

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

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Resin 3176 / 3116 B

Revision 0

Revision date 2013-04-24

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

1.1. Product identifier

Product name Resin 3176 / 3116 B

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;

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

Main hazards No Significant Hazard

2.2. Label elements

Symbols Xn: Harmful.



Risk phrases No Significant Hazard.
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 S2 - Keep out of the reach of children.
S23 - Do not breathe gas/fumes/vapour/spray.

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2.2. Label elements

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.

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					50 - 60%	

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).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Water. Dry chemical. Carbon dioxide (CO₂).

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

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

See section 12, 13 for further information.

SECTION 7: Handling and storage

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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.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Resin 3176 / 3116 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 - Handprotection

	Nitrile rubber gloves.
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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	Brown
Odour	Odourless
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive	No data available
Oxidising	No data available
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	No data available
Vapour Flammability	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	= 1.21 (Water = 1 @ 20 °C)
Fat Solubility	No data available
Solubility	No data available

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

Stable under normal conditions.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Acids. Oxidising agents.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation Skin irritation and dermatitis.

Serious eye damage/irritation Irritating to eyes.

11.1.4. Toxicological Information

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Oral Rat LD50: 49 gm/kg

Dermal Rabbit LD50: >9400mg/kg

SECTION 12: Ecological information

12.1. Toxicity

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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**Disposal methods**

Dispose of as special waste in compliance with. local and national 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.

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.

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.