

# **SAFETY DATA SHEET**

according to 1907/2006/EC, Article 31

Page 1/7

### Flowdur MD Hardener

Revision 2 Revision date 2015-07-17

	Revision date 2015-07-17				
SECTION 1: Identification	SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1. Product identifier	1.1. Product identifier				
Product name	Flowdur MD Hardener				
1.2. Relevant identified uses of	of the substance or mixture and uses advised against				
Description	Restricted to professional users. Component of a Three Pack Polyurethane Floor Topping.				
1.3. Details of the supplier of t	the 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	info@ epoxyresinsuppliers.co.uk				
competent person	<u> </u>				
1.4. Emergency telephone nur	mber				
Emergency telephone	+44 (0)1978 790744				
number	8 30am to 5 00pm Mon - Fri				

Emergency telephone	+44 (0)1978 790744
number	8.30am to 5.00pm Mon - Fri

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance 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**





Signai	wor	a	
Hazard	Sta	tem	er

Skin Irrit. 2: H315 - Causes skin irritation.

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

Revision 2 Revision date 2015-07-17

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: Prevention P201 - Obtain special instructions before use. 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. P284 - [In case of inadequate ventilation] wear respiratory protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P304-P345 - 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. P324-P313 - If skin irritation occurs: Get medical advice/attention. P334-P313 - If skin irritation occurs: Get medical advice/attention. P334-P313 - If eye irritation persists: Get medical advice/attention. P342-P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ . P403-P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.	2.2. Label elements	
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Precautionary Statement: Storage Precautionary Statement: Disposal  P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to		
Precautionary Statement: Storage Precautionary Statement: Disposal  P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to  2.3. Other hazards		· · · · · · · · · · · · · · · · · · ·
Storage P405 - Store locked up.  Precautionary Statement: Disposal  2.3. Other hazards	Procautionary Statement	
Precautionary Statement: Disposal  2.3. Other hazards	·	·
Disposal  2.3. Other hazards	J	·
	_	. St. Dispose of contents/contained to
Other hazards According to Regulation (EC) No 1272/2008 (CLP)	2.3. Other hazards	
	Other hazards	According to Regulation (EC) No 1272/2008 (CLP)

# 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. (%w/w)	Classification	M-factor.
4,4'-Methylenediphenyl	615-005-00-9	101-68-8	202-966-0		60 - 70%	Carc. Cat. 3; R40 Xn;	
diisocyanate						R20-48/20 Xi; R36/37/38	
						R42/43	
4,4'-Diphenylmethane-diisocyanate	615-005-00-9	9016-87-9			20 - 30%		

No specific dangers known, if the regulations/notes for storage and handling are considered.

### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
4,4'-Methylenediphenyl	615-005-00-9	101-68-8	202-966-0		60 - 70%	Carc. 2: H351; Acute Tox. 4:	
diisocyanate						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			20 - 30%		



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SECTION 4: First aid me	asures
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 sympto	ms and effects, both acute and delayed
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
4.3. Indication of any imme	diate 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 oedema.
SECTION 5: Firefighting	measures
5.1. Extinguishing media	
	Dry powder, carbon dioxide, alcohol-resistant foam, water spray.
E 2 Special bazarda ariaina	
5.2. Special nazards arising	from the substance or mixture
	Carbon dioxide, carbon monoxide, hydrogen cyanide, hydrocyanic acid, nitrogen oxides, isocyanate.
	The substance/groups of substances mentioned can be released in case of fire.
5.3. Advice for firefighters	
<u> </u>	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 precaut	ions
	Do not empty into drains. Do not discharge into the subsoil/soil.
6.3. Methods and material f	or 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 sec	
6.4. Reference to other sec	
	Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.
SECTION 7: Handling and	
SECTION 7: Handling ar	<del>-</del>
7.1. Precautions for safe ha	
	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

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#### 7.1. Precautions for safe handling

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, 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.

#### 8.1.1. Exposure Limit Values

4,4'-Diphenylmethane-diisocyan ate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.02
ale	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 0.07
	WEL 8-hr limit mg/m3 total	WEL 15 min limit mg/m3 total
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total	WEL 15 min limit mg/m3 total
	respirable dust:	respirable dust:
4,4'-Methylenediphenyl	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.02
diisocyanate		
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 0.07
	WEL 8-hr limit mg/m3 total	WEL 15 min limit mg/m3 total
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total	WEL 15 min limit mg/m3 total
	respirable dust:	respirable dust:

#### 8.2. Exposure controls



Eye / face protection

Skin protection - Hand protection

Skin protection - Other

safety glasses with side-shields.

Chemical resistant gloves.

Wear suitable protective clothing.

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



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#### 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 organic	No data available
compounds)	

#### SECTION 10: Stability and reactivity

#### 10.1. 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.
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 decomposition	n 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.
Acute toxicity	No data is available on this product.

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11.1. Information on toxicologi	cal effects		
Skin corrosion/irritation	Sensitization.		
Serious eye damage/irritation	Causes serious eye irritation.		
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	on		
	No data available		
SECTION 12: Ecological inf	formation		
12.1. Toxicity			
	No data available		
12.2. Persistence and degrada	-		
	No data is available on this product.		
12.3. Bioaccumulative potentia	al		
	No data is available on this product		
Doublion or officient	No data is available on this product.		
Partition coefficient			
	Flowdur MD Hardener No data available		
12.4. Mobility in soil			
	No data is available on this product.		
12.5. Results of PBT and vPvB	assessment		
	No data is available on this product.		
12.6. Other adverse effects			
	No data is available on this product.		
SECTION 13: Disposal con	siderations		
13.1. Waste treatment methods	S		
	Completely empty the packaging and process it according to local legislation.		
SECTION 14: Transport information			
14.1. UN number			
	The product is not classified as dangerous for carriage.		
14.2. UN proper shipping name	•		
	The product is not classified as dangerous for carriage.		
14.3. Transport hazard class(e	s)		
	The product is not classified as dangerous for carriage.		
14.4. Packing group			
	The product is not classified as dangerous for carriage.		
14.5. Environmental hazards			
	The product is not classified as dangerous for carriage.		
14.6. Special precautions for u	ser		



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	The product is not classified as dangerous for carriage.	
	The product is not classified as dangerous for carriage.	
4.7. Transport in I	bulk according to Annex II of MARPOL 73/78 and the IBC Code	
	The product is not classified as dangerous for carriage.	
	The product is not classified as dangerous for carriage.	

#### **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".

"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 in	form	ation
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Revision	This document differs from the previous version in the following areas:. 12 - 12.1. Toxicity.	
Text of risk phrases in Section	tion R20 - Harmful by inhalation.	
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.	
<b>Text of Hazard Statements in</b>	Skin Irrit. 2: H315 - Causes skin irritation.	
Section 3	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 .	
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.	

