

SAFETY DATA SHEET

1. Identification

Product identifier	Ductal Premix
Other means of identification	None.
Recommended use	Construction.
Recommended restrictions	Workers (and your customers or users in the case of resale) should be informed of the potential 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. Uses other than the recommended use.

Manufacturer/Importer/Supplier/Distributor information

Company Name	Amrize Inc.
Address	8700 W Bryn Mawr Ave, Suite 300
	Chicago, IL 60631
Telephone	(773) 372-1000
Website	www.amrize.com
E-mail	sdsinfo@amrize.com
Emergency Telephone Number	CHEMTREC within USA and Canada: 1-800-424-9300
	CHEMTREC outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Carcinogenicity (inhalation)	Category 1A
	Specific target organ toxicity, repeated exposure (inhalation)	Category 2 (Lungs)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer by inhalation. May cause damage to organs (Lungs) through prolonged or repeated exposure by inhalation. Harmful to aquatic life.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.	
Response		miting. If on skin (or hair): Take off immediately all shower. If inhaled: Remove person to fresh air and se caulously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated

clothing before reuse.

Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number %	
Quartz	14808-60-7 30 - 75	
Portland cement	65997-15-1 30 - 40	
Silica, fume	69012-64-2 < 15	
Composition comments	All concentrations are in percent by weight. Any concentration shown as a range is to protect confidentiality or is due to batch variation.	
4. First-aid measures		
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Call a physician if symptoms develop or persist.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.	
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.	
Most important symptoms/effects, acute and delayed	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.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.	
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reus	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Combustion products may include: Silic oxides.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	Water runoff can cause environmental damage.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	Will burn if involved in a fire.	
6. Accidental release meas	SURAS	

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 breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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	Prevent product from entering drains.
	Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area 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, labeled 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. Wash thoroughly after handling. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. 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).

8. Exposure controls/personal protection

Occupational exposure limits

Туре	Value	
TWA	0.05 mg/m3	
xposure Limits (PEL) for Air Type	Contaminants (29 CFR 1910.1 Value	000) Form
PEL	5 mg/m3	Respirable fraction
	15 mg/m3	Total dust.
xposure Limits (PEL) for Min	eral Dusts (29 CFR 1910.1000)
Туре	Value	Form
TWA	50 mppcf	
TWA	0.1 mg/m3	Respirable.
	2.4 mppcf	Respirable.
TWA	5 mg/m3	Respirable fraction
	15 mg/m3	Total dust.
	0.8 mg/m3	
	20 mppcf	
(TLV)		
Туре	Value	Form
TWA	1 mg/m3	Respirable fraction.
TWA	0.025 mg/m3	Respirable fraction
Life or Health (IDLH) Values,	as amended	
Туре	Value	
IDLH	5000 mg/m3	
IDLH	50 mg/m3	
IDLH	3000 mg/m3	
	Type TWA xposure Limits (PEL) for Air Type PEL TWA TWA TWA TWA TWA TWA TWA TWA TWA TWA	TWA 0.05 mg/m3 xposure Limits (PEL) for Air Contaminants (29 CFR 1910.1 PEL 5 mg/m3 xposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000 TWA 0.50 mppof TWA 0.1 mg/m3 2.4 mppof 2.4 mppof TWA 5 mg/m3 2.0 mppof 15 mg/m3 TWA 5 mg/m3 2.4 mppof 2.4 mppof TWA 5 mg/m3 2.0 mppof 2.0 mppof TWA 1 mg/m3 2.0 mppof 2.0 mppof TWA 0.025 mg/m3 Life or Health (IDLH) Values, as amended 7 walue TUP Value IDLH 5000 mg/m3

US. NIOSH: Pocket Guide to Components	o Chemical Hazards Type	Value	Form
			-
Portland cement (CAS 65997-15-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Silica, fume (CAS 69012-64-2)	TWA	6 mg/m3	
Biological limit values	No biological exposure limits noted for the i	ngredient(s).	
Exposure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.		
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
Individual protection measures	such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or go	oggles) and a face shield.	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves supplier.	. Suitable gloves can be r	ecommended by the glove
Skin protection			
Other	Wear appropriate chemical resistant clothin	g. Use of an impervious a	pron is recommended.
Respiratory protection	If engineering controls do not maintain airbo limits (where applicable) or to an acceptable been established), an approved respirator n respirators are used, a program should be i 1910.134.	e level (in countries where nust be worn. In the Unite	exposure limits have not d States of America, if
Thermal hazards	Wear appropriate thermal protective clothin	g, when necessary.	
General hygiene considerations	Observe any medical surveillance requirem measures, such as washing after handling t smoking. Routinely wash work clothing and Contaminated work clothing should not be a	he material and before ea I protective equipment to	iting, drinking, and/or remove contaminants.

9. Physical and chemical properties

	-
Appearance	
Physical state	Solid.
Form	Powder
Color	White to gray.
Odor	Odorless.
Odor threshold	Not applicable.
рН	12 - 13
pH concentration	Property has not been measured.
Melting point/freezing point	Property has not been measured.
Initial boiling point and boiling	> 1832 °F (> 1000 °C)
range	
Flash point	Not applicable, material is a solid.
Evaporation rate	Not applicable, material is a solid.
Flammability (solid, gas)	Will burn if involved in a fire.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not applicable, material is a solid.
Explosive limit - upper (%)	Not applicable, material is a solid.
Vapor pressure	Not applicable, material is a solid.
Vapor density	Not applicable, material is a solid.
Relative density	Property has not been measured.
Ductal Premix	

Relative density temperature	Property has not been measured.
Solubility(ies)	
Solubility (water)	Slightly soluble
Partition coefficient (n-octanol/water)	Not applicable for inorganic substances.
Auto-ignition temperature	Not applicable, material is a solid.
Decomposition temperature	Property has not been measured.
Viscosity	Not applicable, material is a solid.
Other information	
Density	Property has not been measured.
Explosive properties	Not explosive.
Kinematic viscosity	Not applicable, material is a solid.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	,
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

	, 5 1
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.
Incompatible materials	Acids. Powerful oxidizers. Chlorine. Fluorine. Ammonium salts. Aluminum metal. Hydrofluoric acid. Boron trifluoride. Chlorine trifluoride. Manganese trifluoride. Oxygen difluoride.
Hazardous decomposition products	No hazardous decomposition products are known. In the event of fire: See Section 5.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause cancer by inhalation. May cause irritation to the respiratory system.
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 toxic.

Components	Species	Test Results
Portland cement (CAS 65997-1	5-1)	
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 sensitization	1	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
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 crystalline silica should be monitored and controlled.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity	
Quartz (CAS 14808-60-7 Silica, fume (CAS 69012- NTP Report on Carcinogens	64-2) 3 Not classifiable as to carcinogenicity to humans.	
Quartz (CAS 14808-60-7		
	d Substances (29 CFR 1910.1001-1053)	
Quartz (CAS 14808-60-7	,	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	May cause damage to organs (Lungs) through prolonged or repeated exposure by inhalation.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.	

12. Ecological information

Ecotoxicity	Harmful to	aquatic life.		
Components		Species	Test Results	
Portland cement (CAS 6599	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 microorganisms	743 mg/l, 3 Hours	
Persistence and degradability	The produc	t contains inorganic compounds which are	not biodegradable.	
Bioaccumulative potential	No data av	ailable.		
Mobility in soil	The produc	t is slightly soluble in water. Not expected t	to be mobile in soil.	
Other adverse effects	No data av	ailable.		
Ductal Premix				SDS US

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

14. Transport information	
DOT	
UN number	UN3262
UN proper shipping name	Corrosive solid, basic, inorganic, n.o.s. (Portland cement)
Transport hazard class(es)	
Class	8
Subsidiary hazard	-
Label(s)	8
Packing group	II
Environmental hazards	
Marine pollutant	No.
	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB8, IP2, IP4, T3, TP33
Packaging exceptions	154
Packaging non bulk	212
Packaging bulk	240
ΙΑΤΑ	
UN number	UN3262
UN proper shipping name	Corrosive solid, basic, inorganic, n.o.s. (Portland cement)
Transport hazard class(es)	
Class	8
Subsidiary hazard	-
Packing group	I
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. (Portland cement)
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 Transport in bulk according to	Read safety instructions, SDS and emergency procedures before handling. Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	
15. Regulatory information	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication
	Standard, 29 CFR 1910.1200.

Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous S	ubstance List (40 CFR 3	02.4)	
Not listed.			
SARA 304 Emergency	release notification		
Not regulated.	gulated Substances (29 (CER 1910 1001-1053)	
Quartz (CAS 14808		Cancer	
	,,	lung effects immune system effects kidney effects	
Toxic Substances Control	Act (TSCA)	All components of the mixture on the TSC "active".	CA 8(b) inventory are designated
Superfund Amendments and R SARA 302 Extremely haza		86 (SARA)	
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Skin corrosion or irritat Serious eye damage o Respiratory or skin ser Carcinogenicity	r eye irritation	
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Sectio	on 112 Hazardous Air Po	llutants (HAPs) List	
Not regulated.			
	on 112(r) Accidental Rele	ase Prevention (40 CFR 68.130)	
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
US. Massachusetts RTK - S	Substance List		
Portland cement (CAS 6 Quartz (CAS 14808-60-	7)		
Silica, fume (CAS 69012 US. New Jersey Worker an		(now Act	
Portland cement (CAS 6			
Quartz (CAS 14808-60-			
Silica, fume (CAS 69012	,		
US. Pennsylvania Worker a		-Know Law	
Portland cement (CAS 6			
Quartz (CAS 14808-60- Silica, fume (CAS 69012			
US. Rhode Island RTK	2 0 1 2)		
Portland cement (CAS 6 Quartz (CAS 14808-60- Silica, fume (CAS 69012	7)		
California Proposition 65	,		
WARNING: T		ou to Quartz, which is known to the State o www.P65Warnings.ca.gov.	of California to cause cancer.
-	65 - CRT: Listed date/Ca	-	
Quartz (CAS 14808	5-00-7)	Listed: October 1, 1988	
International Inventories			_ ·
Country(s) or region	Inventory name		On inventory (yes/no)
Australia	-	Industrial Chemicals (AICIS)	Ye
Canada	Domestic Substances	List (DSL)	Ye

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	No
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, including date of preparation or last revision

Issue date	29-May-2025
Revision date	-
Version #	01
HMIS® ratings	Health: 3* Flammability: 1 Physical hazard: 0
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.