Silicone oil M 5000, high viscous, 5000 cSt

article number: **4050** Version: **GHS 3.0 en** Replaces version of: 2023-03-29 Version: (GHS 2)

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

4050

63148-62-9

Polydimethylsiloxane

1.1 Product identifier

Identification of the substance

- Article number
- CAS number

Alternative name(s)

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for private purposes (household). Food, drink and animal feedingstuffs.

Silicone oil M 5000, high viscous, 5000 cSt

# 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

# e-mail (competent person):

# sicherheit@carlroth.de

# 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126	

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# **Classification acc. to GHS**

This substance does not meet the criteria for classification.

# 2.2 Label elements

# Labelling

not required

# 2.3 Other hazards

Special danger of slipping by leaking/spilling product.



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# Silicone oil M 5000, high viscous, 5000 cSt



article number: 4050

# Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) in a concentration of  $\ge 0,1\%$ .

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Name of substance	Silicone oil
Molecular formula	(C₂H₀OSi)n
CAS No	63148-62-9

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures



# **General notes**

No special measures are necessary.

#### Following inhalation

Provide fresh air.

# Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Rinse cautiously with water for several minutes.

#### **Following ingestion**

Rinse mouth. Call a doctor if you feel unwell.

- **4.2** Most important symptoms and effects, both acute and delayed Symptoms and effects are not known to date.
- **4.3 Indication of any immediate medical attention and special treatment needed** none

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media



# Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

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# Silicone oil M 5000, high viscous, 5000 cSt



### article number: 4050

# Unsuitable extinguishing media

water jet

# 5.2 Special hazards arising from the substance or mixture

Combustible.

# Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

# 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures



# For non-emergency personnel

Special danger of slipping by leaking/spilling product.

# 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

# 6.3 Methods and material for containment and cleaning up

# Advice on how to contain a spill

Covering of drains.

# Other information relating to spills and releases

Place in appropriate containers for disposal.

# 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Provision of sufficient ventilation.

# Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

# Incompatible substances or mixtures

Observe hints for combined storage.

# Consideration of other advice:

# Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

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# Silicone oil M 5000, high viscous, 5000 cSt

article number: 4050

# 7.3 Specific end use(s)

No information available.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# National limit values

# **Occupational exposure limit values (Workplace Exposure Limits)**

This information is not available.

# 8.2 Exposure controls

# Individual protection measures (personal protective equipment)

# Eye/face protection



Use safety goggle with side protection.

# **Skin protection**



# hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

# • type of material

NBR (Nitrile rubber)

• material thickness

>0,11 mm

# • breakthrough times of the glove material

>480 minutes (permeation: level 6)

# • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

# **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65  $^{\circ}$ C, colour code: Brown). Usually no personal respirative protection necessary.

# **Environmental exposure controls**

Keep away from drains, surface and ground water.

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article number: 4050

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

9.1	Information on basic physical and chemical properties			
	Physical state	liquid		
	Form	viscous		
	Colour	colourless		
	Odour	odourless		
	Melting point/freezing point	-50 °C		
	Boiling point or initial boiling point and boiling range	not determined		
	Flammability	this material is combustible, but will not ignite readily		
	Lower and upper explosion limit	not determined		
	Flash point	>300 °C		
	Auto-ignition temperature	not determined		
	Decomposition temperature	not relevant		
	pH (value)	not determined		
	Kinematic viscosity	4,750 – 5,250 <sup>mm²</sup> / <sub>s</sub> at 25 °C		
	Solubility(ies)			
	Water solubility	(The study does not need to be conducted be- cause the substance is known to be insoluble in water)		
	Solubility in hydrocarbons, aliphatic	soluble		
	Solubility in hydrocarbons, aromatic	soluble		
	Solubility in ethylene glycol	practically insoluble		
	Solubility in ethyl acetate	soluble		
	Solubility in n-butyl acetate	soluble		
	Solubility in toluene	soluble		
	Solubility in trichloroethylene	soluble		
	Solubility in methanol	practically insoluble		
	Solubility in trichloromethane (chloroform)	soluble		
	Partition coefficient			
	Partition coefficient n-octanol/water (log value):	this information is not available		
	Vapour pressure	not determined		
	Density and/or relative density			
	Density	0.97 – 0.98 <sup>g</sup> / <sub>cm³</sub> at 25 °C		

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# Silicone oil M 5000, high viscous, 5000 cSt



#### article number: 4050

	information on this property is not available	
Particle characteristics	not relevant (liquid)	
Other safety parameters		
Dxidising properties	none	
Other information		
nformation with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant	
Other safety characteristics:	There is no additional information.	
	other safety parameters exidising properties <b>Other information</b> Information with regard to physical hazard lasses:	

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### If heated

Vapours may form explosive mixtures with air.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

# 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

# **10.5** Incompatible materials

There is no additional information.

# **10.6 Hazardous decomposition products**

Hazardous combustion products: see section 5.

# SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

# **Classification acc. to GHS**

This substance does not meet the criteria for classification.

#### Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful in contact with skin.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	rat		TOXNET
dermal	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rabbit		TOXNET

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# Silicone oil M 5000, high viscous, 5000 cSt



article number: 4050

# Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

# Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

# Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

# Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

# Carcinogenicity

Shall not be classified as carcinogenic.

# **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

# Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

# Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

# **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

# Symptoms related to the physical, chemical and toxicological characteristics

# • If swallowed

Data are not available.

• If in eyes

Data are not available.

# • If inhaled

Data are not available.

# • If on skin

Data are not available.

# • Other information

Health effects are not known. This information is based upon the present state of our knowledge.

# **11.2** Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\ge 0,1\%$ .

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

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# Silicone oil M 5000, high viscous, 5000 cSt

article number: 4050

# 12.2 Persistence and degradability

Biodegradation

Not readily biodegradable.

- **12.3 Bioaccumulative potential** Data are not available.
- **12.4 Mobility in soil** Data are not available.
- **12.5 Results of PBT and vPvB assessment** Data are not available.
- **12.6** Endocrine disrupting properties Does not contain an endocrine disruptor (ED) in a concentration of  $\ge 0,1\%$ .
- 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

# Sewage disposal-relevant information

Do not empty into drains.

# Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

#### 14.1 UN number

- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

not subject to transport regulations

not assigned

not assigned

not assigned

non-environmentally hazardous acc. to the dangerous goods regulations

- **14.6** Special precautions for user There is no additional information.
- **14.7 Transport in bulk according to IMO instruments** The cargo is not intended to be carried in bulk.

acc. to Safe Work Australia - Code of Practice

# Silicone oil M 5000, high viscous, 5000 cSt



article number: 4050

# 14.8 Information for each of the UN Model Regulations

**Transport informationNational regulationsAdditional information(UN RTDG)** Not subject to transport regulations. UN RTDG

**International Maritime Dangerous Goods Code (IMDG) - Additional information** Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information** Not subject to ICAO-IATA.

# **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture There is no additional information.

#### National regulations(Australia)

#### Australian Inventory of Chemical Substances(AICS)

Substance is listed.

#### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

# **National inventories**

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSO	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

acc. to Safe Work Australia - Code of Practice

# Silicone oil M 5000, high viscous, 5000 cSt



article number: 4050

# 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.	yes
15.1		National inventories: change in the listing (table)	yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
ED	Endocrine disruptor
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
PBT	Persistent, Bioaccumulative and Toxic
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative

# Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.