

according to 1907/2006/EC, Article 31

Flowdur Primer Hardener

Revision 2

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Revision date 2015-05-28

	Revision date 2015-05-28
SECTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Flowdur Primer Hardener
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Description	Restricted to professional users. Component of a Two Pack Polyurethane Floor Primer.
1.3. Details of the supplier of	
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	info@ epoxyresinsuppliers.co.uk
competent person	
1.4. Emergency telephone nu	mber
Emergency telephone	+44 (0)1978 790744
number	
	8.30am to 5.00pm Mon - Fri
SECTION 2: Hazards ident	ification
2.1. Classification of the subs	stance or mixture
2.1.1. Classification -	Xn; R20-40-42/43-48/20 Xi; R36/37/38
1999/45/EC	Symbols: Xn: Harmful.
Main hazards	Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. May cause sensitisation by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
2.1.2. Classification - EC	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; Acute Tox. 4: H332; Resp. Sens. 1:
1272/2008	H334; STOT SE 3: H335; Carc. 2: H351; STOT RE 2: H373;
2.2. Label elements	
Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation.
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virtusresins epoxy resin suppliers



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2.2. Label elements	
	Skin Sens. 1: H317 - May cause an allergic skin reaction.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
	Acute Tox. 4: H332 - Harmful if inhaled.
	Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	STOT SE 3: H335 - May cause respiratory irritation.
	Carc. 2: H351 - Suspected of causing cancer .
	STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .
Precautionary Statement:	P201 - Obtain special instructions before use.
Prevention	P202 - Do not handle until all safety precautions have been read and understood.
	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 - Wash thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P284 - [In case of inadequate ventilation] wear respiratory protection.
Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
Response	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.
	P308+P313 - IF exposed or concerned: Get medical advice/attention.
	P312 - Call a POISON CENTER/doctor/ /if you feel unwell.
	P314 - Get medical advice/attention if you feel unwell.
	P321 - Specific treatment (see 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.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/.
Precautionary Statement:	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
Storage	P405 - Store locked up.
Precautionary Statement:	P501 - Dispose of contents/container to
Disposal	
2.3. Other hazards	
Other hazards	According to Regulation (EC) No 1272/2008 (CLP)
	No specific dangers known, if the regulations/notes for storage and handling are considered.

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.
Methylenediphenyl diisocyanate	615-005-00-9	26447-40-5	247-714-0		70 - 80% Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38	
4,4'-Diphenylmethane-diisocyanate	615-005-00-9	9016-87-9			R42/43 10 - 20%	

3.2. Mixtures

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						H332; STOT RE 2: H373;	
						Eye Irrit. 2: H319; STOT SE	
						3: H335; Skin Irrit. 2: H315;	
						Resp. Sens. 1: H334; Skin	
						Sens. 1: H317;	
4,4'-Diphenylmethane-diisocyanate	615-005-00-9	9016-87-9					

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Keep patient calm, remove to fresh air, seek medical attention.	
Eye contact	Immediately wash affected eyes for at least 15 minutes under running water with eyelids help open, consult an eye specialist.	
Skin contact	After contact with skin, wash immediately with plenty of water and soap.	
Ingestion	Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.	
4.2. Most important symptoms and effects, both acute and delayed		
Eve contact		

Eye contact	Irritating to eyes.	
Skin contact	Irritating to skin.	
4.3. Indication of any immediate medical attention and special treatment needed		
	Treatment:- Treat according to symptoms (decontamination, vital functions), no known	

specific antidote, administer corticosteroid dose aerosol to prevent pulmonary odema.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Dry powder, carbon dioxide, alcohol-resistant foam, water spray.	
5.2. Special hazards arising from the substance or mixture		
	Carbon dioxide, carbon monoxide, hydrogen cyanide, hydrocyanic acid, nitorgen oxides, isocyanate. The substance/groups of substances mentioned can be released in case of fire.	
5.3. Advice for firefighters		
	Special protective equipment. Wear self-contained breathing apparatus and chemical-protective clothing.	
Further information		
	Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.	

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if
exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not empty into drains. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

For large amounts:- Pump off product. For residues;- Pick up with absorbent material (e.g sand, sawdust, general purpose binder).
Dispose of absorbed material in accordance with regulations.
Neutralize with a solution of 5-10% Sodium carbonate, 0.2-2 % detergents and 90-95 % water.



6.4. Reference to other sections

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	lling
7.2. Conditions for onfo store	Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when seal gastight. Protect against moisture. Products freshly manufactured from isocyanates can contain incompletely reacted isocyanates and other dangerous substances. Clean up contamination as soon as they occur. Provide basic employee training to prevent/minimize exposures.
7.2. Conditions for safe storage	ge, including any incompatibilities
	Keep away from water. Segregate from foods and animal feeds. Segregate from acids and bases.
	Suitable materials for containers; carbon steel (iron), High density polyethylene
	(HDPE), Low density polyethylene (LDPE), tin (tinplate), Stainless steel 1 4301 (V2).
	Unsuitable materials for containers;- paper, board.
	Further information on storage containers; Keep container tightly closed in cool, well-ventilated place.
	Protect against moisture. Formation of CO2 and build up of pressure possible. Danger of bursting
	when sealed gastight. Information concerning the compliance to the Packaging (Essential
	Requirements) Regulations 1998 and their amendments may be obtained from the manufacturer.
7.3. Specific end use(s)	

For the relevant identified use(s) listed in Section 1 the advice mentioned in this secrtion 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

8.2. Exposure controls

8.2. Exposure controls	
Eye / face protection	safety glasses with side-shields.
Skin protection - Handprotection	Chemical resistant gloves.
Skin protection - Other	Wear suitable protective clothing.
SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and chemical properties	



9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Yellowish
Odour	Earthy, musty
pH	Not applicable.
Melting point	No data available
Freezing Point	No data available
Initial boiling point	> 200
Flash point	200
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
Solubility	No data available

9.2. Other information

Conductivity	No data available	
Surface tension	No data available	
Gas group	No data available	
Benzene Content	Not applicable.	
Lead content	Not applicable.	
VOC (Volatile organi		
compounds		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
	No hazardous reactions if stored and handled as prescribed/indicated.	
10.2. Chemical stability		
This product is stable if stored and handled as prescribed/indicated.		

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	I his product is stable if stored and handled as prescribed/indicated.
10.3. Possibility of hazardous	reactions
	Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with
	substances which contain active hydrogen.
10.4. Conditions to avoid	
	Temperature < 15o C.
10.5. Incompatible materials	
	Acids, alcohols, amines, water, Alkalines.
10.6. Hazardous decompositi	on products
	No hazardous decomposition products if stored and handled as prescribed/indicated.
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity	No data is available on this product.
Skin corrosion/irritation	Sensitization.

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Serious eye damage/irritation Causes serious eye irritation.



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11.1. Information on toxicolog	jical effects
Respiratory or skin sensitisation	May cause sensitisation by inhalation.
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.
11.1.4. Toxicological Information	n
	No data available
SECTION 12: Ecological in	formation
12.1. Toxicity	
	No data available
12.2. Persistence and degrada	ability
	No data is available on this product.
12.3. Bioaccumulative potenti	ial
	No data is available on this product.
Partition coefficient	
	Flowdur Primer Hardener No data available
12.4. Mobility in soil	
	No data is available on this product.
12.5. Results of PBT and vPvl	
	No data is available on this product.
12.6. Other adverse effects	
	No data is available on this product.
SECTION 13: Disposal con	
13.1. Waste treatment method	
	Completely empty the packaging and process it according to local legislation.
SECTION 14: Transport inf	ormation
14.6. Special precautions for	user
	The product is not classified as dangerous for carriage.
14.7. Transport in bulk accord	ding to Annex II of MARPOL 73/78 and the IBC Code
	The product is not classified as dangerous for carriage.
ADR/RID	
	The product is not classified as dangerous for carriage.
IMDG	
	The product is not classified as dangerous for carriage.
ΙΑΤΑ	
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory in	Iformation
	onmental 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

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

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".

"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

Other information

Revision	This document differs from the previous version in the following areas:. 1 - Description.
Text of risk phrases in	R20 - Harmful by inhalation.
Section 3	R36/37/38 - Irritating to eyes, respiratory system and skin.
	R40 - Limited evidence of a carcinogenic effect.
	R42/43 - May cause sensitisation by inhalation and skin contact.
	R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Text of Hazard Statements in	Skin Irrit. 2: H315 - Causes skin irritation.
Section 3	Skin Sens. 1: H317 - May cause an allergic skin reaction.
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	STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .
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.

