Safety Data Sheet according to Regulation (EU) 2015/830 Issue date: 1/6/2017 Revision date: 6/4/2020



Version: 2.0

1.1. Product identifier	
Product form	: Mixture
Product name	: ARDEX X 78
Product code	: 18330
1.2. Relevant identified uses of the	he substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Construction materials
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: Tiling
	Installation of Natural Stones
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the	safety data sheet
Ardex UK Limited Homefield Road CB9 8QP Haverhill Suffolk T 01440 714939 - F 01440 716667 E-mail address of competent person rest	ponsible for the SDS : <u>safetydatasheets@ardex.co.uk</u>
1.4. Emergency telephone number	er
Emergency number	: +44 (0) 870 190 6777 24 hours
SECTION 2: Hazards identifica	tion
2.1. Classification of the substan	
Classification according to Regulation	ו (EC) No. 1272/2008 [CLP]
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation,	H318
Category 1 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Full text of H statements : see section 16	3
Adverse physicochemical, human hea Causes skin irritation. Causes serious ey	
2.2. Label elements	
Labelling according to Regulation (EC	S) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	

	✓ ✓	
	GHS05 GHS07	
Signal word (CLP)	: Danger	
Hazardous ingredients	: Portland cement	
Hazard statements (CLP)	 H315 - Causes skin irritation. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. 	
Precautionary statements (CLP)	 P102 - Keep out of reach of children. P280 - Wear eye protection, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. 	!
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	P261 - Avoid breathing dust.
Extra phrases	: Dispose of contents/container in accordance with regional/national/international/local regulations.
2.3. Other hazards	
Other hazards not contributing to the classification	 The product contains chromate reducer, whereby the content of water-soluble chromium (VI) less than 0.0002%. With proper storage (dry) and consumption within the specified storage time, a sensitizing effect of the cement / binder by contact with skin cannot occur (H317 or EUH203 can therefore be omitted).

vPvB: not relevant – no registration required SECTION 3: Composition/information on ingredients

3.1. Substances

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Not applicable
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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Portland cement	(CAS-No.) 65997-15-1 (EC-No.) 266-043-4	> 20	Skin Sens. 1, H317 Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3, H335
Comments : C	nromium (VI) compounds < 2 ppm		

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Do not induce vomiting.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
4.3. Indication of any immediate medica	I attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Non flammable.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: No fire hazard.
Explosion hazard	: None.
Hazardous decomposition products in case of fire	: None.
5.3. Advice for firefighters	
Precautionary measures fire	: No specific measures are necessary.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective ec	uipment and emergency procedures
General measures	: Absorb spillage to prevent material damage.
6.1.1. For non-emergency personnel	
Protective equipment	: Precautions for safe handling. See Heading 7.
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according to Regulation (EU) 2015/830	
Emergency procedures	: Avoid contact with skin and eyes.
6.1.2. For emergency responder	'S
Emergency procedures	: No specific measures are necessary.
6.2. Environmental precaution	S
Prevent entry to sewers and public wa	iters.
6.3. Methods and material for	containment and cleaning up
For containment	: Collect spillage.
Methods for cleaning up	: Mechanically recover the product. Minimise generation of dust. Collect spillage. Do not use compressed air for cleaning.
6.4. Reference to other section	15
For further information refer to section	13. See Heading 8.
SECTION 7: Handling and st	orage
7.1. Precautions for safe hand	ling
Additional hazards when processed	: See Heading 8.
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wear protective gloves. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storag	je, including any incompatibilities
Storage conditions	 Protect from moisture. Store in a dry place. The product contains chromate reducer, whereby the content of water-soluble chromium (VI) is less than 0.0002%. With proper storage (dry) and consumption within the specified storage time, a sensitizing effect of the cement / binder by contact with skin cannot occur (H317 or EUH203 can therefor be omitted).
Incompatible materials	: Aluminium.
Storage area	: dry.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure control	ols/personal protection
8.1. Control parameters	
Dertland coment (65007 45 4)	

Portland cement (65997-15-1)		
United Kingdom	Local name	Portland cement
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ 4 mg/m³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Safety glasses. Dust formation: dust mask. Gloves.

Hand protection:

Protective gloves. The following materials are suitable for protective gloves: Nitrile impregnated cotton gloves (layer thickness of about 0,15 mm).

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

If the occupational exposure limit is exceeded:



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according to Regulation (EU) 2015/830

Environmental exposure controls:

Avoid release to the environment.

Other information:

Use care during processing to minimize generation of dust. Avoid creating or spreading dust.

SECTION 9: Physical and chemical properties

Physical state Solid Appearance Powder. Colour Colour Colour Colour Odour Colour Colour Not data valiable Melting point Ensite point Ensite point Ensite point Auto-signition temperature Ensite point Colour pressure Not data valiable Platition temperature Ensite vapor density at 20 °C Partition coefficient n-octanolwater (Log Pow) Not data valiable Viscosity, dynamic Ensite valiable Viscosity, dynamic Not applicable Viscosity, dynamic Not applicable Viscosity, dynamic Not applicable Viscosity, dynamic Not applicable <th>0.4 Information on basis abusis I and a</th> <th></th>	0.4 Information on basis abusis I and a		
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No hazardous decomposition products known.	Acids. ammonium salts. Aluminium.		
	10.6. Hazardous decomposition products		
SECTION 11: Toxicological information	No hazardous decomposition products known.		
	SECTION 11: Toxicological informat	ion	

11.1. Information on toxicological	effects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation. pH: 11.5

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according to Regulation (EU) 2015/830	
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 11.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Irritation: severely irritant to eyes.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Portland cement (65997-15-1)		
LC50 fish 1	> 1000 mg/l (96 h, Pisces)	
40.0 Development of the second she illing		
12.2. Persistence and degradability		
ARDEX X 78		
Persistence and degradability	Not applicable. Inorganic Particulate Substances.	
BOD (% of ThOD)	Not applicable	
Portland cement (65997-15-1)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
12.3. Bioaccumulative potential		
ARDEX X 78		
Bioaccumulative potential	No bioaccumulation.	
Portland cement (65997-15-1)		
Bioaccumulative potential	Bioaccumulation: not applicable.	
12.4. Mobility in soil		
ARDEX X 78		
Ecology - soil	None.	
Portland cement (65997-15-1)		
Ecology - soil	No (test)data on mobility of the substance available.	
12.5. Results of PBT and vPvB assessment		
ARDEX X 78		
PBT: not relevant – no registration required		
vPvB: not relevant – no registration required		
Component		
Portland cement (65997-15-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Regional legislation (waste)	: Disposal must be done according to official regulations.		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.		
Ecology - waste materials	: Avoid release to the environment.		

Safety Data Sheet

according to Regulation (EU) 2015/830

European List of Waste (LoW) code

: 17 01 01 - concrete

10 13 14 - waste concrete and concrete sludge

For residues

01 04 07* - wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

ADR	IMDG	ΙΑΤΑ	
14.1. UN number			
Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	
No supplementary information available			

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content

: < 3 %

ARDEX X 78 Safety Data Sheet

according to Regulation (EU) 2015/830

Other information, restriction and prohibition regulations	: 1. Cement and cement-containing mixtures shall not be placed on the market, or used, if they contain, when hydrated, more than 2 mg/kg (0,0002 %) soluble chromium VI of the total dry weight of the cement.
	2. If reducing agents are used, then without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of cement or cement-containing mixtures is visibly, legibly and indelibly marked with information on the packing dat as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the linr indicated in paragraph 1.
	3. By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for, and use in, controlled closed and totally automated processes in which cement and cement-containing mixtures are handled solely by machines and in which there is no possibility of contact with the skin.
	4. The standard adopted by the European Committee for Standardization (CEN) for testing th water-soluble chromium (VI) content of cement and cement-containing mixtures shall be used as the test method for demonstrating conformity with paragraph 1.
	5. Leather articles coming into contact with the skin shall not be placed on the market where they contain chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of the leather.
	6. Articles containing leather parts coming into contact with the skin shall not be placed on the market where any of those leather parts contains chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of that leather part.
	7. Paragraphs 5 and 6 shall not apply to the placing on the market of second-hand articles which were in end-use in the Union before 1 May 2015.

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.