Regulation EC Nr. 1907/2006 Art.31

June 27th 2016

Date:

Product name: Micro-Tec G4 high-vacuum silicone grease

Document Nr.: SD00164001004-01 **Version:** 1.0

Section 1: Identification of the substance or mixture and the company

1.1. Product Identifier

Micro-Tec G4 high-vacuum silicone grease

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

Sealing and lubrication of vacuum and pressure systems, laboratory equipment and microscopes

1.3. Details of the supplier of the Safety Data Sheet

Vof Micro to Nano Wateringweg 79 2031EK Haarlem Netherlands

Tel: +31(0)85-2013155 E: info@microtonano.com

1.4 Emergency telephone number

112 (NLD) or your national emergency telephone number for chemical spills, leaks, fires, exposures or accidents

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Physical: None Health: None None

none

Environment: None

Other hazards: Flammability 1

Classification according to Regulation EC Nr. 1272/2008

Health: Not classified

Not classified

Physical Not classified Environment: Not classified Other hazards: Not classified



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2.2 Labelling elements

Labelling accordance to Regulation EC Nr. 1272/2008

Hazard pictogramm: None

Signal word: None mandated

Hazard statement(s): None

Precautionary statement(s): P102: Keep out of reach of children

P233: Keep container tightly closed

P280: Wear protective gloves/protective clothing/eye protection/face

Date:

protection

P337/313: If eye irritation persists; get medical advice/attention

P501-2: Dispose of contents/container to an authorised waste collection

point

Supplemental hazard info: None

2.3 Other hazards

None

Section 3: Composition / information on components

3.1. Substances

Not applicable

3.2 Mixtures

CAS Nr	% (weight)	Name	Classification according to directive 67/548/EEC [DSD]	Classification according to regulation Nr 1272/2008 [CLP]
63148-62-9	>75%	Polymethylsiloxane		
7631-86-9	5-15%	Silica, amorphous		
70131-67-8	5-10%	Dimethyl, hydroxy terminated		



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Section 4: First aid measures

4.1. Description of first aid measures

Contact with eyes: Rinse cautiously with water for several minutes. If possible, remove contact

lenses. Continue rinsing.

Contact with skin: Wash with water and soap.

Seek medical attention if irritation persists.

Inhalation: Fresh air, keep warm and at rest.

Seek medical attention of ill effects occur

Ingestion: If swallowed, do not induce vomiting

Seek immediate medical advice

4.2. Important symptoms and effects, either immediate or delayed

Inhalation:None known or expectedIngestion:None known or expectedSkin contact:Mildly irritating to skin

Symptoms: redness

Eye contact: Mildly irritating to eyes

Symptoms: redness and pain, impaired vision

4.3. Indication of any immediate medical attention and special treatment

General advise: If you feel unwell, seek medical advice; show product label if possible

If symptoms persist, always call a doctor

Section 5: Firefighting Measures

5.1. Extinguishing media

Water spray, foam, carbon dioxide or dry agent

5.2 Special hazards arising from the substance or mixture

Not a fire hazard. Will burn if involved in a fire. Produces SiO₂ and carbon oxides (CO, CO₂)

5.3 Advice to firefighters

Wear full protective clothing. Wear self-contained breathing apparatus.



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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing including eye/face protection

6.2 Environmental precautions

Avoid release into the environment

6.3 Methods and material for containment and clean up

Clean up spills immediately

The material presents a slip hazard and spills must be cleaned thoroughly. Collect spillage, absorbed spillage and wipes in a suitable container for disposal.

Wash spill area with steam, solvents or detergents to remove last traces of residue.

6.4 Reference to other sections

For further information see section 8

Section 7: Handling and storage

7.1. Precautions for safe handling

Do not get in eye, on skin or on clothing. Wear protective gloves/protective clothing/eye protection/face protection Have eyewash bottles available

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly close, in a cool, well ventilated place Keep out of reach of children

7.3 Specific end uses(s)

Sealing and lubrication in vacuum systems, laboratory equipment and microscopes. Sealing of glass desiccators and stop-cocks Lubricating vacuum feedthroughs Lubricating O-rings



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Section 8: Exposure control and personal protection

8.1. Control parameters

Exposure limits

Occupational exposure limits (OEL)

Ingredient	Material Name	Source	TWA	STEL	Peak	Notes
Amorphous silica	Amorphous silica	EU	10mg/m3	Not established	Not available	Not available

8.2 Exposure controls

Control procedures: Ensure adequate ventilation. The silica dust is bound in the grease matrix and

does not present as a respiration hazard under normal conditions.

Personal protection: Take precautions to avoid contact with eyes and skin when handling the product

Inhalation: In case of insufficient ventilation, wear suitable respiratory equipment:

Hands and skin: Wear suitable gloves against chemicals; recommended gloves:

Nitrile

Eyes: Wear safety goggles or full face protection

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance/physical state: Solid, paste

Colour: Translucent white

Odour: None

pH Not determined
 Boiling point/range: Not determined
 Melting point/range: Not available
 Flash point: Not applicable
 Evaporation rate: Not available
 Explosion limits: upper limit: Not available

lower limit: Not available
Not determined

Vapour pressure: Not determined Relative density: 1.1 g/cm3 @ 25°C

Solubility in water:InsolubleAuto-ignition:Not applicableViscosity:<= 2,000,000 cSt</th>



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9.2 Other information

VOC: None

Section 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purposes

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purposes

10.4 Conditions to avoid

Avoid overheating, avoid ignition sources and keep away from incompatible materials

10.5 Incompatible materials

Strong oxidising agents, strong acids

10.6 Hazardous decomposition products

CO, CO2, SiO₂

Section 11: Toxological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Inhalation: No known significant effects
 Skin contact: May cause mild irritation to skin
 Eye contact: May cause mild irritation to eyes
 Ingestion: No known significant effects
 Chronic: No known long term effect



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Toxicological data:

Ingredient	Toxicity	Irritation	
Polydimethylsiloxane	Not available	Not available	
Silica, amarphous	Not available	Not available	
EM-Tec G4 high-vacuum grease	Not available	Not available	

Section 12: Ecological information

12.1. Toxicity

Not classified

12.2 Persistence and degradability

No experimental data available

12.3 Bioaccumulative potential

No experimental data available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Hazardous decomposition products

No experimental data available

Section 13: Disposal considerations

13.1. Waste treatment methods

Product: This material and its container must be disposed of in a safe way.

Do not discharge into drains or the environment, dispose to an authorised waste

collection point.

National regulations: Disposal should be in accordance with local, state or national legislation.



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Section 14: Transport information

14.1. UN number

UN-number: N/A

14.2 UN proper shipping name

Proper shipping name: N/A

14.3 Transport hazard class(es)

Class: N/A ADR/RID-Classification code: N/A

14.4 Packing group

Packing: N/A

14.5 Incompatible materials

ADR/RID- Environmentally hazardous: N/A IMDG-Marine poluttant: N/A IATA/ICAO-Environmentally hazardous: N/A

14.6 Special precautions for user

ADR/RID-Tunnelcode: N/A
IMDG-Ems: N/A
IATA/ICAO-PAX: N/A
IATA/ICAO-CAO: N/A

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

Not applicable

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

UN-number: N/A



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15.2 Chemical safety assessment

No information available

Section 16: Other information

RoHS Directive Compliant

This product is fully compliant with the directive 2100/65/EU Annex II (RoHS). It does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's or PBDE's.

WEEE

This product is not a piece of electrical or electronic equipment, and it therefore not governed by Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

Abbreviations:

Asp. Tox Aspiration hazard Carc. Carcinogenicity Exp. Exposure Flam. Flammable

GHS Global Harmonised System of Classification of Labelling Chemicals

Irrit. Irritant

LC50 Lethal Concentration 50%

LCLo Lowest published lethal concentration

LD50 Lethal Dose 50% N/A Not applicable N/E Not estimated

PBT Persistent Bioaccumulative and Toxic

WEL Workplace Exposure Limit Repr. Reproductive toxitant

RoHS Restriction of Hazardous Substance
SEM Scanning Electron Microscope
STEL Short-Term Exposure Limit
STOT Specific Target Organ Toxicity

TCLo Lowest published toxic concentration

vPvB very Persistent and very Bioaccumulative

WEEE Waste Electrical and Electronic Equipment

DSD / DPD label elements

None

Full Text Risk and Hazard codes

None



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Safety advice:

S01 - Keep locked up.

S02 - Keep out of reach of children.

S09 – Keep container in a well ventilated place.

S13 – Keep away from food, drink and animal feeding stuff.

S20 – When using, do not eat or drink.

S26 – In case of contact with eyes, rinse with plenty of water and seek medical help.

S281 – After contact with skin, wash immediately with detergent and plenty of waterways.

S29 – Do not empty in drains.

S35 – This materials and its container must be disposed of in a safe way.

S36 – Wear suitable protective clothing.

S37 – Wear suitable gloves.

S39 - Wear eye / face protection.

S41 – In case of fire and/or explosion; DO NOT breathe fumes.

S43 – In case of fire use water, foam or dry agent

S45 – In case of accident or if you feel unwell, immediately contact Doctor or Poisons information center (show label if possible).

S46 – If swallowed, seek immediate medical advice and show label if possible.

S56 – Dispose of this materials and its container at hazardous or special waste collection point.

S57 – Use appropriate container to avoid environment contamination.

S61 - Avoid release to the environment

S63 – In case of accident by inhalation; remove casualty to fresh air and keep at rest

S64 – If swallowed, rinse mouth with water (only if person is conscious)

This product should be stored, handled and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.