



# Material Safety Data Sheet

## PU Adhesive

### Section 1: Identification of the Product and Company Identification

Product Name: RubberBond Polyurethane (PU) Adhesive

Use of Substance: Adhesive

Suppliers Details: Flex-R Ltd.

Sandswood House,  
Hillbottom Road,  
Sands Industrial Estate,  
High Wycombe,  
Buckinghamshire.  
HP12 4HJ

Tel: 01494 448792 Fax: 01494 858433 Email: [enq@rubberbond.co.uk](mailto:enq@rubberbond.co.uk)

### Section 2: Hazards Identification

Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation.

**Classification under CHIP:** Xn: R40; Sens.: R42

Label elements under CHIP:

**Hazard symbols:** Harmful.



**Risk phrases:** R40: Limited evidence of a carcinogenic effect.

R42: May cause sensitisation by inhalation.

**Safety phrases:** S23: Do not breathe VAPOURS.

S36/37: Wear suitable protective clothing and gloves.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

S29/35: Do not empty into drains; dispose of this material and its container in a safe way.

**Precautionary phrases:** Contains isocyanates. See information supplied by the manufacturer.

Contains diphenylmethane-4,4'-di-isocyanate. May produce an allergic reaction.

**PBT:** This product is not identified as a PBT substance.

### Section 3: Composition/information on ingredients

Hazardous ingredients:

Name	Conc.	CAS	EINE CS	CLP Classification	CHIP Classification
DICHLOROMETHANE	10-30 %	75-09-2	200-838-9	Carc. 2: H351	Xn: R40
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	<1%	101-68-8	205-563-8	Carc. 2: H351; Acute Tox. 4: H332; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317; STOT SE 2: H371; STOT RE 2: H373	Xn: R20; Xi: R36/37/38; Xn: R40; Sens.: R42/43; Xn: R48/20

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### Section 4: First aid measures

**Skin contact:** Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist. There may be mild irritation at the site of contact.

**Eye contact:** Bathe the eye with running water for 15 minutes. There may be irritation and redness.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible. Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.

**Ingestion:** Wash out mouth with water. Consult a doctor. There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs.

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance.

### Section 5: Fire-fighting measures

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**Exposure hazards:** In combustion emits toxic fumes.

**Protective Equipment:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### Section 6: Accidental release measures

**Personal precautions:** If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

**Environmental precautions:** Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas. Contain the spillage using bunding.

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

### Section 7: Handling and storage

**Handling:** Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air.

**Storage conditions:** Store in cool, well-ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging..

### Section 8: Exposure controls/personal protection

#### Exposure limits:

Name	Std.		TWA – 8 hrs		STEL – 15 mins.
DICHLOROMETHANE	WEL	-	350 mg/m <sup>3</sup>	-	1060 mg/m <sup>3</sup>
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	WEL	-	0.02 mg/m <sup>3</sup>	-	0.07 mg/m <sup>3</sup>

WEL = Workplace Exposure Limits

**DNEL / PNEC:** No data available.

**Engineering measures:** Provide adequate general and local exhaust ventilation. Maintain efficient ventilation/extraction using flameproof equipment where necessary.

**Respiratory protection:** If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

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**Hand protection:** Impermeable gloves. Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves, for low exposure use nitrile gloves. The user has a legal duty to carry out a COSHH risk assessment to determine the correct glove.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Wear chemical protective clothing.

**Environmental:** No special requirement.

### Section 9: Physical and chemical properties

**Appearance:** Liquid  
**Colour:** Pink  
**Odour:** Characteristic odour  
**Evaporation rate:** Fast  
**Oxidising:** Non-oxidising (by EC criteria)  
**Relative density:** 1.1  
**Viscosity:** Viscous  
**Flammability Limit:** Upper(%) 13.0  
**Solubility in water:** Reacts in water.

### Section 10: Stability and Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

**Chemical stability:** Stable under normal conditions.

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

**Conditions to avoid:** Heat, sparks and open flame.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

### Section 11: Toxicological information

#### Toxicity Values:

Route	Species	Test	Value	Units
DERMAL	RAT	LD50	>2000	Mg/kg
ORAL	RAT	LD50	>2000	mg/kg

#### Relevant effects for mixture:

Effect	Route	Basis
Sensitisation	INH	Hazardous: calculated

**Inhalation:** Harmful, danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness.

**Ingestion:** There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs.

**Skin Contact:** There may be mild irritation at the site of contact.

**Eye Contact:** There may be irritation and redness.

**Inhalation:** Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.

**Delayed / immediate effects:** No data available.

**Other information:** Not applicable.

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### Section 12: Ecological Information

Species	Test	Value	Units
algae	NOEC	550	mg/l
marine aquatic invertebrates	48H EC50	109	mg/l
fresh aquatic invertebrates	48H EC50	27	mg/l
marine water fish	96H LC50	97	mg/l
fresh water fish	96H LC50	193	mg/l

**Persistence and degradability:** Biodegradable in part only.

**Bioaccumulative potential:** No data available.

**Mobility:** Volatile.

**PBT identification:** This product is not identified as a PBT substance.

**Other adverse effects:** No data available.

### Section 13: Disposal considerations

**Disposal operations:** Wet waste: Arrange for disposal by a licenced waste disposal company

**Disposal of packaging:** Arrange for disposal by a licenced waste disposal company

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Section 14: Transport information

**Proper Shipping Name:** TOXIC LIQUID, ORGANIC, N.O.S.

**Un No. Road:** 2810

**Transport class:** 6.1

**Packing group:** III

**Environmentally hazardous:** No

**Marine pollutant:** No

### Section 15: Regulatory information

**Specific regulations:** This product is classified as a mixture. CLP classification for information only.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

### Section 16: Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No453/2010.

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

#### Phrases used in s.2 and 3:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

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 (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

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H373: May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard.

R20: Harmful by inhalation.

R36/37/38: Irritating to eyes, respiratory system and skin.

R40: Limited evidence of a carcinogenic effect.

R42: May cause sensitisation by inhalation.

R42/43: May cause sensitisation by inhalation and skin contact.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Legal disclaimer:** The above information supplied in this MSDS is designed only as guidance for the safe use, storage and handling of the product. The 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. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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