

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product Identifier

**Product name:** RIM 180FR-B  
**Product code:** RIM 180FR-B

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

**Use of substance:** PC32: Polymer preparations and compounds.

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

**Company Name:** Ru-bix Tooling Board  
Venus Court  
Hardwick Industrial Estate  
King's Lynn  
Norfolk  
PE30 4HY  
United Kingdom  
**Telephone:** 01485 313 020  
**Email:** [ash.colvin@ru-bix.com](mailto:ash.colvin@ru-bix.com)

### 1.4 Emergency telephone number

**Emergency telephone:** 01485 313 020 (office hours only)

## Section 2: Hazards identification

### 2.1 Classification of a substance or mixture

**Classification under CLP:** Resp. Sens. 1: H334; STOT RE 2: H373; Acute Tox. 4: H332; Aquatic Chronic 2: H411; Carc. 2: H351; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335

**Most important adverse effects:** Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.  
Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

## RIM 180FR-B

### 2.2. Label elements

**Label elements:**

**Hazard statements:** 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.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 H411: Toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS07: Exclamation mark  
 GHS08: Health hazard  
 GHS09: Environmental



**Signal words:** Danger

**Precautionary statements:** P260: Do not breathe dust/fumes/gas/mist/vapours/spray.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+352: IF ON SKIN: Wash with plenty of water/soap and water.  
 P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

**Other hazards:** Danger of serious damage to health by prolonged exposure.  
**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

**Hazardous ingredients:**

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

EINECS	CAS	PBT/WEL	CPL Classification	Percent
-	9016-87-9	-	Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	>20%

**SAFETY DATA SHEET**  
**RIM 180FR-B**

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE – REACH registered number(s): 01-2119457014- 47

202-966-0	101-68-8	-	Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	>20%
-----------	----------	---	---	------

REACTION MASS OF 4,4'MDI & 2,4'MDI – REACH registered number(s): 01-2119457015- 45

-	-	-	Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Sens. 1: H317; Carc. 2: H351; STOT RE 2: H373	5-20%
---	---	---	--	-------

## Section 4: First Aid measures

### 4.1. Description of First Aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.  
Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.  
Consult a doctor.
- Eye Contact:** Bathe the eye with running water for 15 minutes.  
Consult a doctor.
- Ingestion:** Wash out mouth with water.  
Do not induce vomiting.  
If conscious, give half a litre of water to drink immediately.  
Consult a doctor.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.  
Consult a doctor.

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

- Skin contact:** There may be mild irritation at the site of contact.
- Eye Contact:** There may be irritation and redness
- Ingestion:** There may be soreness and redness of the mouth and throat.  
Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.
- Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.  
Drowsiness or mental confusion may occur.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Not applicable.

# SAFETY DATA SHEET

## RIM 180FR-B

### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

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

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

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

#### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus.  
Wear protective clothing to prevent contact with skin and eyes.

### Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind.  
Mark out the contaminated area with signs and prevent access to unauthorised personnel.  
Turn leaking containers leak-side up to prevent the escape of liquid.  
If outside keep bystanders upwind and away from danger point.  
Evacuate the area immediately.

#### 6.2. Environmental precautions

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

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

**Clean-up procedures:** Absorb into dry earth or sand.  
Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

#### 6.4. Reference to the other sections

**Refer to the other sections:** Refer to section 8 of SDS.

### Section 7: Handling and storage

#### 7.1. Precaution for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area. Do not handle in a confined space.  
Avoid the formation or spread of mists in the air.

# SAFETY DATA SHEET

## RIM 180FR-B

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

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

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

#### DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

Workplace exposure limits:			Respirable dust:	
State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	-	-

#### DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

UK	0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	-	-
----	------------------------	------------------------	---	---

### DNEL/PNEC Values

**DNEL/PNEC:** No data available

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency

**Hand protection:** Impermeable gloves.

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

**Skin protection:** Impermeable protective clothing.

**Environmental:** The floor of the storage room must be impermeable to prevent the escape of liquids.

## Section 9: Physical and chemical properties

### 9.1. Information on basic and chemical properties

**State:** Liquid

**Colour:** Pale brown

**Odour:** Barely perceptible odour

**Evaporation rate:** Negligible

**Solubility in water:** Reacts with water

**Viscosity:** Non-viscous

**Kinematic viscosity:** ≤20.5

**Viscosity test method:** Kinematic viscosity in 10<sup>-6</sup> m<sup>2</sup>/s at 40°C (ISO 3104/3105)

**Flash point °C:** >93

**Relative density:** 1.13 g/cm<sup>3</sup> at 20°C

**SAFETY DATA SHEET**  
**RIM 180FR-B**

**9.2. Other Information**

**Other information:** No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

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

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

**Conditions to avoid:** Heat, hot surfaces and flames.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidizing agents and strong acids.

**10.6. Hazardous decomposition products**

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

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Hazardous ingredients:**

**DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)**

ORL	RAT	LD50	49	mg/kg
SKN	RBT	LD50	>9400	mg/kg

**DIPHENYLMETHANE-4,4'-DI-ISOCYANATE**

ORL	MUS	LD50	2200	mg/kg
ORL	RAT	LD50	9200	mg/kg

**Relevant hazards for product:**

Hazard	Route	Basis
Acute toxicity (ac. Tox. 4)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitization	INH DRM	Hazardous: calculated
Carcinogenicity	-	Hazardous: calculated
STOT - single exposure	INH	Hazardous: calculated
STOT - repeated exposure	-	Hazardous: calculated

**SAFETY DATA SHEET**  
**RIM 180FR-B**

**11.2. Symptoms/routes of exposure**

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

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

**Ingestion:** There may be soreness and redness of the mouth and throat.  
Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.  
Drowsiness or mental confusion may occur.

**Delayed/immediate effects:** Immediate effects can be expected after short-term exposure.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** No data available.

**12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

**Other adverse effects:** Negligible ecotoxicity.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialized disposal company.

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

**SAFETY DATA SHEET**  
**RIM 180FR-B**

**Section 14: Transport information**

**14.1. Transport class**

**Transport class:** This product does not require a classification for transport.

**Section 15: Regulatory information**

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

**Specific regulations:** Not applicable.

**15.2. Chemical safety assessment**

**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**

**16.1. Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

**Phrases used in s.2 and s.3:** H304: May be fatal if swallowed and enters airways.  
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.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.

**Legal disclaimer:** Recommendations and technical information are provided in good faith, based on current knowledge and experience. However, due to variations in storage conditions, storage period, substrates and site conditions, no warranty in respect of fitness for purpose can be inferred from this information. The user must test the product's suitability for the intended application. Ru-bix Tooling Board is happy to provide free-issue samples for this purpose. All orders are accepted subject to our current terms of sale, a copy of which can be obtained from the Ru-bix office.