

# **SAFETY DATA SHEET**

according to 1907/2006/EC, Article 31

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# Flowdur RT Hardener

Revision 3
Revision date 2015-07-16

SECTION 1: Identification	of the substance/mixture and of the company/undertaking			
1.1. Product identifier				
Product name	Flowdur RT Hardener			
1.2. Relevant identified uses	of the substance or mixture and uses advised against			
Description	Restricted to professional users. Component Of A Three Pack Polyurethane Floor Screed.			
1.3. Details of the supplier of	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 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: Hazarde ident	idication			

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xn; R20-40-42/43-48/20 Xi; R36/37/38 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 1272/2008	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; Acute Tox. 4: H332; Resp. Sens. 1: H334; STOT SE 3: H335; Carc. 2: H351; STOT RE 2: H373;

## 2.2. Label elements

# Hazard pictograms





Signal Word
<b>Hazard Statement</b>

Danger

Skin Irrit. 2: H315 - Causes skin irritation.



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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

Index No.	CAS No.	EC No.	REACH Registration Number	Conc.Classification (%w/w)	M-factor.
615-005-00-9	101-68-8	202-966-0		60 - 70% Carc. Cat. 3; R40 Xn;	
				•	
				R42/43	
e 615-005-00-9	9016-87-9			20 - 30%	
		615-005-00-9 101-68-8	615-005-00-9 101-68-8 202-966-0	Number 615-005-00-9 101-68-8 202-966-0	Number (%w/w) 615-005-00-9 101-68-8 202-966-0 60 - 70% Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43



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#### 3.2. Mixtures

FC				

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc.Classification (%w/w)	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-diisocyar	nate 615-005-00-990	16-87-9			20 - 30%	

#### **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 symptom	s and effects, both acute and delayed			
Eye contact	Irritating to eyes.			
Skin contact	Irritating to skin.			
4.3. Indication of any immedia	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 oedema.			

## 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.

 $\label{prop:continuous} For \ residues; \hbox{- Pick up with absorbent material (e.g sand, sawdust, general purpose binder)}.$ 

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.



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#### 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 handling

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, 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)

The identified uses for this product are detailed in Section 1.2.

## 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	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.02
ate		
	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

safety glasses with side-shields.



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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

Annaarana	
Appearance	· ·
Colou	r Yellowish
Odou	r Earthy, musty
pŀ	Not applicable.
Melting poin	t No data available
Freezing Poin	t No data available
Initial boiling poin	t > 200
Flash poin	t 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 coefficien	t 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

	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 < 150 C.	
10.5. Incompatible materials		
	Acids, alcohols, amines, water, Alkalines.	
10.6. Hazardous decomposition products		
	No hazardous decomposition products if stored and handled as prescribed/indicated.	

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Serious eye damage/irritation Respiratory or skin sensitisation Serm cell mutagenicity Carcinogenicity Reproductive toxicity No data is available on this product. No data savailable on this product. No data available SECTION 12: Ecological information  In 1.1.4. Toxicity No data available SECTION 12: Ecological information  In 1.2.1. Toxicity No data available SECTION 12: Ecological information  In 1.2.2. Persistence and degradability No data is available on this product.  In 1.2.3. Bioaccumulative potential  In 1.2.4. Mobility in soil  In 1.2.5. Results of PBT and VPVB assessment No data is available on this product.  In 1.2.6. Other adverse effects No data is available on this product.  In 1.2.6. Other adverse effects No data is available on this product.  In 1.2.6. Other adverse effects  In 2.2. Disposal considerations  In 1.3.1. Waste treatment methods Completely empty the packaging and process it according to local legislation.  SECTION 14: Transport information  In 1.4. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Acute toxicity	No data is available on this product.
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sensitisation  Bern cell mutagenicity All Action and a sample on this product. No data is available on this product. No data is available on this product. No data is available on this product.  No data available on this product.  No data available  SECTION 12: Ecological information  No data available  SECTION 12: Ecological information  2.1. Toxicity  No data available  No data available  No data is available on this product.  No data is available on this product.  No data is available on this product.  Partition coefficient  Flowdur RT Hardener No data available  1.2.4. Mobility in soil  No data is available on this product.  1.2.5. Results of PBT and vPvB assessment  No data is available on this product.  SECTION 13: Disposal considerations  3.1. Waste treatment methods  Completely empty the packaging and process it according to local legislation.  SECTION 14: Transport information  4.6. Special precautions for user  The product is not classified as dangerous for carriage.  4.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Serious eye damage/irritation	Causes serious eye irritation.
Reproductive toxicity  No data is available on this product.  No data is available on this product.  No data is available  RECTION 12: Ecological information  Reproductive toxicity  No data available  RECTION 12: Ecological information  No data is available  No data is available on this product.  Represent 12: Ecological information  Rection 13: Disposal considerations  Rection 13: Disposal considerations  Rection 14: Transport information  Rection 14: Transport information  The product is not classified as dangerous for carriage.  The product is not classified as dangerous for carriage.  The product is not classified as dangerous for carriage.	Respiratory or skin sensitisation	May cause sensitisation by inhalation.
Reproductive toxicity  No data is available on this product.  1.1.4. Toxicological Information  No data available  SECTION 12: Ecological information  2.1. Toxicity  No data available  2.2. Persistence and degradability  No data is available on this product.  2.3. Bioaccumulative potential  No data is available on this product.  Partition coefficient  Flowdur RT Hardener No data available  1.2.4. Mobility in soil  No data is available on this product.  2.5. Results of PBT and vPvB assessment  No data is available on this product.  2.6. Other adverse effects  No data is available on this product.  SECTION 13: Disposal considerations  3.1. Waste treatment methods  Completely empty the packaging and process it according to local legislation.  SECTION 14: Transport information  4.6. Special precautions for user  The product is not classified as dangerous for carriage.  4.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Germ cell mutagenicity	No data is available on this product.
1.1.4. Toxicological Information   No data available	Carcinogenicity	No data is available on this product.
No data available  SECTION 12: Ecological information  2.1. Toxicity  No data available  12.2. Persistence and degradability  No data is available on this product.  2.3. Bioaccumulative potential  No data is available on this product.  Partition coefficient  Flowdur RT Hardener No data available  2.4. Mobility in soil  No data is available on this product.  2.5. Results of PBT and vPvB assessment  No data is available on this product.  2.6. Other adverse effects  No data is available on this product.  SECTION 13: Disposal considerations  3.1. Waste treatment methods  Completely empty the packaging and process it according to local legislation.  SECTION 14: Transport information  4.6. Special precautions for user  The product is not classified as dangerous for carriage.  4.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Reproductive toxicity	No data is available on this product.
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No data is available on this product.  2.6. Other adverse effects  No data is available on this product.  SECTION 13: Disposal considerations  3.1. Waste treatment methods  Completely empty the packaging and process it according to local legislation.  SECTION 14: Transport information  4.6. Special precautions for user  The product is not classified as dangerous for carriage.  4.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	12.5. Results of PBT and vPvE	<u>-</u>
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The product is not classified as dangerous for carriage.  4.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	SECTION 14: Transport info	ormation
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The manufact is not always to the same of	14.7. Transport in bulk accord	ling to Annex II of MARPOL 73/78 and the IBC Code
		The product is not classified as dangerous for carriage.
ADR/RID	ADR/RID	
The product is not classified as dangerous for carriage.		The product is not classified as dangerous for carriage.
MDG	IMDG	
The product is not classified as dangerous for carriage.		The product is not classified as dangerous for carriage.
ATA	IATA	
The product is not classified as dangerous for carriage.		The product is not classified as dangerous for carriage.
SECTION 15: Regulatory information	SECTION 15: Regulatory in	formation



Revision 3 Revision date 2015-07-16

#### 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 (EC) 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**

SECTION 16: Other information			
Other information			
Revision	This document differs from the previous version in the following areas:. 12 - 12.1. Toxicity.		
Text of risk phrases in Section 3	R20 - Harmful by inhalation. 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 Section 3	Skin Irrit. 2: H315 - Causes skin irritation.  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.		

