

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

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Resin 6130 B

Revision 0

Revision date 2012-04-23

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

1.1. Product identifier

Product name Resin 6130 B

1.3. Details of the supplier of the safety data sheet

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

S22 - Do not breathe dust.
S23 - Do not breathe gas/fumes/vapour/spray.
S24 - Avoid contact with skin.
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.

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SECTION 3: Composition/information on ingredients**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		70 - 80%	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**

	Dry chemical. Carbon dioxide (CO2).
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5.2. Special hazards arising from the substance or mixture

	Carbon dioxide (CO2). 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. Protect from frost.
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7.3. Specific end use(s)

	In case of insufficient ventilation, wear suitable respiratory equipment.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Resin 6130 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.
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8.2.2. Individual protection measures

	Approved safety goggles. Protective clothing. Appropriate respiratory protection.
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Eye / face protection

	Approved safety goggles.
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Skin protection -

	Nitrile rubber gloves.
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Handprotection

Skin protection - Other

	Wear suitable protective clothing.
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Respiratory protection

	Suitable respiratory equipment.
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8.2.3. Environmental exposure controls

	Appropriate local exhaust ventilation is required.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Colourless
Odour	Characteristic
pH	No data available
Melting point	Not determined
Freezing Point	Not determined
Boiling point	> 260 °C
Flash point	> 180 °C
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
Relative density	= 1.14 (Water = 1 @ 20 °C)
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive	Not applicable.
Oxidising	No data available
Solubility	= Immiscible in water

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 amines and alcohols, reacts with water forming carbon dioxide.

10.4. Conditions to avoid

Moisture. Stable at environment temperature.

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. Information on toxicological effects

Skin corrosion/irritation	Irritant to skin and mucous membranes.
Serious eye damage/irritation	Irritating effect.
Respiratory or skin sensitisation	Sensitizer, Lungs. Sensitizer, Skin.

11.1.4. Toxicological Information

Resin 6130 B	Oral Mouse LD50: 2200
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SECTION 12: Ecological information**12.1. Toxicity**

No data available

12.2. Persistence and degradability

Not readily biodegradable.

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**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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.

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

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.

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. S38 - In case of insufficient ventilation, wear suitable respiratory equipment. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 16: Other information**Other information****Text of risk phrases in Section 3**

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.
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Other information

R42/43 - May cause sensitisation by inhalation and skin contact.
R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This 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.