



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

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

1.1 Product identifier	
Product Name	ARDEX X 7 R W S1
1.2 Relevant identified uses of	the substance or mixture and uses advised against
Identified Use(s)	Cement based adhesive.
Uses Advised Against	Not known.
1.3 Details of the supplier of the	ne safety data sheet
Manufacturer/Supplier	
Company Identification	Ardex UK Limited
Address	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)
1.4 Emergency telephone num	ber
Emergency Phone No.	+44 (0) 870 190 6777 (24/7 all year)
Contact	No information available.
National response centre	
Address	NHS Direct
Emergency Phone No.	+44 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GB CLP Regulation, UK SI	Skin Irrit. 2 :Causes skin irritation.
2019/720 and UK SI 2020/1567	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

Product	Name

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567 ARDEX X 7 R W S1

Hazard Pictogram(s)

Signal Word(s) Hazard Statement(s)





Danger H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H335: May cause respiratory irritation.



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Precautionary Statement(s)	 P102: Keep out of reach of children. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. 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 Sulphoaluminate 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

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / Registration number(s)	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Quartz (SiO2)	14808-60-7	238-878-4	50-70	Not classified	None
Ordinary Portland Cement	65997-15-1	266-043-4	20-30	Skin Irrit. 2 H315 Skin Sens. 1B H317 Eye Dam. 1 H318 STOT SE 3 H335	GHS05 GHS07
Calcium Sulphoaluminate Cement	65997-15-1	266-043-4	<10	Skin Irrit. 2 H315 Skin Sens. 1B H317 Eye Dam. 1 H318 STOT SE 3 H335	GHS05 GHS07
Limestone	1317-65-3	215-279-6	<10	Not classified	None



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Lithium carbonate	554-13-2	209-062-5	<1	Acute Tox. 4 H302 Eye Irrit. 2 H319	GHS07
Sodium carbonate	497-19-8	207-838-8	<1	Eye Irrit. 2 H319	GHS07
Tin sulphate	7488-55-3	231-302-2	<1	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 STOT RE 2 H373	GHS05 GHS08 GHS07

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.
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 a	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 MEASU	JRES
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	E MEASURES
6.1 Personal precautions, prote	ctive 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. Keep out of reach of children.
Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.
7.3 Specific end use(s)	

See 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr	LTEL (8 hr TWA	STEL	STEL	Note
		TWA ppm)	mg/m³)	(ppm)	(mg/m³)	
Silica, respirable crystalline	14808-60-7		0.1			(t)
(respirable fraction)						
Portland cement inhalable	65997-15-1		10			
dust						
Portland cement respirable	65997-15-1		4			
dust						
Calcium carbonate inhalable	1317-65-3		10			
dust						
Calcium carbonate respirable	1317-65-3		4			
dust						
Limestone total inhalable	1317-65-3		10			
Limestone respirable	1317-65-3		4			
Marble total inhalable	1317-65-3		10			





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Marble respirable	1317-65-3	4		
Tin compounds, inorganic	7488-55-3	2	4	
except SnH4, (as Sn)				

Region	Source
United	UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)
Kingdom	

Remark Notes

(t) Carc (where generated as a result of a work process)

8.2 Exposure controls

controls	priate engineering	Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.
	nal 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 worn. Use respiratory equipment with particle filter P2.
	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

5.1 mormation on basic physic	ai and chemical prope
Appearance	Solid.
	Colour : Off-white
Odour	Almost colourless
Odour threshold	Not known.
рН	>11.5
Melting point/freezing point	Not known.
Initial boiling point and boiling	Not known.
range	
Flash Point	Not applicable.
Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or	Not known.
explosive limits	
Vapour pressure	Not known.



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Vapour density	Not known.
Density (g/ml)	Not known.
Relative density	Not known.
Solubility(ies)	Solubility (Water) : Very slightly soluble
	Solubility (Other) : Not known.
Partition coefficient: n-	Not known.
octanol/water	
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Viscosity	Not known.
Explosive properties	Not known.
Oxidising properties	Not known.
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

 None anticipated.

 10.5 Incompatible materials

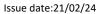
 Not known.

 10.6 Hazardous decomposition products

 Fire creates: carbon monoxide, carbon dioxide.
- SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Calculation method : Not classified.
	Calculation method : Calculated acute toxicity estimate (ATE) Calc
	ATE - 833333.31
Acute toxicity - Skin Contact	Calculation method : Not classified.
Acute toxicity - Inhalation	Calculation method : Not classified.
Skin corrosion/irritation	Calculation method : Causes skin irritation.
Serious eye damage/irritation	Calculation method : Causes serious eye damage.
Skin sensitization data	Calculation method : May cause an allergic skin reaction.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	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 : not classified. There is an indication of
	Chronic Obstructive Pulmonary Disease (COPD). The effects are





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acute and due to high exposures. No chronic effects or effects at low concentration have been observed. Calculation method : Not classified. Aspiration hazard **11.2 Other information** 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 Not classified. Toxicity - Terrestrial Compartment 12.2 Persistence and degradability After hydration, cement presents no toxicity risk. 12.3 Bioaccumulative potential Not known. 12.4 Mobility in soil Partly miscible in water. 12.5 Results of PBT and vPvB assessment Not classified as PBT or vPvB. 12.6 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	
		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

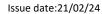
Not known

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not known

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environ mixture	mental regulations/legislation specific for the substance or
	uthorisations and/or Restrictions On Use Not listed เ
UK REACH Authorisation List (Annex XIV) list of substances subject to authorisation	Not listed
UK REACH Restrictions List (Annex XVII) Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Cement, portland, chemicals (65997-15-1), Calcium Sulphoaluminate Cement (), lithium carbonate (554-13-2), citric acid (77-92-9), sodium carbonate (497-19-8), Tin sulphate (7488- 55-3)
UK REACH Rolling Action Plan (RAP)	Not listed
The Persistent Organic Pollutant Regulations 2007 (SI 2007/3106) as amended	
The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/583)	s Not listed
The Prior Informed Consent (PIC Regulations concerning the export and import of hazardous chemicals SI2008/2108 as amended) Not listed
European Regulations - Authori Community Rolling Action Plan (CoRAP)	sations and/or Restrictions On Use Tin sulphate (7488-55-3)
15.2 Chemical Safety Assessme United Kingdom	nt A REACH chemical safety assessment has not been carried out.
	A new on enemical survey assessment has not been carried out.





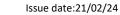


SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)	I BEE	$\langle \mathbf{t} \rangle$
	GHS05	GHS07
	GHS08: GHS: Health hazard	
Hazard classification	Acute Tox. 4 : Acute toxicity, Ca Skin Irrit. 2 : Skin corrosion/irrit Skin Sens. 1 : Skin sensitization, Skin Sens. 1B : Skin sensitizatio Eye Dam. 1 : Serious eye damag Eye Irrit. 2 : Serious eye damag STOT SE 3 : Specific target orga Category 3 STOT RE 2 : Specific target orga Category 2	tation, Category 2 , Category 1 n, Category 1B ge/irritation, Category 1 ge/irritation, Category 2
Hazard Statement(s)	H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic ski H318: Causes serious eye dama H319: Causes serious eye irrita H335: May cause respiratory ir H373: May cause damage to or exposure.	age. tion.
Precautionary Statement(s)	 P271: Use only outdoors or in a P272: Contaminated work cloth the workplace. P280: Wear protective gloves/protection/face protection. P302+P352: IF ON SKIN: Wash P304+P340: IF INHALED: Remote comfortable for breathing. P305+P351+P338: IF IN EYES: R 	me/gas/mist/vapours/spray. d skin thoroughly after handling. a well-ventilated area. hing should not be allowed out of protective clothing/eye with plenty of water. ove person to fresh air and keep Rinse cautiously with water for act lenses, if present and easy to do.
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SAFETY	DATA	SHEET



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 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. P501: Dispose of contents in accordance with local, state or national legislation. ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service 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 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
vPvB : very Persistent and very Bioaccumulative
Head of R+D
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GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567
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