

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

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Resin SG 50 B

Revision 0

Revision date 2013-02-22

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

1.1. Product identifier

Product name	Resin SG 50 B
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU0] Other; [PC0] Other; [PROC19] Hand-mixing with intimate contact and only PPE available;
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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

1.4. Emergency telephone number


Emergency telephone number	+44 (0)1785 815651
Company	MSDS Renishaw 0800-1700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xn; R42/43 Xi; R36/37/38 Symbols: Xn: Harmful.
Main hazards	Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

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.

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2.2. Label elements

Safety phrases	S2 - Keep out of the reach of children. S23 - Do not breathe gas/fumes/vapour/spray. S36/37 - Wear suitable protective clothing and gloves. S46 - If swallowed, seek medical advice immediately and show this container or label. 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
DIPHENYLMETHANE DIISOCYANATE					60 - 70%	
Diphenylmethane-4,4'-di-isocyanate	615-005-00-9	101-68-8	202-966-0		10 - 20%	Xn; R20 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 ₂).
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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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 8,12,13 for further information.

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.

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.

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 SG 50 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

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9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Brown
Odour	Odourless
pH	No data available
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	> 93 °C
Evaporation rate	No data available
Flammability limits	Not relevant
Vapour Flammability	Not relevant
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	> 600 °C
Viscosity	Not relevant
Explosive	No data available
Oxidising	Not relevant
Solubility	Not relevant

9.2. Other information

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

SECTION 10: Stability and reactivity

10.2. Chemical stability

Stable under normal conditions.

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. Information on toxicological effects

Serious eye damage/irritation	Irritant.
Respiratory or skin sensitisation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.

11.1.4. Toxicological Information

Resin SG 50 B	Oral Rat LD50: 49gm/kg	Dermal Rabbit LD50: >9400mg/kg
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SECTION 12: Ecological information

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12.1. Toxicity

	No data available
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12.2. Persistence and degradability

	No data is available on this product.
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12.3. Bioaccumulative potential

	No data is available on this product.
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12.4. Mobility in soil

	No data is available on this product.
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12.5. Results of PBT and vPvB assessment

	Not relevant.
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SECTION 13: Disposal considerations

Disposal methods

	Can be incinerated if in compliance with local authority regulations.
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SECTION 14: Transport information

ADR/RID

	The product is not classified as dangerous for carriage.
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IMDG

	The product is not classified as dangerous for carriage.
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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

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.
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15.2. Chemical safety assessment

	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 . H371 - May cause damage to organs . H373 - May cause damage to organs through prolonged or repeated exposure . 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.
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SECTION 16: Other information

Other information

	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.
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Text of risk phrases in Section 3

R20 - Harmful by inhalation.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R42/43 - May cause sensitisation by inhalation and skin contact.

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
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Further information

	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.
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