



# Material Safety Data Sheet

## Bonding Adhesive

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

Product Name: RubberBond Bonding 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

Highly flammable. Vapours may cause drowsiness and dizziness. Irritating to skin. Possible risk of harm to the unborn child.

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (1999/45) Xn;R48/20. Repr. Cat. 3;R63. Xi;R38. F;R11. N;R50/53. R67.

### Section 3: Composition/information on ingredients

Hazardous ingredients:

Name	Conc.	CAS	EC No.	Classification
TOLUENE	30-60 %	108-88-3	203-625-9	F;R11 Repr.Cat.3;R63 Xn;R48/20, R65 Xi;R38 R67
HEPTANE	10-30%	142-82-5	205-563-8	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
BUTANONE	1-5%	78-93-3	201-159-0	F;R11 Xi;R36 R66 R67
ETHYL ACETATE	1-5%	141-78-6	205-500-4	F;R11 Xi;R36 R66 R67

The Full Text for all R-Phrases are Displayed in Section 16

Composition Comments: The product contains organic solvents.

### Section 4: First aid measures

**NOTE!** Keep affected person away from heat, sparks and flames!

**Skin contact:** May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical advice if symptoms persist.

**Eye contact:** May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

**Inhalation:** Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

**Ingestion:** Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory track and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this sheet or container label.

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### Section 5: Fire-fighting measures

**Extinguishing media:** Use an appropriate: carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam.

**Fire hazards:** Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control. Vapour may travel considerable distance to source of ignition and flash back.

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

Toxic gases/vapours/fumes of Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrogen chloride (HCl).

### Section 6: Accidental release measures

**Personal precautions:** Ensure adequate ventilation of the working area. Eliminate all sources of ignition. Wear suitable protective equipment.

**Environmental precautions:** Do not discharge into drains or rivers. Prevent further spillage if safe.

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean spillage area thoroughly with plenty of water.

### Section 7: Handling and storage

**Handling:** Avoid contact with skin and eyes. Ensure adequate ventilation of the working area. Use explosion proof equipment. Keep away from sources of ignition – No smoking. Adopt best Manual Handling considerations when handling, carrying and dispensing.

**Storage conditions:** Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry and cool place. Keep in original container.

**Storage class:** Flammable liquid storage.

### Section 8: Exposure controls/personal protection

**Exposure limits:**

Name	Std.	TWA – 8 hrs		STEL – 15 mins.	
Butanone	WEL	200pm	600 mg/m <sup>3</sup>	300 ppm	899 mg/m <sup>3</sup>
Ethyl Acetate	WEL	400 ppm	1460 mg/m <sup>3</sup>		
Heptane	WEL	500 ppm			
Toluene	WEL	50ppm (Sk)	191 mg/m <sup>3</sup> (Sk)	100 ppm (Sk)	384 mg/m <sup>3</sup> (Sk)

WEL = Workplace Exposure Limits

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

**Respiratory protection:** Respiratory protection must be used if air contamination exceeds acceptable level.

**Hand protection:** Chemical resistant 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.

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

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### Section 9: Physical and chemical properties

<b>Appearance:</b>	Liquid	
<b>Colour:</b>	Amber	
<b>Odour:</b>	Pungent Organic solvents.	
<b>Boiling Point:</b>	110°C	<b>Relative density:</b> 0.85 - 0.88 @ 20 °c
<b>Flash Point:</b>	-5°C	<b>Viscosity:</b> 6000-6500 cps @ 23 °c
<b>Flammability Limit:</b>	Lower(%) 1.0	<b>Flammability Limit:</b> Upper(%) 13.0
<b>Solubility in water:</b>	Insoluble in water.	

### Section 10: Stability and Reactivity

**Chemical stability:** Stable under normal conditions.  
**Conditions to avoid:** Heat, sparks and open flame. Hazardous Decomposition Products  
**Fire creates:** Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### Section 11: Toxicological information

**Inhalation:** Harmful, danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness.  
**Ingestion:** May cause stomach pain or vomiting.  
**Skin Contact:** Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to skin.  
**Eye Contact:** Particles in the eyes may cause irritation and smarting.  
**Inhalation:** Skin absorption.  
Medical Symptoms; High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.  
Specific Effects; Contains a substance/a group of substances which may cause harm to the unborn child.

### Section 12: Ecological Information

**Ecotoxicity:** Dangerous for the environment if discharged into watercourses. The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.  
**Mobility:** The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.  
**Bioaccumulation:** The product does not contain any substances expected to be bioaccumulating.  
**Degradability:** The product is potentially degradable.

### 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.

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### Section 14: Transport information



UK ROAD CLASS 3

**Proper Shipping Name:** Adhesives (Heptane)

**Un No. Road:** 1133

**Adr Class No.:** 3

**Adr Pack Group:** III

**Hazard No. (Adr):** 30

**Hazchem Code:** •3YE

**RID Class NO.:** 3

**UN NO. SEA:** 1133

**IMDG Page NO.:** 3

**EM:** F-E, S-D

**AIR CLASS:** 3

**UK Road Pack Gr.:** III

**Adr Class:** Class 3: Flammable Liquids.

**Tunnel Restriction Code:** (D/E)

**Adr Label No.:** 3

**CEFIC TEC(R) NO.:** 30GF1-III, 30GF1-sp

**RID Pack Group:** III

**IMDG Class:** 3

**IMDG Pack GR.:** III

**UN NO. AIR:** 1133

**Air Pack GR.:** III

### Section 15: Regulatory information

#### LABELLING



Harmful



Highly Flammable



Dangerous for the environment

#### CONTAINS TOLUENE

##### Risk Phrases

R11 – Highly flammable

R38 – Irritating to skin

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

R50/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R63 – Possible risk of harm to the unborn child.

R67 – Vapours may cause drowsiness and dizziness.

##### Safety Phrases

S9 – Keep container in a well-ventilated place.

S16 – Keep away from sources of ignition - No smoking.

S24 – Avoid contact with skin.

S36/37 – Wear suitable protective clothing and gloves.

S51 – Use only in well-ventilated areas

**UK Regulatory References:** Petroleum (Consolidation) Act, as amended 1984 SI 1244.

**Environmental Listing:** Control of Pollution Act 1974.

**EU Directives:** Dangerous Substance Directive 67/548/EEC.

**Statutory Instruments:** Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

**Approved Code Of Practice:** Classification and Labelling of Substances and Preparations Dangerous for Supply.

**Guidance Notes:** Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

**National Regulations:** Control of Substances Hazardous to Health Regulations 2002 (as amended)

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### Section 16: Other information

#### Text of risk phrases in Section 3

R11 – Highly flammable

R38 – Irritating to skin

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

R50/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R63 – Possible risk of harm to the unborn child.

R67 – Vapours may cause drowsiness and dizziness.

#### SAFETY PHRASES

S9 – Keep container in a well-ventilated place.

S16 – Keep away from sources of ignition - No smoking.

S24 – Avoid contact with skin.

S36/37 – Wear suitable protective clothing and gloves.

S51 – Use only in well-ventilated areas.

**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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