

# SAFETY DATA SHEET


according to 1907/2006/EC, Article 31

## Flowcoat Coloured Hardener

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

<b>1.1. Product identifier</b>	
<b>Product name</b>	Flowcoat Coloured 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 Epoxy 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>	Xi; R38-41 R52/53 Symbols: Xi: Irritant.
<b>Main hazards</b>	Irritating to skin. Risk of serious damage to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>2.1.2. Classification - EC 1272/2008</b>	Skin Irrit. 2: H315; Eye Dam. 1: H318;
<b>2.2. Label elements</b>	
<b>Hazard pictograms</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	Skin Irrit. 2: H315 - Causes skin irritation. Eye Dam. 1: H318 - Causes serious eye damage.

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## 2.2. Label elements

Precautionary Statement: Prevention	P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ . 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/ . P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention.

## 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.
Linseed Oil		68915-81-1			10 - 20%	Xi; R38-41	
Isopropanol (Propan-2-ol)	603-117-00-0	67-63-0	200-661-7		1 - 10%	F; R11 Xi; R36 R67	
2,2'-Iminodiethylamine (2,2'-Iminodi(ethylamine))	612-058-00-X	111-40-0	203-865-4		0 - 0.5%	Xn; R21/22 C; R34 R43	
3,6,9,12-Tetra-azatetradecamethyl enediamine	612-064-00-2	4067-16-7	223-775-9		0 - 0.5%	C; R34 R43 N; R50/53	
Tetraethylenepentamine	612-060-00-0	112-57-2	203-986-2		0 - 0.5%	Xn; R21/22 C; R34 R43 N; R51/53	

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Linseed Oil		68915-81-1			10 - 20%	Skin Irrit. 2: H315; Eye Dam. 1: H318;	
Isopropanol (Propan-2-ol)	603-117-00-0	67-63-0	200-661-7		1 - 10%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;	
3,6,9,12-Tetra-azatetradecamethyl enediamine	612-064-00-2	4067-16-7	223-775-9		0 - 0.5%	Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	
Tetraethylenepentamine	612-060-00-0	112-57-2	203-986-2		0 - 0.5%	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 2: H411;	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.
Eye contact	Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
Skin contact	Wash off immediately with plenty of water for at least 20 minutes. Immediately remove contaminated clothing, and any extraneous chemical. If possible to do so without delay. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid d cream has been effective in treating skin irritation.
Ingestion	If a person vomits when lying on his back, place in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

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

Inhalation	No data is available on this product.
Eye contact	No data is available on this product.
Skin contact	No data is available on this product.
Ingestion	No data is available on this product.

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

Inhalation	No data is available on this product.
Eye contact	No data is available on this product.
Skin contact	No data is available on this product.
Ingestion	No data is available on this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Alcohol resistant foam. Dry chemical.
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### 5.2. Special hazards arising from the substance or mixture

	Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.
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### 5.3. Advice for firefighters

	Use personal protective equipment. Wear self contained breathing apparatus for firefighting if necessary.
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## SECTION 6: Accidental release measures

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

	Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
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### 6.2. Environmental precautions

	Construct a dike to prevent spreading.
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### 6.3. Methods and material for containment and cleaning up

	Approach suspected leak areas with caution. Place in appropriate chemical waste container.
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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.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

	Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.
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### 7.2. Conditions for safe storage, including any incompatibilities

	Keep container tightly closed and in a well-ventilated place.
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### 7.3. Specific end use(s)

	The identified uses for this product are detailed in Section 1.2.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

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## 8.1.1. Exposure Limit Values

2,2'-Iminodiethylamine (2,2'-Iminodi(ethylamine))	WEL 8-hr limit ppm: 1	WEL 8-hr limit mg/m3: 4.3
	WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Isopropanol (Propan-2-ol)	WEL 8-hr limit ppm: 400	WEL 8-hr limit mg/m3: 999
	WEL 15 min limit ppm: 500 WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3: 1250 WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:

## 8.2. Exposure controls



## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance	Liquid	
Colour	Various	
Odour	Ammoniacal	
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
Flash 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

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## 10.1. Reactivity

	Refer to possibility of hazardous reactions and/or incompatible materials sections.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	No data is available on this product.
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## 10.4. Conditions to avoid

	No data is available on this product.
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## 10.5. Incompatible materials

	No data is available on this product.
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## 10.6. Hazardous decomposition products

	No data is available on this product.
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## 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
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## SECTION 12: Ecological information

### 12.1. Toxicity

	No data available
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### 12.2. Persistence and degradability

	No data is available on this product.
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### 12.3. Bioaccumulative potential

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### Partition coefficient

	Flowcoat Coloured Hardener No data available
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### 12.4. Mobility in soil

	No data is available on this product.
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### 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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### 12.6. Other adverse effects

	No data is available on this product.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

	Dispose of container and unused contents in accordance with federal, state and local requirements.
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## SECTION 14: Transport information

### ADR/RID

The product is not classified as dangerous for carriage.

### IMDG

The product is not classified as dangerous for carriage.

### IATA

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".

## SECTION 16: Other information

### Other information

#### Revision

This document differs from the previous version in the following areas.:

- 2 - 2.1. Classification of the substance or mixture.
- 2 - 2.1.2. Classification - EC 1272/2008.
- 2 - Hazard pictograms.
- 2 - Precautionary Statement: Prevention.
- 2 - Precautionary Statement: Response.
- 2 - Precautionary Statement: Disposal.
- 12 - 12.1. Toxicity.
- 15 - Labelling.
- 15 - Risk phrases.

#### Text of risk phrases in Section 3

R11 - Highly flammable.  
 R21/22 - Harmful in contact with skin and if swallowed.  
 R34 - Causes burns.  
 R36 - Irritating to eyes.  
 R38 - Irritating to skin.  
 R41 - Risk of serious damage to eyes.  
 R43 - May cause sensitisation by skin contact.  
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R67 - Vapours may cause drowsiness and dizziness.

#### Text of Hazard Statements in Section 3

Skin Irrit. 2: H315 - Causes skin irritation.  
 Eye Dam. 1: H318 - Causes serious eye damage.  
 Flam. Liq. 2: H225 - Highly flammable liquid and vapour.  
 Eye Irrit. 2: H319 - Causes serious eye irritation.  
 STOT SE 3: H336 - May cause drowsiness or dizziness.  
 Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.  
 Skin Sens. 1: H317 - May cause an allergic skin reaction.

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**Other information**

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  
Acute Tox. 4: H302 - Harmful if swallowed.  
Acute Tox. 4: H312 - Harmful in contact with skin.  
Aquatic Chronic 2: H411 - Toxic 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.