weanling)	46 days

Persistence and degradability:	There are no data available.
Bioaccumulative potential:	There are no data available.
Mobility in soil:	Soil/water partition coefficient (Koc): Not available.
Other adverse effects:	No known significant effects or critical hazards.

#### Section 13. Disposal considerations

**Disposal methods:** 

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.

# Section 14. Transportation information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	None	None	None
Canada TDG	-	-	-
Additional information	-	-	-

Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not available.

# Section 15. Regulatory Information

TSCA 6 final risk management: Chromium, ion (Cr6+)

United States inventory (TSCA 8b): Cements are considered to be statutory mixtures under TSCA. CAS 65997-15-1 is included on the TSCA inventory.

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

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 Canada NSNR Status – Listed on DSL or exempt

# SARA 311/312

**Classification:** 

Immediate (acute) health hazard Delayed (chronic) health hazard

#### Composition/information on ingredients

Name	%	Fire Hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Calcium oxide	0-5	No	No	No	Yes	No
Quartz	>0.1	No	No	No	No	Yes
Chromium, ion (Cr6+)	<0.1	No	No	No	Yes	Yes

# **SARA 313**

	Product name	CAS number	%
Form R-Report requirements	Chromium, ion (Cr6+)	8540-29-9	<0.1

### State regulations

Massachusetts:	Listed		
New York:	None of the components are listed.		
New Jersey:	Listed		
Pennsylvania:	Listed		

# California Prop. 65

WARNING: This product contains crystalline silica and chemicals (trace metals) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the above warning in the absence of definitive testing to prove the defined risks do not exist.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Quartz	Yes	No	No	No
Chromium, ion (Cr6+)	Yes	Yes	0.001µg/day (inhalation)	8.2 micrograms/day (ingestion)

# International regulations

International lists: Canadian Domestic Substances List (DSL): Portland cement is included on the DSL. ECC – EINECS: Listed

WHMIS Classification: D2A "Materials Causing Other Toxic Effects"



# Section 16. Other Information

Date of issue: Jan 01 2023 Replaces: Jan 01 2022 Revised Section(s):

# Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of this portland slag 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 this portland slag cement to produce portland slag cement products. Users should review other relevant material safety data sheets before working with this portland slag cement or working on related portland slag cement products.

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# 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