



Safety Data Sheet according to Regulation (EU) 2015/830 Issue date: 8/16/2016 Revision date: 11/16/2021

Supersedes version of: 2/5/2019

Version: 2.2

4.4. Dreduct identifier		
1.1. Product identifier		
Product form Product name	: Mixture : ARDEX K 11 NEW	
Product code	: 18280	
	ance or mixture and uses advised against	
1.2.1. Relevant identified uses	ance of mixture and uses advised against	
	: Professional use	
Main use category Industrial/Professional use spec	: Construction materials	
Use of the substance/mixture	: Floor Levelling Compounds	
Function or use category	: Construction materials	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety d	ata sheet	
Manufacturer		
Ardex UK Limited		
Homefield Road		
CB9 8QP Haverhill Suffolk		
T 01440 714939 - F 01440 716667		
	or the SDS : safetydatasheets@ardex.co.uk	
E-mail address of competent person responsible f	or the SDS : <u>safetydatasheets@ardex.co.uk</u>	
E-mail address of competent person responsible from <b>1.4. Emergency telephone number</b>		
E-mail address of competent person responsible f	: +44 (0) 870 190 6777	
E-mail address of competent person responsible from <b>1.4. Emergency telephone number</b>		
E-mail address of competent person responsible f <b>1.4. Emergency telephone number</b> Emergency number	: +44 (0) 870 190 6777	
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E-mail address of competent person responsible f <b>1.4. Emergency telephone number</b> Emergency number <b>SECTION 2: Hazards identification</b> <b>2.1. Classification of the substance or mit</b> <b>Classification according to Regulation (EC) No</b> Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1	: +44 (0) 870 190 6777 24 hours xture . 1272/2008 [CLP] H315 H318	
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GHS07

GHS05

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Signal word (CLP)	: Danger
Contains	: 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.
	P261 - Avoid breathing dust.
Extra phrases	: 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

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

### Not applicable

### 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
Quartz sand, grain size > 1,0 mm, without minor proportions substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4	> 20- < 40	STOT RE 2, H373
calcium hydroxide substance with a Community workplace exposure limit	CAS-No.: 1305-62-0 EC-No.: 215-137-3 REACH-no: 01-2119475151- 45	< 2	Skin Corr. 1, H314 Eye Dam. 1, H318

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 First-aid measures after skin contact	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.</li> </ul>

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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 e	ffects, 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 medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Use extinguishing media appropriate for surrounding fire.</li><li>high volume water jet.</li></ul>		
5.2. Special hazards arising from the substance or mixture			
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	: No fire hazard. : None. : None.		
5.3. Advice for firefighters			
Precautionary measures fire Protection during firefighting	<ul> <li>No specific measures are necessary.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>		

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 Section 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 containment and cleaning up	
For containment Methods for cleaning up	<ul> <li>Collect spillage.</li> <li>Mechanically recover the product. Minimise generation of dust. Collect spillage. Do not use compressed air for cleaning.</li> </ul>
6.4. Reference to other sections	

For further information refer to section 13. See Section 8.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: See Section 8.

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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, inc	cluding any incompatibilities
Storage conditions	<ul> <li>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%.</li> <li>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).</li> </ul>
Incompatible materials	: Aluminium. Acids. ammonium salts.
Storage area	: dry.
7.3. Specific end use(s)	

No additional information available

## 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Portland cement (65997-15-1)		
United Kingdom - Occupational Exposure Limits		
Local name	Portland cement	
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup> 4 mg/m <sup>3</sup>	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Quartz sand, grain size > 1,0 mm, without minor proportions (14808-60-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Silica crystaline (Quartz)	
IOEL TWA	0.1 mg/m <sup>3</sup> (Respirable fraction)	
Remark	(Year of adoption 2003) (Year of adoption 2003)	
Regulatory reference	SCOEL Recommendations SCOEL Recommendations	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	0.1 mg/m³	
calcium hydroxide (1305-62-0)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Calcium dihydroxide	
IOEL TWA	1 mg/m <sup>3</sup> (Respirable fraction)	
IOEL STEL	4 mg/m <sup>3</sup> (Respirable fraction)	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164 COMMISSION DIRECTIVE (EU) 2017/164	
United Kingdom - Occupational Exposure Limits		
Local name	Calcium hydroxide	
WEL TWA (OEL TWA) [1]	5 mg/m³ 1 mg/m³	

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calcium hydroxide (1305-62-0)			
WEL STEL (OEL STEL)	4 mg/m³		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
8.1.2. Recommended monitoring procedures	·		
No additional information available			
8.1.3. Air contaminants formed			
No additional information available			
8.1.4. DNEL and PNEC			
calcium carbonate (471-34-1)			
DNEL/DMEL (Workers)			
Long-term - local effects, inhalation	6.36 mg/m³		
DNEL/DMEL (General population)			
Acute - systemic effects, oral	6.1 mg/kg bw/day		
Long-term - systemic effects,oral	6.1 mg/kg bw/day		
Long-term - local effects, inhalation	1.06 mg/m³		
PNEC (STP)	PNEC (STP)		
PNEC sewage treatment plant	100 mg/l		
calcium hydroxide (1305-62-0)			
DNEL/DMEL (Workers)			
Acute - local effects, inhalation	4 mg/m³		
Long-term - local effects, inhalation	1 mg/m³		
DNEL/DMEL (General population)	·		
Acute - local effects, inhalation	4 mg/m <sup>3</sup>		
Long-term - local effects, inhalation	1 mg/m³		
PNEC (Water)			
PNEC aqua (freshwater)	0.49 mg/l		
PNEC aqua (marine water)	0.32 mg/l		
PNEC (Soil)			
PNEC soil	1080 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	3 mg/l		

## 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

## 8.2.2. Personal protection equipment

#### Personal protective equipment:

Safety glasses. Dust formation: dust mask. Gloves.

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### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection: Wear closed safety glasses

### 8.2.2.2. Skin protection

Skin and body protection: Wear proper protective equipment

### Hand protection:

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

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
			0,15		

## 8.2.2.3. Respiratory protection

#### Respiratory protection:

If the occupational exposure limit is exceeded:

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

### 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	: Grey.
Odour	: odourless.
Odour threshold	: No data available
рН	: 11.5 Aqueous solution
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 <sup>3</sup>
Solubility	: Water: 0.1 – 1.5 g/l @ 20°C
Partition coefficient n-octanol/water (Log Pow)	: No data available

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Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Explosive limits	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>None.</li> <li>None.</li> <li>Not applicable</li> </ul>
9.2. Other information	
VOC content Bulk density	: <3 % : 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.

## 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

11.1 Information on toxicological effe	cts
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
calcium hydroxide (1305-62-0)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2500 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 6.04 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 15 day(s))
Skin corrosion/irritation	: Causes skin irritation. pH: 11.5 Aqueous solution
Serious eye damage/irritation	: Causes serious eye damage. pH: 11.5 Aqueous solution
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.

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Portland cement (65997-15-1)		
STOT-single exposure May cause respiratory irritation.		
STOT-repeated exposure	: Not classified	
Quartz sand, grain size > 1,0 mm, without minor proportions (14808-60-7)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure (if inhaled).	
Aspiration hazard	: Not classified	
ARDEX K 11 NEW		
Viscosity, kinematic	Not applicable	
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. : Not classified Hazardous to the aquatic environment, short-term (acute) : Not classified Hazardous to the aquatic environment, long-term (chronic) Portland cement (65997-15-1) LC50 - Fish [1] > 1000 mg/l (96 h, Pisces) calcium hydroxide (1305-62-0) LC50 - Fish [1] 50.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal) 49.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, EC50 - Crustacea [1] Static system, Fresh water, Experimental value, Locomotor effect) EC50 72h - Algae [1] 184.57 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

## 12.2. Persistence and degradability

ARDEX K 11 NEW		
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 (inorganic)	
ThOD	Not applicable (inorganic)	
BOD (% of ThOD)	Not applicable	
Quartz sand, grain size > 1,0 mm, without minor proportions (14808-60-7)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	

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calcium hydroxide (1305-62-0)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
12.3. Bioaccumulative potential	
ARDEX K 11 NEW	
Bioaccumulative potential	No bioaccumulation.
Portland cement (65997-15-1)	
Bioaccumulative potential	No bioaccumulation data available.
Quartz sand, grain size > 1,0 mm, without m	ninor proportions (14808-60-7)
Bioaccumulative potential	No bioaccumulation data available.
calcium hydroxide (1305-62-0)	
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
ARDEX K 11 NEW	
Ecology - soil	None.
Portland cement (65997-15-1)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.
Quartz sand, grain size > 1,0 mm, without n	ninor proportions (14808-60-7)
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
calcium hydroxide (1305-62-0)	
Surface tension	72 mN/m (20 °C, 0.1 %, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	Adsorbs into the soil.
12.5. Results of PBT and vPvB assessment	
ARDEX K 11 NEW	
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
Quarte a serie size + 1 Quarte with t	

12.6. Other adverse effects

No additional information available

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## 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	IATA
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	able

## 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

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Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals. Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer. Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors. VOC content · < 3 % Other information, restriction and prohibition 1. Cement and cement-containing mixtures shall not be placed on the market, or used, if regulations 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 cementcontaining 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.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

### 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:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317 May cause an allergic skin reaction.	

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Full text of H- and EUH-statements:		
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
Skin Corr. 1	Skin corrosion/irritation, Category 1	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity - Single exposure, Category 3, Respiratory tract 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.