

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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## Flexideck UVR Hardener

Revision 0  
Revision date 2015-06-22

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

<b>1.1. Product identifier</b>	
<b>Product name</b>	Flexideck UVR Hardener
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>	
<b>Description</b>	Restricted to professional users. Component Of A Two Pack Polyurethane Floor Coating.
<b>1.3. Details of the supplier of the safety data sheet</b>	
<b>Company Address</b>	Virtus Resins The Shippon, Faenol Pentrecelyn Ruthin LL15 2SP
<b>Web</b>	www.epoxyresinsuppliers.co.uk
<b>Telephone</b>	+44 (0)1978 790 744
<b>Fax</b>	
<b>Email</b>	info@epoxyresinsuppliers.co.uk
<b>Email address of the competent person</b>	info@ epoxyresinsuppliers.co.uk
<b>1.4. Emergency telephone number</b>	
<b>Emergency telephone number</b>	+44 (0)1978 790 744  8.30am to 5.00pm Mon - Fri

### SECTION 2: Hazards identification

<b>2.1. Classification of the substance or mixture</b>	
<b>2.1.1. Classification - 1999/45/EC</b>	Xn; R20-42/43 Xi; R37 Symbols: Xn: Harmful.
<b>Main hazards</b>	Harmful by inhalation. Irritating to respiratory system. May cause sensitisation by inhalation and skin contact.
<b>2.1.2. Classification - EC 1272/2008</b>	Skin Sens. 1: H317; Acute Tox. 4: H332; Resp. Sens. 1: H334;
<b>2.2. Label elements</b>	
<b>Hazard pictograms</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 4: H332 - Harmful if inhaled. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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## 2.2. Label elements

<b>Precautionary Statement: Prevention</b>	<p>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P272 - Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P284 - [In case of inadequate ventilation] wear respiratory protection.</p>
<b>Precautionary Statement: Response</b>	<p>P302+P352 - IF ON SKIN: Wash with plenty of water/ .</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 - Call a POISON CENTER/doctor/ /if you feel unwell.</p> <p>P321 - Specific treatment (see on this label).</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ .</p>
<b>Precautionary Statement: Disposal</b>	<p>P501 - Dispose of contents/container to</p>

## 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.
aliphatic polyisocyanate		28182-81-2			90 - 100% Xn; R20 Xi; R37-43		
Hexamethylene-di-isocyanate	615-011-00-1	822-06-0	212-485-8		0.5 - 1% T; R23 Xi; R36/37/38 R42/43		

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
aliphatic polyisocyanate		28182-81-2			90 - 100%	Skin Sens. 1: H317; Acute Tox. 4: H332;	
Hexamethylene-di-isocyanate	615-011-00-1	822-06-0	212-485-8		0.5 - 1%	Acute Tox. 3: H331; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317;	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air. Keep the affected person warm and at rest.
<b>Eye contact</b>	Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
<b>Skin contact</b>	After contact with skin, wash immediately with plenty of water and soap.
<b>Ingestion</b>	DO NOT INDUCE VOMITING.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	No data is available on this product.
<b>Eye contact</b>	No data is available on this product.
<b>Skin contact</b>	No data is available on this product.
<b>Ingestion</b>	No data is available on this product.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Inhalation</b>	Seek medical attention if irritation or symptoms persist.
<b>Eye contact</b>	Seek medical attention if irritation or symptoms persist.
<b>Skin contact</b>	Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	Seek medical attention if irritation or symptoms persist.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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## 5.1. Extinguishing media

Foam, carbon dioxide or dry powder. Larger fires: Water spray, fog or mist.

## 5.2. Special hazards arising from the substance or mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapours and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

## 5.3. Advice for firefighters

Special protective equipment.  
Wear self-contained breathing apparatus and chemical-protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on protective equipment (see chapter 8). Remove sources of fire, ensure adequate ventilation/exhaust ventilation. Keep unauthorised persons away.

### 6.2. Environmental precautions

Do not allow to escape into waterways, waste water or soil.

### 6.3. Methods and material for containment and cleaning up

Remove mechanically; cover the remainder with wet, absorbent material (e.g sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container and do not seal. (evolution of CO<sub>2</sub> !). Keep damp in a safe ventilated area for several days. For further disposal measures see chapter 13.

### 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 sufficient air exchange and/or exhaust in work rooms. Exhaust ventilation necessary if product is sprayed.

In all areas where isocyanate aerosols and/or vapour concentrations are produced in elevated concentrations, exhaust ventilation must be provided in such a way that the workplace exposure limits is not exceeded. The air should be drawn from the personnel handling the product.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work and use skin-protecting ointment. Keep working clothes separately. Take off all contaminated clothing immediately.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep container in a well-ventilated place.

### 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

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## 8.1.1. Exposure Limit Values

Hexamethylene-di-isocyanate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m <sup>3</sup> : 0.02
	WEL 15 min limit ppm:	WEL 15 min limit mg/m <sup>3</sup> :
	WEL 8-hr limit mg/m <sup>3</sup> total - inhalable dust:	WEL 15 min limit mg/m <sup>3</sup> total - inhalable dust:
	WEL 8-hr limit mg/m <sup>3</sup> total - respirable dust:	WEL 15 min limit mg/m <sup>3</sup> total - respirable dust:

## 8.2. Exposure controls

	
Eye / face protection	Wear eye/face protection.
Skin protection - Handprotection	Wear suitable gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Yellowish
Odour	Nearly Odourless
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
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	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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## 10.1. Reactivity

No data is available on this product.

## 10.2. Chemical stability

No data is available on this product.

## 10.3. Possibility of hazardous reactions

Exothermic reaction with amines and alcohols; reacts slowly with water forming CO<sub>2</sub>, in closed containers risk of bursting owing to increase of pressure.

## 10.4. Conditions to avoid

No data is available on this product.

## 10.5. Incompatible materials

No data is available on this product.

## 10.6. Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

**SECTION 11: Toxicological information**

## 11.1. Information on toxicological 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.

## 11.1.4. Toxicological Information

No data available

**SECTION 12: Ecological information**

## 12.1. Toxicity

No data available

## 12.2. Persistence and degradability

No data is available on this product.

## 12.3. Bioaccumulative potential

No data is available on this product.

## Partition coefficient

Flexideck UVR 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 considerations**

## 13.1. Waste treatment methods

This product, when being disposed of in its unused and uncontaminated state should be treated

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## 13.1. Waste treatment methods

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.

## SECTION 14: Transport information

## 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 information

## Text of risk phrases in Section 3

R20 - Harmful by inhalation.  
 R23 - Toxic by inhalation.  
 R36/37/38 - Irritating to eyes, respiratory system and skin.  
 R37 - Irritating to respiratory system.  
 R42/43 - May cause sensitisation by inhalation and skin contact.  
 R43 - May cause sensitisation by skin contact.

## Text of Hazard Statements in Section 3

Skin Sens. 1: H317 - May cause an allergic skin reaction.  
 Acute Tox. 4: H332 - Harmful if inhaled.  
 Skin Irrit. 2: H315 - Causes skin irritation.  
 Eye Irrit. 2: H319 - Causes serious eye irritation.  
 Acute Tox. 3: H331 - Toxic 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.

## 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.