

## TECHNICAL DATA SHEET

### CS10 PU Adhesive Sealant

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#### SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

##### 1.1 Product Identifier

Product name: CS10 Polyurethane Adhesive & Sealant  
Product Code: FL2006

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

Recommended use: Paint for metal  
Uses advised against: Not suitable for use in homeworke (DIY) applications.

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

Details of company: FLP Group  
Unit 1 Clayfields Industrial Estate  
Tickhill Road  
Doncaster  
DN4 8QG  
+44 (0) 1302 571571  
[sales@flpgroup.co.uk](mailto:sales@flpgroup.co.uk)

##### 1.4 Emergency telephone number

Emergency Tel: +44 (0) 1302 571571

#### SECTION 2: HAZARD IDENTIFICATION

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

Classification under CLP: Resp. Sens. 1 H334

##### 2.2 Label elements

Hazard statements: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
Signal words: Danger  
Hazard pictograms: G508: Health hazard



Precautionary statements: P261 Avoid breathing vapours.  
P284 In case of inadequate ventilation wear respiratory protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents and container in accordance with local regulations.  
Special Provisions: Wear protective gloves.  
Contains: Keep out of reach of children.  
isocyanates

##### 2.3 Other hazards

Other hazards: No other hazards know.  
PBT: This substance is not identified as a PBT substance.

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### SECTION 3: COMPOSITON/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

##### Hazardous ingredients:

EINECS	CAS	CLP Classification	Percent
polyvinyl chloride			
	9002-86-2		20-50%
xylene, mixture of isomers REACH No.: 01-2119488216-32			
215-535-7	1330-20-7	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	4-7%
titanium dioxide REACH No.: 01-2119489379-17			
236-675-5	13463-67-7		< 5%
calcium oxide REACH No.: 01-2119475325-36			
215-138-9	1305-78-8	Eye Dam. 1, H318; Skin Irrit. 2, H315	< 2%
Ethylbenzene REACH No.: 01-2119489370-35			
202-849-4	100-41-4	Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	< 2%
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics REACH No.: 01-2119456620-43			
		Asp. Tox. 1, H304	< 2%
diiron trioxide REACH No.: 01-2119489370-35			
215-168-2	1309-37-1		< 2%
calcium dihydroxide REACH No.: 01-2119475151-45			
215-137-3	1305-62-0	Eye Dam. 1, H318; Skin Irrit. 2, H315	< 1%
4,4'-methylenediphenyl diisocyanate REACH No.: 01-2119457014-47			
202-966-0	101-68-8	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	< 0.5%
carbon black REACH No.: 01-2119384822-32			
215-609-9	1333-86-4		< 0.5%

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

After inhalation:	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness, place patient stably in side position for transportation.
After skin contact:	Immediately wash with water and soap and rinse thoroughly.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.

#### 4.2 Most Important symptoms and effects, both acute and delayed

Drowsiness, Headache, Dizziness, Nausea

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

No further information available

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### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: CO<sub>2</sub>, powder extinguisher, foam.

Extinguishing media which must not be used for safety reasons: Water jet.

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

In case of fire, the following can be released: Carbon monoxide (CO), Nitrogen oxides (NO<sub>x</sub>). In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Hydrogen cyanide (HCN), Isocyanates

#### 5.3 Advice for fire-fighters

Wear self-contained respiratory protective device.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions:

Ensure adequate ventilation.

Keep away from ignition sources.

#### 6.2 Environmental precautions

Environmental precautions:

Do not allow product to reach sewage system or any water course.

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

Clean-up procedures:

Pick up mechanically. Send for recovery or disposal in suitable receptacles. Do not close them (reaction with water forming carbon dioxide).

#### 6.4 Reference to other sections

Reference to other sections:

Refer to section 8 & 13 of SDS

### SECTION 7: HANDLING & STORAGE

#### 7.1 Precautions for safe handling

Handling requirements:

Ensure good ventilation/exhaustion at the workplace.

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

Storage conditions:

Provide ventilation for receptacles.

Suitable packaging:

Keep receptacle tightly sealed. Store in dry conditions. Store in a cool place.

#### 7.3 Specific end use(s)

Specific end use(s):

No further relevant information available.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### 8.1 Control parameters

Components with limit values that require monitoring at the workplace:	
9002-86-2 polyvinyl chloride	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
1330-20-7 xylene, mixture of isomers	
WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
13463-67-7 titanium dioxide	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
1305-78-8 calcium oxide	



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WEL	Long-term value: 2 mg/m <sup>3</sup>
100-41-4 ethylbenzene	
WEL	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
RCP-TWA	Long-term value: 1200 mg/m <sup>3</sup>
VME	Long-term value: 1200 mg/m <sup>3</sup>
1309-37-1 diiron trioxide	
WEL	Short-term value: 10* mg/m <sup>3</sup> Long-term value: 5* 10** 4*** mg/m <sup>3</sup> *fume (as Fe), **total respirable, ***respirable
1305-62-0 calcium dihydroxide	
WEL	Long-term value: 5 mg/m <sup>3</sup>
101-68-8 4,4'-methylenediphenyl diisocyanate	
WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
1333-86-4 carbon black	
WEL	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3.5 mg/m <sup>3</sup>

Ingredients with biological limit values:	
1330-20-7 xylene, mixture of isomers	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

Additional information: The lists that were valid during the creation were used as basis.

#### 8.2 Exposure controls

General protective measures:	Avoid close or long term contact with the skin. Wash hands before breaks and at the end of work. Do not eat, drink, and smoke while working.
Respiratory equipment:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Short term filter device: Filter AB
Protection of hands:	PVA gloves of superior quality. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
Eye protection:	Tightly sealed goggles.
Body protection:	Protective work clothing.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance:	
Form:	Pasty
Colour:	Various colours
Odour:	Light
Change in condition	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	137 °C

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Flash point:	40-55°C (in closed cup)
Flammability (solid):	The product is not subject to classification because its speed of combustion is lower than the limit of the regulation.
Self-ignition temperature:	> 200 °C
Self-igniting:	Product is not self-igniting at room temperature.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible
Explosion limits:	
Lower:	0.6 Vol %
Upper:	7 Vol %
Density at 20°C:	1.16
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.

### 9.2 Other information

No further relevant information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Reactivity: No data available

### 10.2 Chemical stability

Chemical stability: No data available

### 10.3 Possibilities of hazardous reactions

Hazardous reactions: Reacts with alcohols, amines, aqueous acids and alkalis. Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.

### 10.4 Conditions to avoid

Conditions to avoid: No further relevant information available.

### 10.5 Incompatible materials

Materials to avoid: No further relevant information available.

### 10.6 Hazardous decomposition products

Hazardous decomposition products: No dangerous decomposition products known

## SECTION 11: TOXICAL INFORMATION

### 11.1 Information on toxicological effects

LD/LC50 values that are relevant for classification:		
1330-20-7 xylene, mixture of isomers		
Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
Inhalative	LD50/4h	6350 mg/l (rat)
100-41-4 ethylbenzene		
Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rbt)

### Primary irritant effect:

On the skin: No irritant effect.

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On the eye:	No irritating effect.
Sensitization:	Sensitization possible through inhalation.
Additional toxicological information:	Non-irritating to rabbit's eye (method: OECD guideline 405)

#### SECTION 12: ECOLOGICAL INFORMATION

##### 12.1 Toxicity

No further relevant information available.

##### 12.2 Persistence and degradability

No further relevant information available.

##### 12.3 Bio accumulative potential

No further relevant information available.

##### 12.4 Mobility in soil

No further relevant information available.

##### 12.5 Results of PBT and vPvB assessment

PBT identification:	This substance is not identified as a PBT substance
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##### 12.6 Other adverse effects

No further relevant information available.

#### SECTION 13: DISPOSAL CONSIDERATIONS

##### 13.1 Waste treatment methods

Recommendation:	Must be disposed of in an incinerator for hazardous waste according to official regulations.
Waste disposal key:	08 04 09*
Uncleaned packaging:	Disposal must be made according to official regulations.

#### SECTION 14: TRANSPORTATION INFORMATION

##### 14.1 UN number

UN number:	Void
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##### 14.2 UN proper shipping name

Shipping name:	Void
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##### 14.3 Transport hazard class

Transport class:	Void
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##### 14.4 Packaging group

Packing group:	Void
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##### 14.5 Environmental hazards

Environmentally hazardous:	No
Marine pollutant:	No

##### 14.6 Special precautions for user

Not applicable

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#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not classified as hazardous for transport as specified in paragraphs 2.2.41.1.5 of the ADR code, 2.4.2.2.2.1 of the IMDG code and 3.4.1.1.2.1 of the IATA code as the product is a solid and as its combustion speed is lower than 2.2 mm/s

### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out.

### SECTION 16: OTHER INFORMATION

Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in section 3:

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.