Safety Data Sheet according to Regulation (EU) 2015/830 Issue date: 8/22/2016 Revision date: 5/5/2021



Version: 3.0

1.1. Product identifier	
Product form	: Mixture
Product name	: ARDEX X 77 White
Product code	: 18329
1.2. Relevant identified uses of th	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: Construction materials
Use of the substance/mixture	: Tiling
Function or use category	: Construction materials
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the s	safety data sheet
Manufacturer Ardex UK Limited Homefield Road CB9 8QP Haverhill Suffolk T 01440 714939 - F 01440 716667 E mail address of competent person room	onsible for the SDS : <u>safetydatasheets@ardex.co.uk</u>
Emergency number	: +44 (0) 870 190 6777 24 hours
Classification according to Regulation Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Catego	(EC) No. 1272/2008 [CLP] H315 ory 1 H318
Classification according to Regulation Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Categor Specific target organ toxicity — Single exp Full text of H- and EUH-statements: see s Adverse physicochemical, human heal	(EC) No. 1272/2008 [CLP] H315 ory 1 H318 posure, Category 3, Respiratory tract irritation H335 section 16 H318 Ith and environmental effects H318
Classification according to Regulation Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Catego Specific target organ toxicity — Single exp Full text of H- and EUH-statements: see s Adverse physicochemical, human heal Causes skin irritation. Causes serious eye	(EC) No. 1272/2008 [CLP] H315 ory 1 H318 posure, Category 3, Respiratory tract irritation H335 section 16 H318 Ith and environmental effects H318
Classification according to Regulation Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Categor Specific target organ toxicity — Single exp Full text of H- and EUH-statements: see s Adverse physicochemical, human heal Causes skin irritation. Causes serious eye 2.2. Label elements	(EC) No. 1272/2008 [CLP] H315 ory 1 H318 posure, Category 3, Respiratory tract irritation H335 section 16 Ith and environmental effects e damage.
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Classification according to Regulation Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Categor Specific target organ toxicity — Single exp Full text of H- and EUH-statements: see s Adverse physicochemical, human heal Causes skin irritation. Causes serious eye 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients	(EC) No. 1272/2008 [CLP] H315 ory 1 H318 posure, Category 3, Respiratory tract irritation H335 section 16 Ith and environmental effects e damage.) No. 1272/2008 [CLP] Curve Constant
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Classification according to Regulation Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Categor Specific target organ toxicity — Single exp Full text of H- and EUH-statements: see s Adverse physicochemical, human heal Causes skin irritation. Causes serious eye	(EC) No. 1272/2008 [CLP] H315 ory 1 H318 posure, Category 3, Respiratory tract irritation H335 section 16 Ith and environmental effects e damage. No. 1272/2008 [CLP] V V V V V V V V

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Extra phrases	dust.Dispose of contents/container in accordance with regional/national/international/local regulations.
2.3. Other hazards	
Other hazards which do not result in classification	 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 therefore be omitted).
PBT: not relevant – no registration required	

vPvB: not relevant – no registration required

AFATIANA A		
ISECTION 3. COM	position/information	on indradiante
	position/information	on ingreaterits

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.) 65997-15-2 (EC-No.) 266-043-4	> 20	Skin Sens. 1, H317 Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3, H335
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 $\mu m]$	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (EC Index-No.) 022-006-002 (REACH-no) 01-2119489379-17	< 1	Carc. 2, H351

Comments

: Chromium (VI) compounds < 2 ppm

Full text of H- and EUH-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	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: high volume water jet.
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.

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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment 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.		
Emergency procedures	: Avoid contact with skin and eyes.		
6.1.2. For emergency responders			
Emergency procedures	: No specific measures are necessary.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters.			
6.3. Methods and material for contain	ment 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 sections			
For further information refer to section 13. See	Heading 8.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
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 storage, inclu	ding 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 therefore be omitted). 		
Incompatible materials	: Aluminium. Acids. ammonium salts.		
Storage area	: dry.		
7.3. Specific end use(s)			
No additional information available			

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)			
United Kingdom	Local name	Titanium dioxide	
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m ³ 4 mg/m ³	
Portland cement (6599	Portland cement (65997-15-2)		
United Kingdom	Local name	Portland cement	
United Kingdom	WEL TWA (OEL TWA) [1]	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:

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Wear suitable protective clothing

Respiratory protection:

If the occupational exposure limit is exceeded:



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		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Powder.	
Colour	: white.	
Odour	: odourless.	
Odour threshold	: No data available	
рН	: <11.5	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: > 1250 °C	
Freezing point	: Not applicable	
Boiling point	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: Not applicable	
Density	: 2.75 – 3.2 g/cm ³	
Solubility	: Water: 0.1 – 1.5 g/l @ 20°C	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: Not applicable	
Explosive properties	: None.	
Oxidising properties	: None.	
Explosive limits	: Not applicable	
9.2. Other information		
VOC content	: <3%	
Bulk density	: 900 – 1300 kg/m³	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. ammonium salts. Aluminium.

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10.6. Hazardous decomposition products

No hazardous decomposition products known.

11.1. Information on toxicological effects	
	: Not classified
titanium dioxide: [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
Skin corrosion/irritation	: Causes skin irritation.
	pH: < 11.5
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
ARDEX X 77 White	
Viscosity, kinematic	Not applicable
	1
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.
	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)
LC50 - Fish [1]	> 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
Portland cement (65997-15-2)	
LC50 - Fish [1]	> 1000 mg/l (96 h, Pisces)
12.2 Devoictores and degradability	
ARDEX X 77 White	Not applicable Inorgania Darticulata Substances
ARDEX X 77 White Persistence and degradability	Not applicable. Inorganic Particulate Substances.
ARDEX X 77 White Persistence and degradability BOD (% of ThOD)	Not applicable
ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)
ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing Persistence and degradability	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7) Biodegradability: not applicable.
ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing Persistence and degradability Chemical oxygen demand (COD)	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7) Biodegradability: not applicable. Not applicable (inorganic)
ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing Persistence and degradability Chemical oxygen demand (COD) ThOD	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7) Biodegradability: not applicable.
ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing Persistence and degradability Chemical oxygen demand (COD) ThOD Portland cement (65997-15-2)	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7) Biodegradability: not applicable. Not applicable (inorganic) Not applicable (inorganic)
ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing Persistence and degradability Chemical oxygen demand (COD) ThOD Portland cement (65997-15-2) Persistence and degradability	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7) Biodegradability: not applicable. Not applicable (inorganic) Not applicable (inorganic) Biodegradability: not applicable.
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ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing Persistence and degradability Chemical oxygen demand (COD) ThOD Portland cement (65997-15-2) Persistence and degradability Chemical oxygen demand (COD) ThOD BOD (% of ThOD)	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7) Biodegradability: not applicable. Not applicable (inorganic) Not applicable (inorganic) Biodegradability: not applicable. Not applicable (inorganic) Not applicable (inorganic)
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ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing Persistence and degradability Chemical oxygen demand (COD) ThOD Portland cement (65997-15-2) Persistence and degradability Chemical oxygen demand (COD) ThOD BOD (% of ThOD) 12.3. Bioaccumulative potential ARDEX X 77 White	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7) Biodegradability: not applicable. Not applicable (inorganic) Not applicable (inorganic) Biodegradability: not applicable. Not applicable
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ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing Persistence and degradability Chemical oxygen demand (COD) ThOD Portland cement (65997-15-2) Persistence and degradability Chemical oxygen demand (COD) ThOD BOD (% of ThOD) 12.3. Bioaccumulative potential ARDEX X 77 White Bioaccumulative potential titanium dioxide; [in powder form containing	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7) Biodegradability: not applicable. Not applicable (inorganic) Not applicable (inorganic) Biodegradability: not applicable. Not applicable No bioaccumulation. 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)
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ARDEX X 77 White Persistence and degradability BOD (% of ThOD) titanium dioxide; [in powder form containing Persistence and degradability Chemical oxygen demand (COD) ThOD Portland cement (65997-15-2) Persistence and degradability Chemical oxygen demand (COD) ThOD Portland cement (65997-15-2) Persistence and degradability Chemical oxygen demand (COD) ThOD BOD (% of ThOD) 12.3. Bioaccumulative potential ARDEX X 77 White Bioaccumulative potential titanium dioxide; [in powder form containing Bioaccumulative potential	Not applicable 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7) Biodegradability: not applicable. Not applicable (inorganic) Not applicable (inorganic) Biodegradability: not applicable. Not applicable No bioaccumulation. 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)

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12.4. Mobility in soil			
ARDEX X 77 White			
Ecology - soil	None.		
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)			
Surface tension	No data available in the literature		
Ecology - soil	Low potential for mobility in soil.		
Portland cement (65997-15-2)			
Ecology - soil	No (test)data on mobility of the substance available.		
12.5. Results of PBT and vPvB assessment	t de la constante d		
ARDEX X 77 White			
PBT: not relevant – no registration required			
vPvB: not relevant – no registration required			
Component			
Portland cement (65997-15-2)	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		
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	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.	
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 / IMDG / IATA

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

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable		
SECTION 15: Regulatory information	n	
	gulations/legislation specific for the substance or mixture	
15.1.1. EU-Regulations		
Contains no REACH substances with Annex XV	II restrictions	
Contains no substance on the REACH candidate		
Contains no REACH Annex XIV substances		
VOC content		
VOC content	$\sim 3\%$	
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 date, 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 limit 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 the 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.	
15.1.2. National regulations 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:

Carc. 2	Carcinogenicity, Category 2
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.
H351	Suspected of causing cancer.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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.