

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

1.1. Product identifier

Product name "EPOK 502"

1.3. Details of the supplier of the safety data sheet

Company	CFS
Address	United Downs Industrial Park St Day Cornwall TR16 5HY United Kingdom
Telephone	01209 : 41028
Fax	01209 : 44192
Email	sales@cfsnet.co.uk

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

2.1.1. Classification - Xi; R36/38-43 N; R51/53

1999/45/EC  
Main hazards Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SECTION 3: Composition/information on ingredients**

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EINECS No.	REACH Registration Number	Conc. (%w/w)	Classification
Bisphenol A-(epichlorhydrin) (reaction product)	603-074-00-8	25068-38-6	500-033-5		50 - 100%	Xi; R36/38 R43 N; R51/53

**SECTION 4: First aid measures**

4.1. Description of first aid measures

Inhalation	Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

**SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Carbon oxides.

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

Burning produces irritating, toxic and obnoxious fumes.

## 5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

**SECTION 6: Accidental release measures**

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

Ensure adequate ventilation of the working area. Wear suitable protective equipment.

## 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

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

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

**SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

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

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

**SECTION 8: Exposure controls/personal protection**

## 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

## 8.2.2. Individual protection measures

Wear chemical protective clothing.

## Eye / face protection

Approved safety goggles.

Skin protection -  
Handprotection

Chemical resistant gloves (PVC).

## Respiratory protection

Wear.. Suitable respiratory equipment.

**SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Clear
Odour	Slight
Relative density	1.15
Viscosity	2300 mPa.s (25°C)

**SECTION 10: Stability and reactivity**

## 10.2. Chemical stability

Stable under normal conditions.

**SECTION 11: Toxicological information**

## 11.1.4. Toxicological Information

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Bisphenol A-(epichlorhydrin) (reaction product)	Oral Rat LD50 = 11400 mg/kg	Dermal Rabbit LD50 = > 2000 mg/kg
Di-iso-butyl phthalate	Oral Rat LD50 = 15000 mg/kg	

## SECTION 12: Ecological information

## 12.1. Toxicity

Bisphenol A-(epichlorhydrin) (reaction product)	Green algae EC50/96h = 220 mg/l	Rainbow trout LC50/96h = 1.5 - 7.7 mg/l
Di-iso-butyl phthalate	Fish LC50/96h = 3.0 mg/l mg/l	Algae EC50/72h = 2.2 mg/l

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SECTION 13: Disposal considerations

## General information

Dispose of in compliance with all local and national regulations.

## SECTION 14: Transport information

## Hazard pictograms

## Hazard pictograms



## 14.1. UN number

UN3082

## 14.2. UN proper shipping name

## Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## 14.3. Transport hazard class(es)

ADR/RID	9
IMDG	9
Subsidiary risk	-
IATA	9
Subsidiary risk	-

## 14.4. Packing group

## Packing group

III

## 14.5. Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

## ADR/RID

Hazard ID	90
Tunnel Category	E

## IMDG


EmS Code	F-A S-F
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## IATA

Packing Instruction (Cargo)	914
Maximum quantity	450 L
Packing Instruction (Passenger)	914
Maximum quantity	450 L

**SECTION 15: Regulatory information**

## Labelling

Symbols	<p>The product is classified in accordance with 67/548/EEC.          Xi: Irritant. N: Dangerous for the environment.</p> 
Risk phrases	<p>R36/38 - Irritating to eyes and skin.          R43 - May cause sensitisation by skin contact.          R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
Safety phrases	<p>S24 - Avoid contact with skin.          S29 - Do not empty into drains.          S37 - Wear suitable gloves.</p>

**SECTION 16: Other information**

## Other information

Revision	<p>This document differs from the previous version in the following areas:          9 - 9.1. information on basic physical and chemical properties.          9 - 9.2. other information.</p>
Text of risk phrases in Section 3	<p>R36/38 - Irritating to eyes and skin.          R43 - May cause sensitisation by skin contact.          R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
Further information	<p>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.</p>

**SAFETY DATA SHEET**  
according to 1907/2006/EC, Article 31

**EPOK Hardener**

Revision 3  
Revision date 2011-03-11

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

1.1. Product identifier

Product name "EPOK Hardener H3"

1.3. Details of the supplier of the safety data sheet


Company	CFS Fibreglass
Address	United Downs Ind Park St Day Cornwall TR16 5HY United Kingdom
Telephone	01209 821028
Fax	01209 822192
Email	sales@cfsnet.co.uk

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

2.1.1. Classification - 67/548/EEC	C; R34 R43 N; R50/53
Main hazards	Causes burns. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.1.2. Classification - EC 1272/2008	Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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## 2.2. Label elements

Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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. P310 - Immediately call a POISON CENTER or doctor/physician. P321 - Specific treatment (see on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P391 - Collect spillage.
Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EINECS No.	REACH Registration Number	Conc. (%w/w)	Classification
3,6,9,12-Tetra-azatetradecamethyl enediamine	612-064-00-2	4067-16-7	223-775-9		50 - 100%	C; R34 R43 N; R50/53

EC 1272/2008

Chemical Name	Index No.	CAS No.	EINECS No.	REACH Registration Number	Conc. (%w/w)	Classification
3,6,9,12-Tetra-azatetradecamethyl enediamine	612-064-00-2	4067-16-7	223-775-9		50 - 100%	Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention.
Skin contact	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.
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### 5.2. Special hazards arising from the substance or mixture

	Corrosive. Burning produces irritating, toxic and obnoxious fumes.
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### 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

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

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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## 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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## 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
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### 7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
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## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Wear.. Self-contained breathing apparatus.

## SECTION 9: Physical and chemical properties

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

State	Liquid
Colour	Amber
Odour	Ammoniacal
Relative density	1.00
Viscosity	200 mPa.s (20°C)

## SECTION 10: Stability and reactivity

### 10.2. Chemical stability

	Stable under normal conditions.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Skin corrosion/irritation	Causes burns.
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## SECTION 12: Ecological information

## SECTION 13: Disposal considerations

### General information

	Dispose of in compliance with all local and national regulations.
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## SECTION 14: Transport information

### Hazard pictograms

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## Hazard pictograms

Hazard pictograms	
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## 14.1. UN number

UN number	UN2735
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## 14.2. UN proper shipping name

Proper Shipping Name	POLYAMINES, LIQUID, CORROSIVE, N.O.S.
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## 14.3. Transport hazard class(es)

ADR/RID	8
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

## 14.4. Packing group

Packing group	III
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## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## ADR/RID

Hazard ID	80
Tunnel Category	E

## IMDG

EmS Code	F-A S-B
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## IATA

Packing Instruction (Cargo)	820
Maximum quantity	60 L
Packing Instruction (Passenger)	818
Maximum quantity	5 L

## SECTION 15: Regulatory information

## SECTION 16: Other information

### Other information

Revision	This document differs from the previous version in the following areas: 9 - 9.1. information on basic physical and chemical properties. 9 - 9.2. other information.
Text of risk phrases in Section 3	R34 - Causes burns. R43 - May cause sensitisation by skin contact. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Text of Hazard Statements in Section 3	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Further information	

# EPOK Hardener

Revision 3

Revision date 2011-03-11

## 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.