

Date : January 2010

## HEALTH & SAFETY DATA SHEET : S-CS-SEALANT

S-CS-SEALANT contains diphenylmethane - 4.4 diisocyanate.

Harmful if taken internally - do not inhale fumes.

Covering capacity figures given in this leaflet are approximate only. They are quoted solely for guidance and are therefore given entirely without responsibility because conditions of surface and workmanship vary with each particular job).

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**UK HEALTH & SAFETY AT WORK ACT 1974**

**PRODUCT SAFETY DATA SHEET : S-CS-SEALANT PACK A**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**1.1 CHEMICAL NATURE**

Preparation containing a product of coal tar origin and polyester polypol blended with butylbenzyl phthalate

**1.2 COMPANY – FIBRELITE COMPOSITES LTD ENGLAND**

TEL NO: +44 (0)1756 799773

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

	<b>CAS NO</b>	<b>EC NO</b>	<b>UN NO</b>
Butylbenzyl phthalate	85-68-7		

**HAZARDOUS COMPONENTS IN COAL TAR PRODUCT**

<b>Substance</b>	<b>Concentration</b>	<b>Symbol</b>	<b>R-phrase</b>
<b>Benzo(a)anthracene</b>	0.17%	T	45
<b>Benzo(a)pyrene</b>	0.16%	T	45,46,47
<b>Dibenzo(ah)anthracene</b>	0.02%	T	45
<b>Benzo( b+j+k)</b>			
<b>Fluoranthene</b>	0.23%	T	45

### **3. HAZARD IDENTIFICATION EEC-LABEL**

- 3.1 May cause cancer T
- 3.2 Harmful in contact with skin and if swallowed
- 3.3 Harmful by inhalation

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### **4. FIRST AID MEASURES**

#### **4.1 SKIN CONTACT**

Remove contaminated clothing.

Wash affected area with plenty of soap and water do not use solvents.

Launder clothes before re-use

#### **4.2 EYE CONTACT**

**WILL CAUSE LACRIMATION AND SEVERE IRRITATION**

Rinse immediately with water for at least 15 minutes seek medical attention.

#### **4.3 INHALATION**

Move affected person to fresh air.

If recovery not rapid seek medical attention.

#### **4.4 INGESTION**

Only when conscious rinse mouth with plenty of water.

Keep patient at rest and seek medical attention immediately.

In case of spontaneous vomiting be sure that vomit can freely drain because of danger of suffocation.

**INDUCE VOMITING** but only as directed by Medical Personnel.

**IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSISTS ALWAYS SEEK MEDICAL ATTENTION.**

## **5 FIRE FIGHTING MEASURES**

### **5.1 SUITABLE EXTINGUISHING MEDIA**

Water mist, Carbon dioxide, Foam, Dry powder.

### **5.2 UNSUITABLE EXTINGUISHING MEDIA**

High pressure water jet.

### **5.3 EXPOSURE HAZARDS**

Noxious or toxic vapours may be released in fire situation.

Do not release contaminated water into drains soil or surface water.

Take measures to retain water used for extinguishing.

Dispose of contaminated water and soil according to Local regulations

### **5.4 PROTECTIVE EQUIPMENT**

Fire-fighters should wear self contained breathing apparatus.

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## **6 ACCIDENTAL RELEASE MEASURES**

Avoid ignition sources.

### **6.1 PERSONAL PRECAUTIONS**

Avoid direct contact with skin eyes and clothing.

Do not breathe vapour.

### **6.2 ENVIRONMENTAL PRECAUTIONS**

Prevent contamination of soil drains and surface water.

### **6.3 CLEAN UP METHODS**

Take up with absorbent inert material and place in a suitable and closable container for disposal. Wash the area clean with water and detergent.

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## **7 HANDLING AND STORAGE**

### **7.1 HANDLING**

Ensure vapour formation and ignition sources.

Do not eat drink or smoke at work place.

### **7.2 STORAGE**

In a cool well ventilated place in a securely closed original container.

Keep away from food and drink.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 EXPOSURE CONTROL LIMITS

	LONG TERM (8 HOUR TWA)		SHORT TERM (10 MIN)	
	ppm	mgm-3	ppm	mgm-3
Butylbenzyl phthalate		5		

### 8.2 SPECIAL PROTECTIVE MEASURES

#### RESPIRATORY PROTECTION

In case of insufficient ventilation wear suitable ORI-NASAL respirator fitted with a combination of K1/P2 Type.

#### HAND PROTECTION

Impervious gloves with cotton liners.

#### EYE PROTECTION

Goggles or face protection.

#### SKIN PROTECTION

Wear overalls and closed footwear

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	black semi pourable paste	<b>MELTING POINT:</b>	
<b>ODOUR:</b>	of tar	<b>BOILING POINT:</b>	
<b>DESNITY:</b>	1.35-1.45 g/cm3 ~ 25°C	<b>OXODISING PROPERTIES:</b>	
<b>FLASH POINT:</b>		<b>VAPOUR PRESSURE:</b>	
<b>IGNITION:</b>		<b>FLAMMABILITY:</b>	Will burn in fire situation
<b>SOLUBILITY IN WATER:</b>	insoluble pH-VALUE		

## **10 STABILITY AND REACTIVITY – Stable at ambient temperature**

### 10.1 THERMAL DECOMPOSITION

### 10.2 CONDITIONS TO AVOID

Ignition sources.

Prolonged storage at temperatures above 50°C do not store in direct sunlight.

### 10.3 MATERIALS TO AVOID

Strong acids and strong oxidising agents.

### 10.4 HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or burning may release oxides of carbon and other hazardous gases or vapours.

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## **11 TOXICOLOGICAL INFORMATION**

### 11.1 LD 50 (RATS - ORAL TOXICITY)

### 11.2 SKIN IRRITATION (RABBITS)

### 11.3 EYE IRRITATION (RABBITS)

### 11.4 SKIN SENSITIZATION

Long term exposure to high concentrations of vapour may result in damage to internal organs.

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## **12 ECOLOGICAL INFORMATION**

Prevent contamination of soil drains or surface waters.

### 12.1 Butylbenzyl phthalate

### 12.2 AQUATIC TOXICITY

Toxic to fish and algae.

Readily biodegradable with half life of 2 days

EC 50 DAPHNIA MAGNA (24h) - 3.7 mg/l

LC 50 RAINBOW TROUT (96h) - 3.3 mg/l

**13 DISPOSAL INFORMATION**

**13.1 DISPOSAL OF PRODUCT**

According to Local regulations.

**13.2 DISPOSAL OF PACKAGE**

According to Local regulations.

Waste containers should bear original labelling

**14 REGULATORY INFORMATION**

**14.1 CLASSIFICATION SYMBOL - T**

**14.2 CHEMICAL IDENTITY - EEC-NO**

Polyalkylamine mixture containing product of coal tar origin and butylbenzyl phthalate.

**14.3 RISK PHRASES**

R 21/22	Harmful in contact with skin and if swallowed
R 45	May cause cancer
R 46	May cause heritable genetic
R 47	May cause birth defects
R 36/38	Irritating to eyes and skin

**14.4 SAFETY PHRASES**

S53	Avoid exposure - obtain special instructions before use
S26	In case of contact with eyes rinse immediately with plenty of water and seek medical advice
S28	After contact with skin wash immediately with plenty of soap and water
S 36/37/39	Wear suitable protective clothing gloves and eye/face protection
S44	If you feel unwell seek medical advice (show the label where possible)

THE FOREGOING DATA IS FOR SAFETY INFORMATION ONLY AND DOES NOT FORM PART OF ANY SELLING SPECIFICATION.

THE INFORMATION IN THIS DATA SHEET IS TO THE BEST OF CM SEALANTS KNOWLEDGE CORRECT AT THE DATE OF PUBLICATION.

FOR ANY FURTHER INFORMATION PLEASE CONTACT THE SUPPLIERS.

CUSTOMERS SHOULD SATISFY THEMSELVES THAT THE PRODUCT WHICH THEY HAVE SELECTED IS ENTIRELY SUITABLE FOR THEIR PURPOSES UNDER THEIR CONDITIONS OF USE



**UK HEALTH & SAFETY AT WORK ACT 1974**

**PRODUCT SAFETY DATA SHEET**

**BRAND NAME : S-CS-SEALANT PACK B**

**1 PRODUCT AND COMPANY IDENTIFICATION**

**1.1 CHEMICAL NATURE**

Preparation containing Diphenylmethane-4,4'-diisocyanate and Butyl benzyl phthalate

**1.2 COMPANY – FIBRELITE COMPOSITES LTD ENGLAND**

TEL NO: +44 (0)1756 799773

**2 COMPOSITION/INFORMATION ON INGREDIENTS**

**2.1**

	CAS NO	EEC NO	UN NO
Diphenylmethane-4-4 , - diisocyanate + isomers 101-86-8 202-099-06 2489 EEC-SYMBOL - Xn	101-86-8	202-099-06	2489
R-PHRASES: 36/37/38/42 Butylbenzyl phthalate 85-68-7 3082 EEC-SYMBOL R-PHRASES	85-68-7		3082

**3 HAZARD IDENTIFICATION/LABEL**

3.1 Harmful by inhalation/Xn

3.2 May cause sensitisation by inhalation.

3.3 Irritating to eyes respiratory system and skin.

## **4 FIRST AID MEASURES**

### **4.1 SKIN CONTACT**

Remove contaminated clothing.

Wash affected area with plenty of soap and water.

Do not use solvents - Launder clothes before re-use.

### **4.2 EYE CONTACT**

Rinse immediately with water for at least 15 minutes. Seek Medical attention.

### **4.3 INHALATION**

Move affected person to fresh air. If recovery not rapid seek medical attention.

### **4.4 INGESTION**

Only when conscious rinse mouth with plenty of water and give plenty of water to drink (approx 500 ml) Keep patient at rest and obtain medical attention.

**DO NO INDUCE VOMITING**

In case of spontaneous vomiting be sure that vomit can freely drain because of the danger of suffocation.

**IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST ALWAYS SEEK MEDICAL ATTENTION**

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## **5 FIRE FIGHTING MEASURES**

### **5.1 SUITABLE EXTINGUISHING MEDIA**

Carbon dioxide, foam, Dry powder.

### **5.2 UNSUITABLE EXTINGUISHING MEDIA**

High pressure water jet.

### **5.3 EXPOSURE HAZARDS**

In case of fire possible formation of carbon monoxide nitrogen oxide and traces of hydrogen cyanide. Do not release contaminated water into drains soil or surface water.

Take measures to retain water used for extinguishing Dispose of contaminated water and soil according to Local regulations.

### **5.4 PROTECTIVE EQUIPMENT**

Self contained breathing apparatus.

**6 ACCIDENTAL RELEASE MEASURES**

Avoid ignition sources.

**6.1 PERSONAL PRECAUTIONS**

Avoid direct contact with skin eyes and clothing. Do not breathe vapour.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Prevent contamination of soil drains and surface water.

**6.3 CLEAN UP METHODS**

Take up with wet absorbent inert material and place in a suitable container.

**DO NOT SEAL** - Keep damp in a safe ventilated area for several days before closing container for disposal

**7 HANDLING AND STORAGE**

**7.1 HANDLING**

Ensure good ventilation and local exhaust.

Avoid vapour formation and ignition sources.

Do not eat drink or smoke at work place.

**7.2 STORAGE**

In the original container tightly closed and dry at room temperature.

Avoid direct sunlight.

Keep away from food and drink.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1

	LONG TERM ( 8 HOUR TWA )		SHORT TERM ( 10 MIN )	
	ppm	mgm-3	ppm	mgm-3
4,4, -diphenylmethane diisocyanate		0.02		0.07 Sen*
Butylbenzyl phthalate		5		

**EXPOSURE CONTROL LIMITS**

\*Sen – capable of causing respiratory sensitisation.

## 8.2 SPECIAL PROTECTIVE MEASURES RESPIRATORY PROTECTION

Respiratory protection required in insufficiently ventilated working areas and during spraying an air-fed mask or for short periods of work a suitable ORI-NASAL respirator fitted with a combination filter of A2-P2 type is recommended.

### HAND PROTECTION

Impervious gloves with cotton liners.

### EYE PROTECTION

Goggles or face protection.

<b>APPEARANCE:</b>	Low viscosity coffee brown liquid	<b>MELTING POINT:</b>	
<b>ODOUR:</b>	Aromatic	<b>BOILING POINT:</b>	
<b>DENSITY:</b>	1.11-1.16	<b>OXODISING PROPERTIES:</b>	
<b>FLASH POINT:</b>		<b>VAPOUR PRESSURE:</b>	
<b>IGNITION:</b>		<b>FLAMMABILITY:</b>	Non flammable - will burn in fire situation
<b>SOLUBILITY IN WATER:</b>	Insoluble		
<b>pH-VALUE:</b>			
<b>VISCOSITY:</b>			

### SKIN PROTECTION

Wear overalls and closed footwear.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**10 STABILITY AND REACTIVITY**

**10.1 THERMAL DECOMPOSITION**

Thermal decomposition or burning may release oxides of carbon and nitrogen and toxic fumes of cyanide derivatives.

**10.2 CONDITIONS TO AVOID**

Prolonged storage at temperatures above 50°C.

**10.3 MATERIALS TO AVOID**

Water alcohols strong acids strong bases and strong oxidising agents as these can initiate uncontrolled polymerisation with evolution of heat and carbon dioxide with the

	4,4'-diphenylmethane diisocyanate	Butyl benzyl phthalate
LD 50 (Rats - ORAL TOXICITY)	15000mg/kg	20400mg/kg

risk of bursting closed containers owing to increase in pressure.

**10.4 HAZARDOUS DECOMPOSITION PRODUCTS**

**11 TOXICOLOGICAL INFORMATION**

**11.1**

**11.2 SKIN IRRITATION**

RABBIT - 8 hour exposure - slight reddening

### 11.3 EYE IRRITATION

RABBIT - 8 hour exposure - moderate reddening and slight swelling

### 11.4 LD 50 (RATS - INHALATION)

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## 12 ECOLOGICAL INFORMATION

Prevent contamination of soil drains or surface waters.

Reacts with water producing O<sub>2</sub> and forming a solid insoluble product

### 12.1 Butyl benzyl phthalate - Marine pollutant.

### 12.2 AQUATIC TOXICITY

Toxic to fish and algae - half life 2 days

EC 50 DAPHNIA MAGNA (24h) - 3.7mg/l

LC 50 RAINBOW TROUT (96h) - 3.3mg/l

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## 13 DISPOSAL INFORMATION

### 13.1 DISPOSAL OF PRODUCT

According to Local regulations.

### 13.2 DISPOSAL OF PACKAGING

Empty containers should be decontaminated prior to disposal by treating residues with 1% liquid detergent solution.

Fill the containers with detergent solution loosely cover and allow to stand in safe place for 48 hours. Dispose of neutralised residue and containers according to Local regulations.

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## 14 REGULATORY INFORMATION

14.1 CLASSIFICATION SYMBOL Xn

14.2 CHEMICAL IDENTITY EEC-NO

Diphenylmethane- 4 , 4, -diisocyanate, Butyl benzyl phthalate mixture.

14.3 RISK PHRASES

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes respiratory system and skin.

S26	In case of contact with eyes rinse immediately with plenty of water and seek medical attention
S28	After contact with skin wash immediately with plenty of soap and water and seek medical attention
S38	In case of insufficient ventilation wear suitable respiratory protection
S45	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

14.4 SAFETY PHRASES

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