

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Company Identification

Product Name ARDEX X 7 R S1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Ardex UK Limited

Identified Use(s) Cement based adhesive.

Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Homefield Road

Haverhill

Postal code CB9 8QB

Telephone: +44 (0)1440 714939

Fax Not known.

E-mail safetydatasheets@ardex.co.uk

Office hours 8:30am-5pm, Mon-Fri (excluding bank holidays)

Supplier

Address

Company identification Ardex Building Products Ireland Limited
Address of supplier Unit 622, Phase III, Northwest Logistics Park,

Ballycoolin, Blanchardstown, Dublin

Postal code D15 VN36

Telephone: +353 1 880 9210 Fax: Not known

E-mail info@ardexbuildingproducts.ie

Office hours 8:30am-5pm, Mon-Fri (excluding bank holidays)

1.4 Emergency telephone number

Emergency Phone No. 01865 407 333 (24/7 all year)
Contact No information available.

National response centre

Address National Poisons Information Centre, Beaumont Hospital,

Dublin 9, DOV2NO, Ireland.

Emergency Phone No. +353 (0)1 809 2166 (8am-10pm, 7 days)

## SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 Skin Irrit. 2 :Causes skin irritation.

(CLP) Skin Sens. 1B :May cause an allergic skin reaction.

Eye Dam. 1 :Causes serious eye damage. STOT SE 3 :May cause respiratory irritation.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name ARDEX X 7 R S1



Hazard Pictogram(s)





Signal Word(s) Danger

Hazard Statement(s) H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage. H335: May cause respiratory irritation.

Precautionary Statement(s) P102: Keep out of reach of children.

P261: Avoid breathing dust.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P501: Dispose of contents in accordance with local, state or

national legislation.

#### 2.3 Other hazards

When the cement-based powder is mixed with water or admixture, a strongly alkaline paste is produced. Cement-based products may, until set, cause both irritant and allergic contact dermatitis. Irritant contact dermatitis is due to a combination of the wetness, alkalinity and abrasiveness of the constituent materials. Allergic contact dermatitis is caused mainly by the sensitivity of the individual's skin to hexavalent chromium salts. Corrosive. Prolonged contact causes serious eye and tissue damage.

#### 2.4 Additional Information

Contains Ordinary Portland Cement, Calcium Sulpholuminate Cement. The product contains a reducing agent to ensure that the CrVI content of the cement in the product remains below 2ppm during the defined shelf life of the product. The product is not expected to be hazardous to the environment. For full text of H/P Statements see section 16.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

Ī	HAZARDOUS	CAS No.	EC No. / REACH	%W/W Hazard Statement(s)		Hazard	
	INGREDIENT(S)		Registration No.			Pictogram(s)	
I	Quartz (SiO2)	14808-60-7	238-878-4	50-70	Not classified	None	



Ordinary Portland Cement	65997-15-1	266-043-4	Skin Sens. 1B H317 Eye Dam. 1 H318		GHS05 GHS07
				STOT SE 3 H335	
Limestone	1317-65-3	1317-65-3 215-279-6 10-		Not classified	None
Calcium	12004-14-7	234-448-5	-448-5 <5 Skin Irrit. 2 H315		GHS05
Sulfoaluminate		Skin Sens. 1 H317 Eye Dam. 1 H318 STOT SE 3 H335		GHS07	
Cement					
				STOT SE 3 H335	
Lithium carbonate	554-13-2	13-2 209-062-5 <1 Acute Tox. 4 H302		GHS07	
				Eye Irrit. 2 H319	
Sodium carbonate	497-19-8	207-838-8	<1	Eye Irrit. 2 H319	GHS07
Citric acid	77-92-9	201-069-1	<1	Eye Irrit. 2 H319	GHS07
Tin sulphate	te 7488-55-3 231-302-2		<1	Skin Irrit. 2 H315	GHS05
				Skin Sens. 1 H317	GHS08
				Eye Dam. 1 H318	GHS07
				STOT RE 2 H373	

HAZARDOUS	CAS No.	Specific Concentration Limit		M-	ATE
INGREDIENT(S)				factor	
Lithium carbonate	554-13-2				Acute Tox. 4 (H302) : 500.000
Citric acid	77-92-9	Eye Irrit. 2A	C 0.00 100.00		
Tin sulphate	7488-55-3				Acute Tox. 4 (H332) :
					1.500

Contains no non-classified vPvB substances.

Contains a non-classified substance with a Union workplace exposure limit. Cristobalite, Quartz, Tridymite, Tripoli (Silica, Crystalline), respirable dust (14808-60-7) For full text of H/P Statements see section 16.

## SECTION 4: FIRST AID MEASURES

## 4.1 Description of first aid measures

Inhalation Remove affected person to fresh air at once and keep comfortable

for breathing. Get medical attention immediately if irritation

persists.

Skin Contact Remove contaminated clothing immediately and wash it before

reuse. Wash the affected area thoroughly with soap and water.

Get medical attention if irritation persists after washing.

Eye Contact Remove contact lenses, if present and easy to do. Rinse cautiously

with water for several minutes. Continue rinsing. Get medical

attention immediately if irritation persists.

SAFETY DATA SHEET



Date of Issue: 21/02/24 Date of Revision: 21/02/24

Ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns. Allergic contact dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

If ingested, immediately call a POISON CENTRE/doctor. Treat symptomatically.

#### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including

self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Provide adequate ventilation. Avoid dust generation. Do not breathe dust. Ensure full personal protection (including respiratory protection) during removal of spillages.

**6.2 Environmental precautions** 

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

#### 6.3 Methods and material for containment and cleaning up

Sweep up spilled substance and remove to safe place. Use vacuum equipment for collecting spilt materials, where practicable. Avoid contact with skin or inhalation of spillage or dust. Dampen spillage with water. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and place in suitable waste disposal containers and seal securely. Label the containers and remove from the area as soon as possible. Flush contaminated area with plenty of water.

#### 6.4 Reference to other sections

See also section 8, 13.

## SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid breathing dust. Wash hands and exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store locked up.



Storage temperature

Ambient.

Storage life

Stable under normal conditions.

None known.

7.3 Specific end use(s)

Incompatible materials

See 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

#### 8.1.1 Occupational Exposure

#### Limits

G 15							
Occupational Exposure Limits							
SUBSTANCE.	CAS No.	LTEL (8 hr	LTEL (8 hr	STEL	STEL	Note	
		TWA ppm)	TWA mg/m³)	(ppm)	$(mg/m^3)$		
Portland Cement	65997-15-1		1			R	
Quartz, (Silica, Crystalline),	14808-60-7		0.1			BOELV	
respirable dust							
Crystalline Silica Dust	14808-60-7		0.1			CM,	
						(7.1)	
Tin, as Sn - Oxide & inorganic	7488-55-3		2			IOELV	
compounds, except tin hydride							
Calcium carbonate inhalable dust	1317-65-3		10				
Calcium carbonate respirable dust	1317-65-3		4				
Limestone total inhalable	1317-65-3		10				
Limestone respirable	1317-65-3		4				
Marble total inhalable	1317-65-3		10				
Marble respirable	1317-65-3		4				
Tin (inorganic compounds as Sn)	7488-55-3		2			IOELV,	
						(4.1)	

Region Source

EU Indicative Occupational Exposure Limit Value

Ireland Code of Practice for the Chemical Agents Regulations 2018, Ireland

Remark Notes

R Respirable Fraction - Particles of inhalable aerosols that are inhaled and are not

captured in the upper airways (nasopharyngeal and tracheobronchial regions) but penetrate to the pulmonary region containing the respiratory bronchioles, alveolar ducts and alveolar sacs are considered to comprise of the respirable fraction of the

aerosol.

BOELV Binding Occupational Exposure Limit Values are transposed from the relevant EU

Directives through a range of national legislation comprising the Safety, Health and Welfare at Work (Asbestos) Regulations 2006 (S.I. No. 386 of 2006), the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001) and the Safety, Health and Welfare at Work (Carcinogens) Regulations 2001 (S.I. No. 78 of 2001). BOELVs take account of socio-economic and technical feasibility factors as well as the factors considered when establishing IOELVs. For any chemical for which a BOELV is established at EU level, Member States must establish a corresponding

BOELV, which can be stricter but cannot exceed the Community value.



Revision: 1 - Replaces:

**BOELV** Binding Occupational Exposure Limit Values.

CM Carcinogens or Mutagens Occupational Exposure Limit Values.

(7.1)Respirable fraction.

**IOELV** Indicative Occupational Exposure Limit Values.

**IOELV** Indicative Occupational Exposure Limit Values are health based limits set under the

> Chemical Agents Directive 98/24/EC. The European Commission is advised on limits by its Scientific Committee on Occupational Exposure Limits (SCOEL). SCOEL evaluates

the scientific information available on hazardous substances and makes

recommendations for the establishment of an IOELV. IOELVs are listed in Directives, which Member States are obliged to implement by introducing national limits for the

substances.

(4.1)Existing scientific data on health effects appear to be particularly limited

#### 8.2 Exposure controls

8.2.1. Appropriate engineering Ensure adequate ventilation. A washing facility/water for eye and controls

skin cleaning purposes should be present.

## 8.2.2. Personal protection

equipment

**Eye Protection** Wear eye protection with side protection (EN166).

Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

Normally no personal respiratory protection is necessary. If ventilation is inadequate, suitable respiratory protection must be





Thermal hazards None known.

8.2.3. Environmental Exposure Avoid release to the environment.

Controls

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Physical state Solid. Colour Grey

Odour Almost odourless.

Melting point/freezing point Not known. Boiling point or initial boiling Not known.

point and boiling range

Not known. Flammability Lower and upper explosion limit Not known. Flash Point Not applicable. Auto-ignition temperature Not known.



Decomposition Temperature Not known.

pH >11.5. Kinematic Viscosity Not kn

Kinematic Viscosity

Not known.

Solubility (Water): Very slightly soluble

Solubility (Other): Not known.

Partition coefficient n- Not known.

octanol/water (log value)

Vapour pressure

Density and/or relative density
Relative vapour density
Particle characteristics

Not known.
Not known.
Dry powder

9.2 Other information

None.

## SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

**10.2 Chemical Stability** 

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Skin corrosion/irritation

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

Fire creates: carbon monoxide, carbon dioxide.

Calculation method: Causes skin irritation.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion Calculation method : Not classified.
Acute toxicity - Skin Contact Calculation method : Not classified.
Acute toxicity - Inhalation Calculation method : Not classified.

Serious eye damage/irritation Calculation method : Causes serious eye damage.
Skin sensitization data Calculation method : May cause an allergic skin reaction.

Respiratory sensitization data
Germ cell mutagenicity
Carcinogenicity
Carcinogenicity
Calculation method : Not classified.
Calculation method : Not classified.
Calculation method : Not classified.

Reproductive toxicity Calculation method : Not classified. Lactation Calculation method : Not classified.

STOT - single exposure Calculation method : May cause respiratory irritation.

Cement dust may irritate the throat and respiratory tract. Based on

available data, the classification criteria are not met.

STOT - repeated exposure Calculation method : Based on available data, the classification

criteria are not met.

There is an indication of Chronic Obstructive Pulmonary Disease (COPD). The effects are acute and due to high exposures. No chronic effects or effects at low concentration have been observed.



Aspiration hazard Calculation method : Not classified.

11.2 Information on other hazards

Not known.

#### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Toxicity - Aquatic invertebrates Low toxicity to invertebrates.

Toxicity - Fish Low toxicity to fish.

Toxicity - Algae Low toxicity to algae.

Toxicity - Sediment Not classified

Compartment

Toxicity - Terrestrial Not classified

Compartment

12.2 Persistence and degradability

After hydration, cement presents no toxicity risk.

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

Partly miscible with water.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Endocrine disrupting properties

None known.

12.7 Other adverse effects

Not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator.

Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national

legislation.

## SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.



#### 14.6 Special precautions for user

Not known

#### 14.7 Maritime transport in bulk according to IMO instruments

Not known

## SECTION 15: REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Not listed

Very High Concern for

Authorisation

REACH: ANNEX XIV list of Not listed

substances subject to

authorisation

REACH: Annex XVII Restrictions Cement, portland, chemicals (65997-15-1).

on the manufacture, placing on the market and use of certain dangerous substances, mixtures

and articles

Community Rolling Action Plan Not listed

(CoRAP)

Regulation (EU) N° 2019/1021 of Not listed

the European Parliament and of the Council on persistent organic pollutants

Regulation (EC) N° 1005/2009 on Not listed

substances that deplete the

ozone layer

Regulation (EU) N° 649/2012 of Not listed

the European Parliament and of the Council concerning the export and import of hazardous

chemicals

## **National regulations**

Other Not known.

#### 15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

#### **LEGEND**

Hazard Pictogram(s)

Hazard classification





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Skin Irrit. 2: Skin corrosion/irritation, Category 2



Skin Sens. 1B: Skin sensitization, Category 1B

Eye Dam. 1: Serious eye damage/irritation, Category 1 STOT SE 3: Specific target organ toxicity — single exposure,

Category 3

Hazard Statement(s) H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated

exposure.

Precautionary Statement(s) P102: Keep out of the reach of children

P261: Avoid breathing dust.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P501: Dispose of contents in accordance with national legislation.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of

the workplace.

P302+P352: IF ON SKIN: Wash with plenty of water.

P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P310: Immediately call a POISON CENTRE/doctor.

P312: Call a POISON CENTRE/doctor if you feel unwell.

P321: Specific treatment (see Medical Advice on this label).

P332+P313: If skin irritation occurs: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical

advice/attention.

P362+P364: Take off contaminated clothing and wash it before

reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly

closed.

P405: Store locked up.

ATE : Acute Toxicity Estimate

CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and

packaging of substances and mixtures

DNEL : Derived No Effect Level EC : European Community

EINECS: European Inventory of Existing Commercial Chemical

Substances

LTEL: Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

Acronyms



REACH: Registration, Evaluation, Authorisation and Restriction of

Chemicals

STEL : Short term exposure limit STOT : Specific Target Organ Toxicity

vPvB: very Persistent and very Bioaccumulative

Issued by: Head of R+D

Issue number: 01

Key literature references and sources for data used to compile

the SDS Disclaimers Regulation (EC) No. 1272/2008 (CLP)

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