

**SAFETY DATA SHEET**  
according to 1907/2006/EC, Article 31

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**Resin 8052 B**

Revision 0

Revision date 2011-12-06

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name** Resin 8052 B

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

<b>Company</b>	Renishaw plc
<b>Address</b>	Whitebridge Way, Whitebridge Park, Stone, Staffordshire ST15 8LQ United Kingdom
<b>Web</b>	www.renishaw.com
<b>Telephone</b>	+44 (0)1785 815651
<b>Fax</b>	+44 (0)1785 812115
<b>Email</b>	msds@renishaw.com
<b>Email address of the competent person</b>	msds@renishaw.com

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**2.1.1. Classification - 1999/45/EC** Xn; R20-40-42/43-48/20 Xi; R36/37/38

Symbols: Xn: Harmful.

**Main hazards**

Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**2.2. Label elements**

**Symbols**

Xn: Harmful.



**Risk phrases**

R20 - Harmful by inhalation.  
R36/37/38 - Irritating to eyes, respiratory system and skin.  
R40 - Limited evidence of a carcinogenic effect.  
R42/43 - May cause sensitisation by inhalation and skin contact.  
R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Safety phrases**

S23 - Do not breathe gas/fumes/vapour/spray.  
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).  
S60 - This material and its container must be disposed of as hazardous waste.

**SECTION 3: Composition/information on ingredients**

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## 3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
4,4'-Methylenediphenyl diisocyanate	615-005-00-9	101-68-8	202-966-0		50 - 60%	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Seek medical attention if irritation or symptoms persist.

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

Inhalation	Harmful by inhalation.
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

	If you feel unwell, seek medical advice (show the label where possible).
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## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Water. Dry chemical. Carbon dioxide (CO <sub>2</sub> ).
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## 5.2. Special hazards arising from the substance or mixture

	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide. Nitrogen oxide. Hydrogen Cyanide.
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## 5.3. Advice for firefighters

	Self-contained breathing apparatus.
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## SECTION 6: Accidental release measures

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

	See section 8 for further information.
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## 6.2. Environmental precautions

	Do not allow runoff water to enter sewers or drains.
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## 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Contact a licensed waste disposal company. Dispose of this material and its container to hazardous or special waste collection point.
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## 6.4. Reference to other sections

	See section 12 and 13 for further information.
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## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

	Keep container tightly closed in a cool place. Keep away from sources of ignition - No smoking.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Do not allow runoff water to enter sewers or drains. Keep container tightly closed and dry.
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## 7.3. Specific end use(s)

In case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1. Exposure Limit Values

Resin 8052 B	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.02
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 0.07

## 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area. Keep containers tightly closed. Keep in a cool, dry, well ventilated area.
8.2.2. Individual protection measures	Approved safety goggles. Protective clothing. Appropriate respiratory protection.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Nitrile rubber gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	Suitable respiratory equipment.
8.2.3. Environmental exposure controls	Appropriate local exhaust ventilation is required.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Amber
Odour	Characteristic
pH	No data available
Melting point	No data available
Freezing Point	No data available
Evaporation rate	No data available
Flammability limits	No data available
Vapour Flammability	No data available
Vapour pressure	No data available
Vapour density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive	No data available
Oxidising	No data available
Boiling point	> 200 °C
Flash point	> 200 °C
Relative density	= 1.19 (Water = 1 @ 20 °C)
Solubility	= Miscible in water

## 9.2. Other information

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## 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

## SECTION 10: Stability and reactivity

## 10.2. Chemical stability

Exothermic reaction with amins and alcohols, reacts with water forming carbon dioxide.

## 10.4. Conditions to avoid

Moisture. Keep only in the original container at a temperature not exceeding 80 °C.

## 10.5. Incompatible materials

Water. Avoid contact with: Amines, alcohols.

## 10.6. Hazardous decomposition products

Combustion may form carbon dioxide, CO, Nitrogen oxide and hydrogen cyanide.

## SECTION 11: Toxicological information

## 11.1.4. Toxicological Information

Resin 8052 B	Oral Mouse LD50: 2200
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## SECTION 12: Ecological information

## 12.1. Toxicity

No data available

## 12.2. Persistence and degradability

No data is available on this product.

## 12.3. Bioaccumulative potential

No data is available on this product.

## 12.4. Mobility in soil

No data is available on this product.

## 12.5. Results of PBT and vPvB assessment

Not relevant.

## SECTION 13: Disposal considerations

## General information

Preferred method is by reaction with the complementary component A to form the product polyurethane, which can be disposed of a solid waste.

## Disposal methods

Can be incinerated if in compliance with local authority regulations.

## SECTION 14: Transport information

## ADR/RID

The product is not classified as dangerous for carriage.

## IMDG

The product is not classified as dangerous for carriage.

## IATA

The product is not classified as dangerous for carriage.

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
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**15.2. Chemical safety assessment**

	R20 - Harmful by inhalation. R36/37/38 - Irritating to eyes, respiratory system and skin. R42/43 - May cause sensitisation by inhalation and skin contact. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 - After contact with skin, wash immediately with plenty of water. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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**SECTION 16: Other information****Other information**

<b>Text of risk phrases in Section 3</b>	P102 - Keep out of reach of children. P103 - Read label before use. P14 - Safety data sheet available for professional user on request. P15 - Restricted to professional users.
	R20 - Harmful by inhalation. R36/37/38 - Irritating to eyes, respiratory system and skin. R40 - Limited evidence of a carcinogenic effect. R42/43 - May cause sensitisation by inhalation and skin contact. R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.