



## SAFETY DATA SHEET

### STYCCOBOND F84 RESIN

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

##### 1.1. Product identifier

**Product name** STYCCOBOND F84 RESIN  
**Product number** F3579  
**Internal identification** SBF84R/13

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Component of epoxy resin based system  
**Uses advised against** None

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** F.Ball and Co. Ltd.  
Churnetside Business Park,  
Station Road,  
Cheddleton,  
Leek,  
Staffordshire. ST13 7RS  
Tel: 01538 361633 Mon-Fri 8.30am-5.00pm (Exc Bank Holidays)  
Fax: 01538 361622  
E.mail: msds@f-ball.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** 01538 361633 Mon-Fri 8.30am - 5.00pm (excluding Bank Holidays)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

###### Physical hazards

Not Classified

###### Health hazards

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT RE 1 - H372

###### Environmental hazards

Aquatic Chronic 2 - H411

###### Classification (67/548/EEC or 1999/45/EC)

T; R48/23/24/25. Xi; R36/38. N; R51/53. R43

###### Human health

The liquid is irritating to eyes and skin. Risk of sensitisation by skin contact

###### Environmental

The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

###### Physicochemical

When handled correctly, undamaged units represent no danger.

##### 2.2. Label elements

**STYCCOBOND F84 RESIN****Pictogram****Signal word**

Danger

**Hazard statements**

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe vapour/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 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.  
 P313 Get medical advice/attention.

**Contains**

EPOXY RESIN (Number average MW <= 700 ), C13/15 ALKYLGLYCIDYL ETHER, BISPHENOL TYPE F EPOXY RESIN, OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

**Supplementary precautionary statements**

P264 Wash contaminated skin thoroughly after handling.  
 P501 Dispose of contents/container in accordance with national regulations.

**2.3. Other hazards****SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>EPOXY RESIN (Number average MW &lt;= 700 )</b>	<b>10-30%</b>
CAS number: 25068-38-6 EC number: 500-033-5 REACH registration number: 01-2119456619-26	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	R43 Xi;R36/38 N;R51/53
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>C13/15 ALKYLGLYCIDYL ETHER</b>	<b>1-5%</b>
CAS number: 68081-84-5 EC number: 268-358-2	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	Xi;R36/38. N;R51/53. R43.
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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<b>BISPHENOL TYPE F EPOXY RESIN</b>	<b>1-5%</b>
CAS number: 54208-63-8 EC number: 500-033-5	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36/38. N;R51/53. R43.
<b>OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS</b>	<b>1-5%</b>
CAS number: 68609-97-2 EC number: — REACH registration number: 01-2119485289	
<b>Classification</b> Skin Irrit. 2 - H315 Skin Sens. 1 - H317	<b>Classification (67/548/EEC or 1999/45/EC)</b> R43 Xi;R38
<b>SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC</b>	<b>1-5%</b>
CAS number: 64742-95-6 EC number: 265-199-0	
<b>Classification</b> Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 STOT SE 3 - H335, H336 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R65. Xi;R37. N;R51/53. R10,R66,R67.
<b>4-NONYLPHENOL, Branched</b>	<b>&lt;1%</b>
CAS number: 84852-15-3 EC number: 284-325-5	
M factor (Acute) = 10 M factor (Chronic) = 10	
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Repr. 2 - H361fd Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> Repr. Cat. 3;R62,R63 C;R34 Xn;R22 N;R50/53

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments** Epoxy resin blend.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove affected person from source of contamination.

##### Inhalation

Move affected person to fresh air at once. Get medical attention if any discomfort continues.

##### Ingestion

Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention immediately.

##### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

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### Eye contact

Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

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

#### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

#### Inhalation

Vapour from this product may be hazardous by inhalation.

#### Ingestion

May cause discomfort if swallowed.

#### Skin contact

Skin irritation. May cause an allergic skin reaction.

### Eye contact

Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

#### Notes for the doctor

Treat symptomatically.

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## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

#### Suitable extinguishing media

Extinguish with foam, carbon dioxide or dry powder.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

#### Specific hazards

Toxic gases/vapours/fumes of: Oxides of the following substances: Carbon. Nitrogen.

#### Hazardous combustion products

Oxides of carbon. Oxides of nitrogen.

### 5.3. Advice for firefighters

#### Protective actions during firefighting

No specific firefighting precautions known.

#### Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## SECTION 6: Accidental release measures

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

#### Personal precautions

Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

#### Environmental precautions

Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid discharge into drains or watercourses or onto the ground. Contain spillages with sand, earth or any suitable absorbent material.

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

#### Methods for cleaning up

Absorb spillage with sand or other inert absorbent. Collect spillage in containers, seal securely and deliver for disposal as hazardous waste.

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### 6.4. Reference to other sections

#### Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Usage precautions

Provide adequate ventilation. Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using the product.

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

#### Storage precautions

Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in closed original container at temperatures between 5°C and 30°C. Store in a cool and well-ventilated place.

### 7.3. Specific end use(s)

#### 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

#### Occupational exposure limits

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

#### Personal protection

Always check applicability with your supplier of protective equipment.

#### Eye/face protection

If there is a risk of splashing, wear chemical resistant goggles or visor approved to BS EN166.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Nitrile gloves to BSEN374 are recommended. Break through times can vary depending on thickness, use and source. Change gloves regularly.

#### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

#### Hygiene measures

Provide eyewash station. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Wash contaminated clothing before reuse.

#### Respiratory protection

In case of inadequate ventilation use a respirator suitable for organic vapours. Consult respirator manufacturer for specific advice.

#### Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

## SECTION 9: Physical and Chemical Properties

## STYCCOBOND F84 RESIN

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

**Appearance**

Paste.

**Colour**

Brown.

**Odour**

Slight. Aromatic.

**pH**

pH (concentrated solution): N/A

**Flash point**

N/A°C

**Relative density**

1.27 approx @ @ 20 degC°C

**Viscosity**

40000-60000 approx cP @ 35 degC°C

### 9.2. Other information

**Other information**

None.

**Volatility**

N/A

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## SECTION 10: Stability and reactivity

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### 10.1. Reactivity

The following materials may react with the product: Acids. Strong alkalis. Strong oxidising agents.

### 10.2. Chemical stability

**Stability**

Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4. Conditions to avoid

Considerable exothermic reaction can occur when mixed with epoxide hardeners.

### 10.5. Incompatible materials

**Materials to avoid**

Strong acids. Strong alkalis. Strong oxidising agents.

### 10.6. Hazardous decomposition products

Oxides of carbon. Oxides of nitrogen.

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## SECTION 11: Toxicological information

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### 11.1. Information on toxicological effects

**Toxicological effects**

No information available.

**General information**

No specific health hazards known.

**Inhalation**

May be harmful if inhaled.

**Ingestion**

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May be harmful if swallowed.

### Skin contact

Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact.

### Eye contact

Irritating to eyes.

### Acute and chronic health hazards

Causes damage to organs through prolonged or repeated exposure.

### Route of entry

Skin and/or eye contact Inhalation

### Target organs

Eyes Skin

### Medical symptoms

Skin irritation. Irritation of eyes and mucous membranes.

### Medical considerations

Pre-existing eye problems. Skin disorders and allergies.

#### Toxicological information on ingredients.

##### EPOXY RESIN (Number average MW <= 700 )

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg)

2,000

#### Species

Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg)

2000

#### Species

Rat

##### C13/15 ALKYLGLYCIDYL ETHER

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg)

5,000

#### Species

Rat

##### OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg)

17,100

#### Species

Rat

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## SECTION 12: Ecological Information

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### Ecotoxicity

The product should not be allowed to enter drains, sewers or watercourses. Toxic to aquatic life with long lasting effects.

### 12.1. Toxicity

Not available

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### Ecological information on ingredients.

#### EPOXY RESIN (Number average MW <= 700 )

##### **Acute toxicity - fish**

LC50, 96 hours: 1.3 mg/l, Onchorhynchus mykiss (Rainbow trout)

##### **Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, 48 hours: 2.1 mg/l, Daphnia magna

##### **Acute toxicity - aquatic plants**

, 72 hours: > 11 mg/l, Freshwater algae

##### **Acute toxicity - microorganisms**

EC<sub>50</sub>, 3 hours: > 100 mg/l, Activated sludge

#### OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

##### **Acute toxicity - fish**

LC50, 96 hours: > 1800 , Leuciscus idus (Golden orfe)

##### **Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, 48 hours: 844 mg/l, Daphnia magna

##### **Acute toxicity - microorganisms**

EC<sub>50</sub>, >: > 100 mg/l, Activated sludge

#### 4-NONYLPHENOL, Branched

##### Acute aquatic toxicity

###### **LE(C)<sub>50</sub>**

0.01 < L(E)C50 ≤ 0.1

###### **M factor (Acute)**

10

##### Chronic aquatic toxicity

###### **M factor (Chronic)**

10

### 12.2. Persistence and degradability

#### **Persistence and degradability**

There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

No data available on bioaccumulation.

### 12.4. Mobility in soil

#### **Mobility**

The product is non-volatile.

### 12.5. Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

None known.

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## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **General information**

Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### **Disposal methods**

Small quantities of product may be treated with an equivalent quantity of product hardener, allowed to cure and disposed of as

**STYCCOBOND F84 RESIN**

low hazard waste.

Large quantities should be disposed of via licensed waste operators to an approved incineration unit. Product containers must not be re-used without commercial cleaning.

**SECTION 14: Transport information**

<b>General</b>	No other information known.
<b>Road transport notes</b>	Avoid releasing into the environment.
<b>Rail transport notes</b>	Avoid releasing into the environment.
<b>Sea transport notes</b>	Do not release into the environment.
<b><u>14.1. UN number</u></b>	
<b>UN No. (ADR/RID)</b>	3082
<b>UN No. (IMDG)</b>	3082
<b>UN No. (ICAO)</b>	3082
<b><u>14.2. UN proper shipping name</u></b>	
<b>Proper shipping name (ADR/RID)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC)
<b>Proper shipping name (ADN)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC)

**14.3. Transport hazard class(es)**

<b>ADR/RID class</b>	9
<b>ADR/RID subsidiary risk</b>	
<b>ADR/RID label</b>	9
<b>IMDG class</b>	9
<b>IMDG subsidiary risk</b>	
<b>ICAO class/division</b>	9
<b>ICAO subsidiary risk</b>	

**Transport labels****14.4. Packing group**

<b>ADR/RID packing group</b>	III
<b>IMDG packing group</b>	III
<b>ICAO packing group</b>	III

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant



Yes.

**STYCCOBOND F84 RESIN****14.6. Special precautions for user**

**EmS** F-A, S-F  
**Emergency Action Code** •3Z  
**Hazard Identification Number (ADR/RID)** 90  
**Tunnel restriction code** (E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Control of Substances Hazardous to Health Regulations 2002 (as amended).

**Guidance**

Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.

**Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are known for this product.

**Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions on use are known for this product.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

F.Ball and Company Ltd Technical Datasheet.

**Key literature references and sources for data**

Health and Safety Executive Guidance Note EH40 (amended annually). Workplace Exposure Limits.

**Revision comments**

Section 2: update.

**Revision date** 17/04/2015  
**Revision** 13  
**Supersedes date** 23/01/2013  
**SDS status** Approved.  
**Risk phrases in full**

## STYCCOBOND F84 RESIN

- R10 Flammable.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R36/38 Irritating to eyes and skin.
- R37 Irritating to respiratory system.
- R38 Irritating to skin.
- R43 May cause sensitisation by skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 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.
- R62 Possible risk of impaired fertility.
- R63 Possible risk of harm to the unborn child.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

### Hazard statements in full

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

### Disclaimer

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.