

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Hardener CAT VM1

Revision 0
Revision date 2012-10-01

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

1.1. Product identifier

Product name	Hardener CAT VM1
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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; [PC0] Other; [PROC19] Hand-mixing with intimate contact and only PPE available; [ERC4] Industrial use of processing aids in processes and products, not becoming part of articles; [AC13] Plastic articles;
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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

Main hazards	No Significant Hazard
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2.2. Label elements

Risk phrases	No Significant Hazard.
Precautionary Phrases	P15 - Restricted to professional users. P16 - EC Label.

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
Silicone					80 - 90%	

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3.2. Mixtures

Characteristic. Chemical Name. Silicone.

Further information

No Significant Hazard The product is classified as non hazardous.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water.
Ingestion	Seek medical attention if irritation or symptoms persist.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Carbon dioxide (CO2). Dry chemical. Foam. Water spray.

5.2. Special hazards arising from the substance or mixture

Do not breathe dust/fume/gas/mist/vapours/spray. Carbon oxides. may be formed in fire conditions.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No safety clothing required. No Significant Hazard. Ensure adequate ventilation of the working area.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes. Avoid contact with skin. Use only in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities

Suitable packaging Keep container tightly closed and dry. Keep container tightly closed in a cool place. Store in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Silicone	WEL 8-hr limit ppm: No Limits Identified	WEL 8-hr limit mg/m3: No Limits Identified
	WEL 15 min limit ppm: No Limits Identified	WEL 15 min limit mg/m3: No Limits Identified



8.2. Exposure controls

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8.2. Exposure controls

	 
Eye / face protection	Suitable eye protection.
Skin protection - Handprotection	Wear suitable gloves.
Respiratory protection	Not normally required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Yellow
Odour	Odourless
pH	No data available
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	- 190 °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 (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

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Acids. Alcohols. Alkalis. Amines.
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10.6. Hazardous decomposition products

	Carbon oxides.
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Skin corrosion/irritation	No irritation expected.
Serious eye damage/irritation	Irritating to eyes.
Respiratory or skin sensitisation	No sensitization effects reported.

11.1.4. Toxicological Information

	No data available
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SECTION 12: Ecological information

12.1. Toxicity

	No data available
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12.2. Persistence and degradability

	Not readily biodegradable.
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Further information

	Do not allow product to enter drains.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

	Dispose of in compliance with all local and national 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

	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. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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Further information

	T S C A (T o x i c S u b s t a n c e s C o n t r o l A c t) : All ingredients are listed. CAA 112. CallProp 65. CWA 311. Massachusetts. Sara 302. Sara 304. Sara 313. None of the ingredients is listed.
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SECTION 16: Other information

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
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Further information

	combination with any other materials or in any other process.
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