

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

Resin 8160 B

Revision 0

Page 1/6

Revision date 2012-06-08

	Revision date 2012-06-08
	f the substance/mixture and of the company/undertaking
1.1. Product identifier	1
Product name	Resin 8160 B
1.3. Details of the supplier of the	e 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	msds@renishaw.com
competent person	
1.4. Emergency telephone num	ber
Emergency telephone	+44 (0)1785 815651
number	
Company	MSDS Renishaw
	0800-1700
SECTION 2: Hazards identit	fication
2.1. Classification of the substa	ince or mixture
2.1.1. Classification -	Xn; R20-40-42/43-48/20 Xi; R36/37/38
1999/45/EC	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
2.2. Label elements	serious damage to health by prolonged exposure through inhalation.
	Ver Harrefel
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.
Safaty phrases	R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Safety phrases	S22 - Do not breathe dust.



Revision 0 **Revision date** 2012-06-08

22	l abel	elements
<u> </u>	Laber	CICILICIILO

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.

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
Methylenediphenyl diisocyanate	615-005-00-9	26447-40-5	247-714-0			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. DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Seek medical attention if irritation or Ingestion symptoms persist. 4.2. Most important symptoms and effects, both acute and delayed Harmful by inhalation. 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) SECTION 5: Firefighting measures 5.1. Extinguishing media

Water. Dry chemical. Carbon dioxide (CO2)

5.2. Special hazards arising from the substance or mixture

Carbon oxides. Hydrogen cyanide. Nitrogen oxides. may be formed in fire conditions.

5.3. Advice for firefighters

Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

 See section 8 for further information.

 6.2. Environmental precautions

Do not allow runoff water to enter sewers or drains

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.



6.4. Reference to other sections	3
	See section 12 and 13 for further information.
SECTION 7: Handling and st	torage
7.1. Precautions for safe handling	ng
	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 contr	ols/personal protection
8.2. Exposure controls	
8.2.1. Appropriate	Ensure adequate ventilation of the working area. Keep containers tightly closed. Keep in a cool,
engineering controls	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



9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Yellow
Odour	Mild
pH	No data available
Melting point	Not determined
Freezing Point	Not determined
Boiling point	Not determined
Flash point	> 200 °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	= 1.19 (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	= Miscible 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)	

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, C0, Nitrogen oxide and hydrogen cyanide.	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Skin corrosion/irritation	Irritating to skin.	
Serious eye damage/irritation	Irritating to eyes.	
Respiratory or skin	Sensitizer, Lungs. Sensitizer, Skin.	
constitution		
sensitisation		
11.1.4. Toxicological Informatio	n	
	n Oral Mouse LD50: 2200	

Revision 0

Revision date 2012-06-08

SECTION 12: Ecological information			
12.1. Toxicity			
	No data available		
12.2. Persistence and degradab	ility		
	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 cons	iderations		
General information			
	Dispose of this material and its container to hazardous or special waste collection point. Do not empty into drains; dispose of this material and its container in a safe way.		
Disposal methods			
	Dispose of as special waste in compliance with. Local and national regulations.		
SECTION 14: Transport info	mation		
ADR/RID			
	The product is not classified as dangerous for carriage.		
IMDG			
	The product is not classified as dangerous for carriage.		
ΙΑΤΑ			
	The product is not classified as dangerous for carriage.		
SECTION 15: Regulatory info	ormation		
	mental 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 assessme	ent		
	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 - Danger of serious damage to health by prolonged exposure. S23 - Do not breathe gas/fumes/vapour/spray. S36/37 - Wear suitable protective clothing and gloves. 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 informat	ion		
Other information			
Text of risk phrases in	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.		
Section 3	R36/37/38 - Irritating to eyes, respiratory system and skin. R40 - Limited evidence of a carcinogenic effect.		



 Revision
 0

 Revision date
 2012-06-08

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.	

