

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Flowrend LW Hardener

Revision 1
Revision date 2016-10-13

	Revision date 2010-10-13		
SECTION 1: Identification of	of the substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	Flowrend LW Hardener		
1.2. Relevant identified uses of	f the substance or mixture and uses advised against		
Description	Restricted to professional users. Component of a Three Pack Epoxy Coving Render.		
1.3. Details of the supplier of the	he safety data sheet		
Company	Virtus Resins		
Address	The Shippon, Faenol Pentrecelyn Ruthin LL15 2SP		
Web	www.epoxyresinsuppliers.co.uk		
Telephone	+44 (0)1978 790 744		
Fax			
Email	info@epoxyresinsuppliers.co.uk		
Email address of the competent person	info@ epoxyresinsuppliers.co.uk		
1.4. Emergency telephone number			
Emergency telephone number	+44 (0)1978 790 744		
	8.30am to 5.00pm Mon - Fri		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification -	C; R34 Xn; R20/22 Xi; R43
1999/45/EC	Symbols: C: Corrosive.
Main hazards	Harmful by inhalation and if swallowed. Causes burns. May cause sensitisation by skin contact.
2.1.2. Classification - EC	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Acute Tox. 4: H332; Aquatic
1272/2008	Chronic 4: H413;

2.2. Label elements

Hazard	pict	ogram	IS





Signal	Word	
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Hazard Statement

Danger

Acute Tox. 4: H302 - Harmful if swallowed.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.



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2.2. Label elements

Precautionary Statement:	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 - Wash thoroughly after handling.
	P270 - Do no eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement:	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.
Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P310 -Immediately call a POISON CENTER/doctor/ .
	P312 - Call a POISON CENTER/doctor/ /if you feel unwell.
	P321 - Specific treatment (see on this label).
	P330 - Rinse mouth.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P363 - Wash contaminated clothing before reuse.
Precautionary Statement:	P405 - Store locked up.
Storage	
Precautionary Statement:	P501 - Dispose of contents/container to local and national regulations
Disposal	
2.3. Other hazards	

2.3. Other hazards

Other hazards	No data available.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. Classification (%w/w)	M-factor.
Benzyl alcohol	603-057-00-5	100-51-6	202-859-9	01-2119492630-38	30 - 40% Xn; R20/22	
				01-2119492630-38		
3-Aminomethyl-3,5,5-trimethylcyclo	612-067-00-9	2855-13-2	220-666-8	01-2119965165-33	10 - 20% Xn; R21/22 C; R34 R43	
hexylamine				01-2119965165-33	R52/53	
Benzene-1,3-dimethanamine		1477-55-0	216-032-5	01-2119480150-50	1 - 10% C; R35 Xn; R20/22	
Salicylic Acid		69-72-7	200-712-3	01-2119486984-17	1 - 10%	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Benzyl alcohol	603-057-00-5	100-51-6	202-859-9	01-2119492630-38 01-2119492630-38		Acute Tox. 4: H332; Acute Tox. 4: H302;	
3-Aminomethyl-3,5,5-trimethylcyclo hexylamine	612-067-00-9	2855-13-2	220-666-8	01-2119965165-33 01-2119965165-33	,	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412;	

Further information

If REACH registration numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration, or the registration date has not yet come due. Refer to section 16 for full text of each relevant R-phrase and H-phrase.

SECTION 4: First aid measures



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4.1. Description of first aid measures

4.1. Description of first aid me	asures
Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	In the event of skin contact, wipe off mechanically and wash affected areas thoroughly with soap
	and water.
Ingestion	Drink copious amounts of water and provide fresh air. Instantly call for doctor.
4.2. Most important symptoms	s and effects, both acute and delayed
Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
Ingestion	Immediate medical attention is required.
4.3. Indication of any immedia	te medical attention and special treatment needed
Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Seek medical attention if irritation or symptoms persist.
SECTION 5: Firefighting m	easures
5.1. Extinguishing media	
	Carbon dioxide (CO2). Extinguishing media. Water jet.
5.2. Special hazards arising from	om the substance or mixture
	Formation of toxic gases is possible during heating or in case of fire.
5.3. Advice for firefighters	•
	Special protective equipment.
	Wear self-contained breathing apparatus and chemical-protective clothing.
SECTION 6: Accidental rele	ease measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
	Wear suitable protective clothing.
6.2. Environmental precaution	s s
	Do not allow runoff water to enter sewers or drains. Do not let product contaminate subsoil.
6.3. Methods and material for	containment and cleaning up
	Sand.
6.4. Reference to other section	ns
	Information regarding exposure controls/personal protection and disposal
	considerations can be found in section 8 and 13.
SECTION 7: Handling and	storage
7.1. Precautions for safe hand	ling
	The identified uses for this product are detailed in Section 1.2.
7.2. Conditions for safe storage	ge, including any incompatibilities
	Store in original container.
7.3. Specific end use(s)	<u>-</u>
	The identified uses for this product are detailed in section 1.2.
SECTION 8: Exposure con	trols/personal protection
8.1. Control parameters	

Are listed on the following items according to where it is going to be used.

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8.2. Exposure controls



8.2.1. Appropriate engineering

controls

Eye / face protection

Skin protection - Hand protection

Skin protection - Other

Ensure adequate ventilation of the working area.

safety glasses with side-shields.

Wear suitable gloves.

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid Yellowish Colour **Odour Amine** Flash point 100 Evaporation rate No data available Flammability (solid, gas) No data available Vapour pressure No data available Vapour density No data available Relative density No data available Fat Solubility No data available Partition coefficient No data available Autoignition temperature No data available Viscosity No data available Explosive properties No data available Oxidising properties No data available Melting point No data available Freezing Point No data available Initial boiling point No data available

9.2. Other information

Conductivity

Surface tension

Benzene Content

Lead content

VOC (Volatile organic compounds)

Gas group

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

Solubility No data available

10.2. Chemical stability

This product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No data is available on this product.



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10.4. Conditions to avoid	
	No decomposition if used according to specifications.
10.5. Incompatible materials	
	Strong oxidising agents.
10.6. Hazardous decomposition	n products
	No data is available on this product.
SECTION 11: Toxicological	information
11.1. Information on toxicologi	cal effects
Acute toxicity	No data is available on this product.
Skin corrosion/irritation	No data is available on this product.
Serious eye damage/irritation	No data is available on this product.
Respiratory or skin sensitisation	No data is available on this product.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
SECTION 12: Ecological inf	ormation
12.2. Persistence and degradal	bility
	No data is available on this product.
12.3. Bioaccumulative potentia	I
	No data is available on this product.
Partition coefficient	
	Flowrend LW Hardener No data available
12.4. Mobility in soil	
	No data is available on this product.
12.5. Results of PBT and vPvB	·
	No data is available on this product.
12.6. Other adverse effects	
	No data is available on this product.
SECTION 13: Disposal cons	siderations
13.1. Waste treatment methods	
	This product, when being disposed of in its unused and uncontaminated state should be treated
	as a hazardous waste according to EC Directive 91/869/EEC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing
	hazardous waste. For used, contaminated and residue materials additional evaluations may be
	required. Do not dump into any sewers, on the ground, or into any body of water.
Further information	
	Further information on waste can be obtained from the document "Guidance on the
	Classification and Assessment of Waste, Technical guidance WM3.
SECTION 14: Transport info	ormation
Hazard pictograms	



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Hazard pictograms	
14.1. UN number	
	UN2735
14.2. UN proper shipping name	9
	AMINES, LIQUID, CORROSIVE N.O.S. (Contains isophoronediamine
	and 1,3-benzenedimathanamine)
14.3. Transport hazard class(e	s)
ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA Subsidiary risk	8
	<u> </u>
14.4. Packing group	I
Packing group	
14.5. Environmental hazards	T
Environmental hazards	No
Marine pollutant	No
14.6. Special precautions for u	
11 = = 11 1 11 11	Use in conjuction with Manufacturers recommended guidelines.
14.7. Transport in bulk accord	ing to Annex II of MARPOL 73/78 and the IBC Code
	No data available.
ADR/RID	
Hazard ID	80
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-B
IATA	
Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction	852
(Passenger) Maximum quantity	5 L
SECTION 15: Regulatory in	

SECTION 15: Regulatory information

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

"COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC".

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

"REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC".

15.2. Chemical safety assessment

For advice on essential measures see sections 7 and 8 of this safety data sheet.

SECTION 16: Other information

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Other information	
Revision	This document differs from the previous version in the following areas:.
	2 - 2.1.2. Classification - EC 1272/2008.
	2 - Precautionary Statement: Prevention.
	2 - Precautionary Statement: Disposal.
	3 - Further information.
	7 - 7.3. Specific end use(s).
	12 - 12.1. Toxicity.
	13 - Further information.
Text of risk phrases in Section	R20/22 - Harmful by inhalation and if swallowed.
3	R20 - Harmful by inhalation.
	R21/22 - Harmful in contact with skin and if swallowed.
	R22 - Harmful if swallowed.
	R34 - Causes burns.
	R41 - Risk of serious damage to eyes.
	R43 - May cause sensitisation by skin contact.
	R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
Text of Hazard Statements in	Acute Tox. 4: H302 - Harmful if swallowed.
Section 3	Acute Tox. 4: H332 - Harmful if inhaled.
	Acute Tox. 4: H312 - Harmful in contact with skin.
	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
	Skin Sens. 1: H317 - May cause an allergic skin reaction.
	Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
General information	
	This information is correct to the best of our knowledge and belief at the date of publication
	however no guarantee is made to its accuracy.
Further information	
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use,
	storage and handling of the product. This information is correct to the best of our knowledge and
	belief at the date of publication however no guarantee is made to its accuracy. This information
	relates only to the specific material designated and may not be valid for such material used in
	combination with any other materials or in any other process.