SAFETY DATA SHEET



1. Identification

Product identifier Price Portland Cement Other means of identification Synonyms Cament, Hydraulic Cement, Dil Well Cement, Antique White Cement, Portland Limestone Cemen Portland Cement Type I, A. (E., NII, III, A., III, A. (III, A., III, A. (III, A., III, A. (III, A. (III, A., III, A. (III, A. (
Synoryms Cement, Hydraulic Cament, Oli Well Cement, Antique While Cement, Portland Cimestone Cemen Portland Cement Type 1, 14, 11, 11, 11, 11, 11, 11, 11, 11,	Product identifier	Portland Cement		
Portland Cement Type 1, IA, IE, IJI, II, II, IIA, IIA, IIA, IIA, IIA,	Other means of identification			
Recommended restrictions Workers (and your customers or users in the case of resaile) should be informed of the potential presence of respirable dust and respirable crystalline silice as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations. Manufacturer/Importer/Supplier/Distributor information	Synonyms	Portland Cement Type I, IA, IE, I/II, II, IIA, II L, GUL, MS, MSL, HE, HEL, HS, HSL, OWH, O	.A., IIİ, IIIA, IV, IVA, V, VA, 10, 20, 30, 40, 50, GU, WG, OW Class G HSR , ONECEM®, INFINICEM®,	
presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations. Manufacturer/Importer/Supplier/Distributor information Company name Amrize Inc. Address 6509 Airport Road Mississauga, Ontario L4V 157 Telephone Eastern Canada: (960) 738-7070 Website www.amrize.com E-mail sdsinfo@gamrize.com E-mail sdsinfo@gamrize.com E-mail sdsinfo@gamrize.com E-margency telephone CHEMTREC within USA and Canada: 1+103-527-3887 (collect calls accepted) 2. Hazard identification Category 1 Physical hazards Skin corrosion/irritation Category 1 Gerious eye damage/eye irritation Category 1 Carcinogenicity (inhalation) Category 1 Carcinogenicity (inhalation) Category 1 Careard istatement Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer by inhalation. Harmful to aquatic iffe. Precention Obtain special instructions before use. Do not hendle until all safety precautions have been read and understood. Do not breathe dust. Wash throughly after hending. Contaminated work	Recommended use	Construction.		
Company name Amrize Inc. Address 6509 Airport Road Mississauga, Ontario L4V 157 Image: Company name Telephone Eastern Canada: (905) 738-7070 Western Canada: (303) 225-5400 Western Canada: (403) 225-5400 Website www.amrize.com E-mail sdsinf@garmize.com E-mail sdsinf@garmize.com E-mail cHEMTREC within USA and Canada: 1-800-424-9300 number CHEMTREC outside USA and Canada: 1-800-424-9300 number CHEMTREC outside USA and Canada: 1-800-424-9300 Physical hazards Not classified. Health hazards Skin corrosion/irrifation Category 1 Serious eye damage/eye irritation Category 1 Carcinogenicity (inhalation) Category 1 Carcinogenicity (inhalation) Category 1 Label elements Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer by inhalation. Harmful to aquatic life. Precautionary statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer by inhalation. Harmful to aquatic life. Precautionary statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer by inhalation. Harmful	Recommended restrictions	presence of respirable dust and respirable cry Appropriate training in the proper use and har	stalline silica as well as their potential hazards.	
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Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental information	None.
Other hazards	None known.

3. Composition/information on ingredients

Mixtures

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Cement, portland, chemicals		65997-15-1	80 - 100
Calcium oxide		1305-78-8	1 - 5
Quartz		14808-60-7	0.1 - 1
Composition comments	All concentrations are in percent by weight. A confidentiality or is due to batch variation. Con below reportable limits.		
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in give artificial respiration. Call a poison centre		
Skin contact	Remove contaminated clothing immediately a or poison control centre immediately. Chemic contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Cal		
Ingestion	Call a physician or poison control centre imme vomiting occurs, keep head low so that stoma		
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin dama include stinging, tearing, redness, swelling, an blindness could result. Coughing. Prolonged e	nd blurred vision. Permanent e	eye damage including
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre- immediately. While flushing, remove clothes v ambulance. Continue flushing during transpor Symptoms may be delayed.	which do not adhere to affecte	d area. Call an
General information	IF exposed or concerned: Get medical advice (show the label where possible). Ensure that involved, and take precautions to protect then	medical personnel are aware	of the material(s)
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	on dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	is will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be oxides. Carbon oxides. Magnesium oxides. S		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do s	so without risk.	
Specific methods	Use standard firefighting procedures and con-	sider the hazards of other invo	olved materials.
General fire hazards	Will burn if involved in a fire.		

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Do not breathe dust. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush with water.	
	Small Spills: Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use. Put material in suitable, covered, labelled containers. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Persons susceptible to allergic reactions should not handle this product.	
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).	
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8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values (TLV)

Components	Туре	Value	Form
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
Cement, portland, chemicals (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

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

Components	Туре	Value	Form
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
Cement, portland, chemicals (CAS 65997-15-1)	TWA	10 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.

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

Components	Туре	Value	Form
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
Cement, portland, chemicals (CAS 65997-15-1)	TWA	1 mg/m3	Respirable.
$0 = -1 = (0 \land 0 \land 1 \land 0 \land 0 \land 7)$	TWA	0.025 mg/m3	Respirable fraction.
Quartz (CAS 14808-60-7)	IWA	0.020 mg/m3	
Quartz (CAS 14808-60-7) Canada. Manitoba OELs (Reg. 21) Components		Ũ	Form
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act), as amended	·
Canada. Manitoba OELs (Reg. 21) Components Calcium oxide (CAS	7/2006, The Workplace Safety Type	And Health Act), as amended Value	·

Components	Туре	Value	Form
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
Cement, portland, chemicals (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Ontario OELs. (Co Components	ntrol of Exposure to Biological or Chei Type	nical Agents), as amended Value	Form
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
Cement, portland, chemicals (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
Canada. Quebec OELs. (Mi Components	nistry of Labor - Regulation respecting Type	occupational health and sa Value	fety) Form
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
Cement, portland, chemicals (CAS 65997-15-1)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Canada. Saskatchewan OE Components	Ls (Occupational Health and Safety Re Type	gulations, 1996, Table 21), a Value	s amended Form
Calcium oxide (CAS 1305-78-8)	15 minute	4 mg/m3	
	8 hour	2 mg/m3	
Cement, portland, chemicals (CAS 65997-15-1)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
Quartz (CAS 14808-60-7)	8 hour	0.05 mg/m3	Respirable fraction.
ogical limit values	No biological exposure limits noted for	the ingredient(s).	
osure guidelines	Occupational exposure to nuisance du should be monitored and controlled.	st (total and respirable) and re	espirable crystalline silica
ropriate engineering trols	Good general ventilation should be use applicable, use process enclosures, lo maintain airborne levels below recomm established, maintain airborne levels to shower must be available when handling	cal exhaust ventilation, or othe nended exposure limits. If expo o an acceptable level. Eye was	er engineering controls to osure limits have not beer
vidual protection measures Eye/face protection	, such as personal protective equipme Wear safety glasses with side shields (
Skin protection			
Hand protection	Wear appropriate chemical resistant gl supplier.	oves. Suitable gloves can be i	recommended by the glov
Other	Wear appropriate chemical resistant cl	othing. Use of an impervious a	apron is recommended.
Respiratory protection	If engineering controls do not maintain limits (where applicable) or to an accep been established), an approved respira protective equipment should be in acco	otable level (in countries where ator must be worn. Selection a	e exposure limits have not nd use of respiratory
Thermal hazards	Wear appropriate thermal protective cl	othing when necessary	

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

9. Physical and chemical p	noperties
Physical state	Solid.
Form	Powder.
Colour	Gray to white.
Odour	Odourless.
Odour threshold	Not applicable.
Melting point/freezing point	Property has not been measured.
Boiling point or initial boiling point and boiling range	> 1000 °C (> 1832 °F)
Flammability	Will burn if involved in a fire.
Upper/lower flammability or expl	losive limits
Explosive limit - lower (%)	Not applicable, material is a solid.
Explosive limit – upper (%)	Not applicable, material is a solid.
Flash point	Not applicable, material is a solid.
Auto-ignition temperature	Not applicable, material is a solid.
Decomposition temperature	Property has not been measured.
рН	12 - 13
pH concentration	Property has not been measured.
Kinematic viscosity	Not applicable, material is a solid.
Solubility	
Solubility (water)	Slightly soluble
Partition coefficient (n-octanol/water) (log value)	Not applicable, material is inorganic.
Vapour pressure	Property has not been measured.
Vapour pressure temp.	Property has not been measured.
Density and/or relative density	
Density	Property has not been measured.
Relative density	3.15 (Water = 1)
Relative density temperature	Property has not been measured.
Vapour density	Not applicable, material is a solid.
Particle characteristics	Property has not been measured.
Other information	
Evaporation rate	Not applicable, material is a solid.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Viscosity	Not applicable, material is a solid.
10. Stability and reactivity	
Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Acids. Ammonium salts. Aluminum metal. Oxidizing agents. Fluorine. Hydrofluorio trifluoride. Chlorine trifluoride. Oxygen difluoride. manganese trifluoride
Hazardaya dagamposition	No bazardous decomposition products are known. In the event of fire: See Section

Hazardous decomposition products

No hazardous decomposition products are known. In the event of fire: See Section 5.

Hydrofluoric acid. Boron

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause cancer by inhalation. May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing. Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity	Not expected to be acutely to	kic.
Components	Species	Test Results
Calcium oxide (CAS 1305-78-8)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg No deaths occured at this concentration.
Cement, portland, chemicals (CA	S 65997-15-1)	
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation dust/mist		
LC50	Rat	> 6.04 mg/l, 4 Hours
Oral		
LD50	Rat	> 1848 mg/kg
Quartz (CAS 14808-60-7)		
<u>Chronic</u>		
Inhalation		
LOEC	Human	0.0563 mg/m3
Skin corrosion/irritation	Causes severe skin burns.	
Serious eye damage/eye irritation	Causes serious eye damage	
Respiratory or skin sensitisatio	on	
Canada - Alberta OELs: Irri	tant	
Calcium oxide (CAS 130 Cement, portland, chem		Irritant Irritant
Respiratory sensitisation	Not a respiratory sensitiser.	
Skin sensitisation	May cause an allergic skin re	action.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	

Carcinogenicity	In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer by inhalation. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.		
ACGIH Carcinogens			
Cement, portland, chemic Quartz (CAS 14808-60-7 Canada - Alberta OELs: Car)	A4 Not classifiable as a human carcinogen. A2 Suspected human carcinogen.	
Quartz (CAS 14808-60-7		Suspected human carcinogen.	
	Canada - Manitoba OELs: carcinogenicity		
Cement, portland, chemic Quartz (CAS 14808-60-7	. ,	Not classifiable as a human carcinogen. Suspected human carcinogen.	
Canada - Quebec OELs: Ca	rcinogen category		
		Suspected carcinogenic effect in humans.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.		8	
US. National Toxicology Pro	US. National Toxicology Program (NTP) Report on Carcinogens		
Quartz (CAS 14808-60-7	,	Known To Be Human Carcinogen.	
Reproductive toxicity		o cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.		
Further information	None known.		
12. Ecological information	1		
Ecotoxicity	Harmful to aquatic life.		
Components	Species	Test Results	

lootoxiony	i lamia c				
Components		Species	Test Results		
Cement, portland, chemica	als (CAS 65997	7-15-1)			
Aquatic					
Acute					
Algae	EC50	Desmodesmus subspicatus	28.2 mg/l, 72 Hours		
	NOEC	Desmodesmus subspicatus	6.25 mg/l, 72 Hours		
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 Hours		
Chronic					
Crustacea	NOEC	Daphnia magna	50 mg/l, 21 days		
Terrestrial					
Acute					
Other	EC50	Other bacteria soil microorganism	s 743 mg/l, 3 Hours		
Persistence and degradabilit	y The produ	uct contains inorganic compounds which	are not biodegradable.		
Bioaccumulative potential	No data a	No data available.			
lobility in soil	The produ	The product is slightly soluble in water. Not expected to be mobile in soil.			
Other adverse effects	No data a	vailable.			
Portland Cement				SDS Canada	
972098 Ver	sion #: 01	Revision date: - Issu	e date: 30-May-2025	7/9	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG

100		
UN number	UN3262	
UN proper shipping name	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.	
Transport hazard class(es)		
Class	8	
Subsidiary hazard	-	
Packing group	II	
Environmental hazards	No.	
Special precautions for user	 Read safety instructions, SDS and emergency procedures before handling. 	
ΙΑΤΑ		
UN number	UN3262	
UN proper shipping name	Corrosive solid, basic, inorganic, n.o.s.	
Transport hazard class(es)		
Class	8	
Subsidiary hazard	-	
Packing group	II	
Environmental hazards	No.	
ERG Code	8L	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
IMDG		
UN number	UN3262	
UN proper shipping name	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.	
Transport hazard class(es)		
Class	8	
Subsidiary hazard	-	
Packing group	II	
Environmental hazards		
Marine pollutant	No.	
EmS	F-A, S-B	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable.	
the IBC Code		

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. Greenhouse Gases Not listed.

Precursor Control Regulation	ons	
Not regulated.		
International regulations		
Stockholm Convention		
Not applicable. Rotterdam Convention		
Not applicable. Kyoto Protocol		
Not applicable. Montreal Protocol		
Not applicable. Basel Convention		
Not applicable.		
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date	30-May-2025
Revision date	-
Version No.	01
Disclaimer	Amrize Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Revision date: -