



Material Safety Data Sheet

Two Part Pourable Sealer (Part B)

Section 1: Identification of the Product and Company Identification

Product Name: RubberBond Two Part Pourable Sealer-Part B

Use of Substance: Curative for Curable Sealer Part A

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

Section 2: Hazards Identification

Primary Entry Routes: Skin contact, skin absorption, eye contact, inhalation, ingestion.

Target Organs:

Acute Effects

Inhalation: Excessive exposure may cause irritation to upper respiratory tract and lungs and pulmonary edema (fluid in the lungs). May cause allergic respiratory response. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, difficulty breathing and a feeling of tightness in the chest. Effects may be delayed.

Eye: May cause slight temporary corneal injury.

Skin: Prolonged contact may cause moderate skin irritation with local redness. Material may stick to skin causing skin irritation upon removal. Skin contact may cause an allergic skin reaction. Animal studies have shown that skin contact with isocyanates may play a role in respiratory sensitization.

Ingestion: Ingestion can cause gastrointestinal irritation.

Carcinogenicity: IARC, NTP, and OSHA do not list this product as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure:

Chronic Effects: Breathlessness, chest discomfort, reduced pulmonary function, skin rash. The manifestations of respiratory symptoms may be delayed. Allergic skin sensitization may occur in some individuals. Decreased ventilatory capacity is possible. Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated exposures to MDI.

Section 3: Composition/information on ingredients

Ingredients	Con c.	CAS	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
			TWA	STEL	TWA	STEL	TWA	STEL	
Diphenylmethane 4,4'-Diisocyanate (MDI)	30-60 %	101-68-8 & 026447-40-5	N/E	N/E	0.005 ppm / 0.051 mg/m ³	N/E	0.005 ppm 0.05 mg/m ³	N/E	750 mg/m ³ (in ppm)
Diphenylmethane 4,4'-Diisocyanate (Homo-polymer)	10-30 %	039310-05-9	N/E	N/E	N/E	N/E	N/E	N/E	N/E
Terphenyls	0.1-1%	26140-60-3	N/E	N/E	N/E	N/E	N/E	N/E	500 mg/m ³
Additional Ingredients			Conc.				CAS		
Hydrogenated Terphenyls							61788-32-7		

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Section 4: First aid measures

Inhalation: Remove to fresh air; give oxygen; call physician.

Eye Contact: Flush with water for at least 15 minutes; remove contact lenses, if present, after first 5 minutes. Obtain medical attention.

Skin Contact: Wash with soap and water, rubbing alcohol is helpful. If rash develops, consult physician and avoid re-exposure to product.

Ingestion: Do not induce vomiting; call physician immediately.

Note to Physicians: The manifestations of respiratory symptoms resulting from acute exposure may be delayed. May cause respiratory sensitization or asthma like symptoms. Bronchodilators, expectorants and antitussives may help. Excessive exposure may aggravate pre-existing asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

Section 5: Fire-fighting measures

Flash Point: >117°C

LEL: Not determined.

Flash Point Method: COC

UEL: Not determined.

Auto ignition Temperature: Not determined.

Flammability Classification: Not flammable.

Extinguishing Media: In case of fire, use dry chemical, carbon dioxide, or foam. Water may not be effective as an extinguishing agent. Water fog or spray may be used to provide smothering effect on fire and to cool fire-exposed containers and surrounding combustibles. Do not use a solid stream of water because it can scatter and spread the fire. NOTE: Water may react vigorously with hot product.

Unusual Fire or Explosion Hazards: In case of fire, evacuate all down-wind personnel. If product becomes contaminated, do not reseal containers as pressure build-up may rupture them.

Hazardous Combustion Products: Isocyanate vapour, carbon dioxide, carbon monoxide, nitrogen oxides, traces of hydrogen cyanide.

Fire-Fighting Instructions: Fire fighters should wear self-contained breathing apparatus and full protective clothing. Do not breathe smoke or vapours given off by burning material.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6: Accidental release measures

Spill /Leak Procedures: Evacuate and ventilate area. Blanket with protein foam to control vapors. Soak up spillage with absorbent material. Transfer to open top containers in well-ventilated area, and neutralize with a 10% mixture of Ammonium Hydroxide in water for 48 hours, allowing CO₂ to escape.

Large Spills:

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Clean-up: Dispose of in accordance with all local, state and federal regulations.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7: Handling and storage

Handling Precautions: Avoid skin and eye contact. Avoid breathing vapors or mist. Use with adequate ventilation.

Storage Requirements: Store above 5°C (40°F). Avoid mixture contamination. Keep container closed when not in use.

KEEP OUT OF REACH OF CHILDREN.

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Section 8: Exposure controls/personal protection

Engineering Controls: Do not use in enclosed areas without proper ventilation. General and local exhaust ventilation must be sufficient to control airborne levels below the exposure guideline of 0.02 ppm.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: A NIOSH approved respirator recommended if working in a tightly enclosed area.

Protective Clothing/Equipment: Permeation resistant gloves (that meet ANSI/ISEA 105-2005) recommended. Safety glasses or goggles recommended. Rubber boots or industrial shoes to protect feet from contact with product. Long sleeves, long trousers to protect skin from contact with product. Protective skin creams or emollients useful.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9: Physical and chemical properties

Physical State: Liquid.

Appearance and Odour: Yellow oil liquid, very mild odour.

Odour Threshold: Not available.

Vapour Pressure: 0.001 mm Hg at 40°C (104°F)

Vapour Density (Air=1): Heavier than air.

Specific Gravity (H₂O=1, at 4 °C): 1.09-1.14

pH: N/A

Water Solubility: Reacts with water.

Boiling Point(°C): 90-93°C (194-199°F) @ 5mm

Freezing/Melting Point(°C): >0 (>32°F)

% Volatile: less than 1

Evaporation Rate(nBuAc=1): N/A

VOC: Less than 10 gpl

Flash Point: 350°F (>177°C)

Flash Point Method: COC

Auto ignition Temperature: Not determined.

LEL: Not determined

UEL: Not determined

Section 10: Stability and Reactivity

Stability: Stable.

Possibility of Hazardous Reactions: Will not occur.

Chemical Incompatibilities: Strong oxidizing agents, strong acids.

Conditions to Avoid: Oxidizing conditions, extreme temperatures.

Hazardous Decomposition Products: Small quantities of butadiene, along with carbon monoxide and carbon dioxide, may be released during a fire.

Section 11: Toxicological information

Eye Effects: Irritating

Skin Effects: Irritating

Toxicity Data:

Acute Inhalation Effects: Product toxicity has not been determined.

Acute Oral Effects: Product toxicity has not been determined.

Chronic Effects: Allergic skin sensitization may occur in some individuals. Decreased ventilatory capacity is possible.

Carcinogenicity: No evidence

Mutagenicity: MDI has shown positive in some invitro tests.

Teratogenicity: No evidence.

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Section 12: Ecological Information

Ecotoxicity: N/A
Environmental Fate: N/A
Environmental Degradation: N/A
Soil Absorption/Mobility: N/A

Section 13: Disposal considerations

Disposal: If this product becomes a waste, it would not be a hazardous waste by RCRA criteria. Place in an appropriate disposal facility in compliance with local regulations.

Section 14: Transport information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not Regulated	Packaging Authorizations	Quantity Limitations
Shipping Symbols: None	a) Exceptions: n/a	a) Passenger, Aircraft, or Railcar: n/a
Hazard Class: None	b) Non-bulk Packaging: n/a	b) Cargo Aircraft Only: n/a
ID No.: None	c) Bulk Packaging: n/a	Vessel Stowage Requirements
Packing: None		a) Vessel Stowage: n/a
Label: None		b) Other: n/a
Special Provisions (172.102): n/a		

Section 15: Regulatory information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification : Not classified

TSCA (Toxic Substances Control Act) Status: TSCA (United States) – The intentional ingredients of this product are listed.

CERCLA Hazardous Substance RQ – 40 CFR 302.4 (a)

Component	RQ (lbs.)
Diphenylmethane 4,4'-Diisocyanate (MDI)	5000

SARA 311/312 Codes: Immediate (X) Delayed (X) Fire () Reactive () Sudden Release of Pressure ()

SARA 313 Components (40 CFR 372.65): Not listed

Section 313 Component(s)	CAS Number	%
Diphenylmethane 4,4'-Diisocyanate (MDI)	101-68-8	30 – 60

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29 CFR 1910): None listed

EPA Accidental Release Prevention (40 CFR 68): None listed

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Section 16: Other information

Prepared By: Research & Development

Revision Notes: General Revision

Additional Hazard Rating Systems:

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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