ProductHardener Catalyst VM2Revision date21 February 2018Revision1

# **RENISHAW**. apply innovation<sup>™</sup>

# Safety Data Sheet (SDS)

#### Section 1: Identification of the substance/preparation and of the company/undertaking

#### **1.1 Product identifier**

Product name	Hardener Catalyst VM2
Synonyms, Trade names	No information available.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Curing agent.
	For industrial use only.
Uses advised against	No uses advised against are identified.

#### **1.3 Details of the supplier of the safety data sheet**

Supplier	Renishaw plc
	Brooms Road
	Stone Business Park
	Stone, Staffordshire
	ST15 0SH
	United Kingdom
	Tel: +44 (0) 1785 285000 (during UK office hours 09:00 to 17:00 UTC).
Contact person	msds@renishaw.com
<b>1.4 Emergency telephone number</b>	
Emergency telephone	999 / 911 or local emergency number

#### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

<b>Classification (EC 1272/2008)</b> Physical and chemical hazards Human health Environment	Not classified Not classified Not classified
2.2 Label elements	
Contains	Not applicable
Label in accordance with (EC) no. 1272/2008	No pictogram required
Signal word	No Signal Word
Hazard statements	No hazard statements required
Precautionary statements	No precautionary statements required

#### 2.3 Other hazards

With exposure to acids, bases and oxidizing agents, product will release hydrogen: Extremely flammable. Danger of explosion!

## Section 3: Composition/identification of ingredients

# 3.1 Substance

# Not applicable.

# 3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
ORGANOPOLYSILOXANE	CAS-No.: EC No.:		<100%

The full text for all hazard statements are displayed in section 16.

Composition commentsThe data shown are in accordance with the latest EC Directives. There are no ingredients<br/>present which, within the current knowledge of the supplier and in the concentrations<br/>applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or<br/>Substances of equivalent concern, or have been assigned a workplace exposure limit and<br/>hence require reporting in this section.

#### Section 4: First aid measures

## **4.1 Description of first aid measures**

General information	Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.
Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. If breathing is difficult, give oxygen. Seek medical attention. Keep person warm and at rest.
Ingestion	If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention immediately! Never give anything by mouth to an unconscious person.
Skin contact	Immediately wash with water, preferably under a shower, removing contaminated clothing while washing proceeds. Obtain medical attention if irritation persists or if blistering occurs. Contaminated clothing should be washed before re-use.
Eye contact	Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Avoid contaminating unaffected eye. Remove contact lenses if present and easy to do so. Seek medical attention.

# 4.2 Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms noted.
Ingestion	No specific symptoms noted.
Skin contact	No specific symptoms noted.
Eye contact	May cause temporary eye irritation.

# 4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician	Treat symptomatically.	
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Section 5: Fire-fighting measures	
5.1 Extinguishing media	
Extinguishing media Unsuitable extinguishing media	Extinguish with foam, carbon dioxide or water fog. High volume water jet.

# $\underline{5.2}$ Special hazards arising from the substance or mixture

	Fire may generate irritating, toxic and corrosive gases. Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Hydrogen.
Unusual fire & explosion hazards	Some hydrogen gas may be released. Hydrogen is flammable and can form explosive

Specific hazards	mixtures with air. If heated, harmful vapours may be formed. Floors may become slippery, avoid falls. Most fire extinguishing media will cause hydrogen release. Thus, in poorly ventilated or confined spaces, the accumulation of hydrogen may result in flash fire or explosion if ignited. Applying foam may release flammable hydrogen gas that can be trapped under the foam.
5.3 Advice for firefighters	
Special fire fighting procedures	If possible, fight fire from protected position. Avoid breathing fire vapours. Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Containers close to fire should be removed immediately or cooled with water if safe to do so.
Protective equipment for firefighter	<b>s</b> Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

#### Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures		
Personal precautions For emergency responders	Do not touch or walk through spilled material. Evacuate and ventilate area. Eliminate all sources of ignition. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Keep unnecessary and unprotected personnel from entering. Follow safe handling advice and personal protective equipment recommendations for normal use of product.	
6.2 Environmental precautions		
<b>Environmental precautions</b>	Do not discharge onto the ground or into water courses.	
<u>6.3 Methods and material for containment and cleaning up</u>		
Spill clean up methods	Stop leak if possible without risk. DO NOT touch spilled material! Wear necessary protective equipment. Ventilate and evacuate the area. Eliminate all sources of ignition. Wear respirator if ventilation is not adequate. Scrape up with rag or other material and place into suitable clean labelled container. In such a case be aware of generation of hydrogen gas by contaminants. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container Wash work area with water.	
6.4 Reference to other sections		
Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.	

# Section 7: Handling and storage

7.1 Precautions for safe handling	
Handling	Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Do not use contact lenses. Avoid contact with skin and eyes. Avoid inhalation of vapours. Avoid prolonged or repeated contact. Provide good ventilation. Wear personal protective equipment. Handle and open container with care. Do not mix with other chemicals. Observe good industrial hygiene practices. Vent container properly to eliminate internal pressure.
7.2 Conditions for safe storage, includi	ng any incompatibilities
Storage precautions	Keep away from heat, sparks, direct sunlight and open flames. This product slowly evolves hydrogen on storage. Store separately from acids, alkalies and oxidising agents. Keep only in

# a vented container in a well ventilated area. Keep container closed and store away from water or moisture. Do not store in or use glass containers. Storage temperature: Minimum: - 10 °C. Maximum: 30 °C.

# Storage class

# 7.3 Specific end use(s)

Specific end use(s) **Usage description** 

The identified uses for this product are detailed in Section 1. Use only according to directions.

#### Section 8: Exposure controls/Personal protection

# **8.1 Control parameters**

**Ingredient comments** 

No exposure limits noted for ingredient(s).

Chemical storage.

# **8.2 Exposure Controls**

#### **Protective equipment**



Engineering measures Respiratory equipment	Provide adequate ventilation, including appropriate local extraction. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143, and suitable respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Change filters frequently. Use respiratory protection as specified by an industrial hygienist or other qualified professional if concentrations exceed the limits listed in Section 8.
Hand protection	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. Gloves must be inspected prior to use. Suggested material: Nitrile/Chloroprene. Consult manufacturer for specific advice. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Change gloves regularly. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace.
Eye protection	Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
Other protection	Wear appropriate clothing to prevent any possibility of skin contact. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist.
Hygiene measures	Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work. Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Wash promptly if skin becomes wet or contaminated.
Process conditions	Ensure that eye flushing systems are located close by in the work place.

# **Section 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance Colour Odour	Liquid. Colourless. Slight.
Odour threshold - lower	No information available.
Odour threshold - upper	No information available.
pH-Value, Conc. Solution	No information available.
pH-Value, Diluted solution	No information available.

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Melting point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	> 94.00 °C
Evaporation rate	No information available.
Flammability state	No information available.
Flammability limit - lower(%)	No information available.
Flammability limit - upper(%)	No information available.
Vapour pressure	No information available.
Vapour density (air=1)	Not applicable.
Relative density	0.99 g/cm3 (25°C).
Bulk density	No information available.
Solubility	Insoluble.
Decomposition temperature	No information available.
Partition coefficient; n- Octanol/Water	No information available.
Auto ignition temperature (°C)	No information available.
Viscosity	600 mPas 23.00
Explosive properties	Not classified as explosive. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.
Oxidising properties	No information available.
9.2 Other information	
Molecular weight	No information available.
Volatile organic compound	No information available.
Other information	None noted.

Section 10: Stability and reactivity	
10.1 Reactivity	
Reactivity	Hydrogen is liberated on contact with water, alcohols, acidic or basic materials, many metals or metallic compounds and can form explosive mixtures in air.
10.2 Chemical stability	
Stability	Stable under normal temperature conditions and recommended use.
<b>10.3 Possibility of hazardous reactions</b>	
Hazardous reactions Hazardous polymerisation Polymerisation description	Avoid contact with acidic, basic or oxidizing materials. May polymerise. Unknown.
<b>10.4 Conditions to Avoid</b>	
Conditions to avoid	Heat, sparks, open flames, temperature extremes and direct sunlight.

# **10.5 Incompatible materials**

Materials to avoid	Store separately from acids, alkalies, and oxidising agents. Avoid contact with metals and water. Strong reducing agents, Alcohols. Metallic compounds.
10.6 Hazardous decomposition products	

# **10.6 Hazardous decomposition products**

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other harmful gases or vapors. Decomposition may lead to the release of flammable hydrogen gas. Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Hydrogen.

# Section 11: Toxicological information

# **11.1 Information on toxicological effects**

Acute toxicity (Oral LD50)No information available. No information available. No information available.Acute toxicity (Inhalation LD50)No information available. No information available.Serious eye damage/irritationMay cause temporary eye irritation.Skin corrosion/irritationNo information available.Skin corrosion/irritationNo information available. No information available.Germ cell mutagenicityNo information available. No information available.GarcinogenicityNo information available.Specific target organ toxicity - Single exposure: STOT - Single exposureNo information available. No information available.Specific target organ toxicity - Repeated exposure: STOT - Repeated exposureNo information available. No information available.Inhalation Skin contactNo specific symptoms noted. No specific symptoms noted. No specific symptoms noted.Skin contact Yee contactMo information available. No specific symptoms noted. No specific symptoms noted. No specific symptoms noted.Routes of entry Target organsNo information available. No target organs specified.Aspiration hazards: Reproductive toxicity:No information available. No information available. No target organs specified.	Toxicological information	No toxicological information for the overall finished product.
Acute toxicity (Inhalation LD50)No information available.Serious eye damage/irritationMay cause temporary eye irritation.Skin corrosion/irritationNo information available.Respiratory sensitisationNo information available.Skin sensitisationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.Specific target organ toxicity - Single exposure: STOT - Single exposureNo information available.Specific target organ toxicity - Repeated exposure: STOT - Repeated exposureNo information available.Inhalation IngestionNo specific symptoms noted. No specific symptoms noted. No specific symptoms noted. No specific symptoms noted. Eye contactNo specific symptoms noted. No information available.Routes of entry Target organsNo information available. No information available.Routes of entry Target organsNo information available. No information available.Aspiration hazards:No information available.		
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•	STOT - Repeated exposure Inhalation Ingestion Skin contact Eye contact Waste management Routes of entry	No information available. No specific symptoms noted. No specific symptoms noted. No specific symptoms noted. May cause temporary eye irritation. When handling waste, consideration should be made to the safety precautions applying to handling of the product. No information available.
	STOT - Repeated exposure Inhalation Ingestion Skin contact Eye contact Waste management Routes of entry Target organs	No information available. No specific symptoms noted. No specific symptoms noted. May cause temporary eye irritation. When handling waste, consideration should be made to the safety precautions applying to handling of the product. No information available. No target organs specified.

# Section 12: Ecological information

# 12.1 Toxicity

Acute toxicity - Fish	No information available.
Acute toxicity - Aquatic invertebrate	<b>s</b> No information available.
Acute toxicity - Aquatic plants	No information available.
Acute toxicity - Microorganisms	No information available.
Chronic toxicity - Fish	No information available.
Chronic toxicity - Aquatic	No information available.
invertebrates Chronic toxicity - Aquatic plants Chronic toxicity - Microorganisms Ecotoxicity Eco toxilogical information	No information available. No information available. No Ecological information on the finished product. No ecological toxicity available on the overall finished product.

<b>12.2 Persistence and degradability</b>	
Degradability	No information available.
Biological oxygen demand Chemical oxygen demand	No information available. No information available.
<b>12.3 Bioaccumulative potential</b>	
Bioaccumulative potential	No data available on bioaccumulation.
Bioaccumulation factor Partition coefficient; n-	No information available. No information available.
Octanol/Water	
<b>12.4 Mobility in soil</b>	
Mobility	No information available.
Mobility	
<b>12.5 Results of PBT and vPvB assessm</b>	<u>ient</u>
Results of PBT and vPvB assessme	ent No information available.
12.6 Other adverse effects	
Other adverse effects	No information available.
Section 13: Disposal considerations	
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
13.1 Waste treatment methods	
Disposal methods	Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a
	licensed industrial waste disposal agent.
Section 14: Transport information	
<u>14.1 UN number</u>	
UN no. (ADR)	Not applicable.
UN no. (IMDG) UN no. (IATA)	Not applicable. Not applicable.
	Not applicable.
<u>14.2 UN proper shipping name</u>	Natapplieshle
ADR proper shipping name IMDG proper shipping name	Not applicable. Not applicable.
IATA proper shipping name	Not applicable.
14.3 Transport hazard class(es)	
ADR class IMDG class	Not applicable. Not applicable.
IMDG class IATA class	Not applicable.
Transport labels	Not applicable
14.4 Packing group	
ADR/RID/ADN packing group	Not applicable.
IMDG packing group	Not applicable.
IATA packing group	Not applicable.
14.5 Environmental hazards	
ADR IMDG	No No
IATA	No

IATA

No

# **14.6 Special precautions for user**

EMS	
Emergency action code	
Hazard no. (ADR)	
Tunnel restriction code	

Not applicable. Not applicable. Not applicable. Not applicable.

## 14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

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Approved.

Not applicable.

#### Section 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.
Approved code of practice	Workplace Exposure Limits Guidance Note EH40/2005.
Chemical safety assessment	No chemical safety assessment has been carried out.
Section 16: Other information	
General information Revision comments Revision date	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010. This is a first issue. 21 February 2018

#### Hazard statements in full

Safety data sheet status

#### Disclaimer

Revision

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.