

# Safety Data Sheet

## Silikon-Öl

Revision nr. 4  
Dated 09/03/2023

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### 1.1. Product identifier

Identification of the substance:

Product Name: Silikon-Öl  
Code: TFC3005, TFC3006, TFC3007, TFC3008, TFC3009

CAS number: 63148-62-9

The substance must not be registered according to REACH, article 2

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

Intermediate.

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

Name  
RT Silikone GmbH  
Kaiserdamm 2  
27339 Riede  
Germany  
tel. +49(0)4294-7969-140  
Mail: info@rtsilikone.de

Competent person responsible for the safety data sheet:  
info@rtsilikone.de

### 1.4. Emergency telephone number

tel. +49(0)4294-7969-140 (office hours)

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### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### 2.3. Other hazards

This substance has no PBT, vPvB or endocrine disrupting properties

Other Hazards:

No other hazards

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### 3.1. Substances

Identification of the substance:

Product Name: Polydimethylsiloxane

CAS number: 63148-62-9

### 3.2. Mixtures

Not Applicable

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### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treatment:

None

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### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### 6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

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In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

### 6.4. Reference to other sections

See also section 8 and 13

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### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Do not eat or drink while working.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

See section 10.5.

Instructions as regards storage premises:

Cool and adequately ventilated.

### 7.3. Specific end use(s)

See section 1.2.

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### 8.1. Control parameters

Polydimethylsiloxane - CAS: 63148-62-9

OEL Type	TWA	Duratio n	STEL	Duratio n	Notes	Country
TLV	10 mg/m3	8h			INHALABL E AEROSOL	

DNEL Exposure Limit Values

Not available

PNEC Exposure Limit Values

Not available

### 8.2. Exposure controls

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Eye protection:

Wear airtight protective goggles (EN 166).

Protection for skin:

Wear professional overalls and safety footwear (EN 14605).

Protection for hands:

Suitable material:

NBR (nitrile rubber - EN 374).

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered (e.g.

TLV-TWA).

Thermal Hazards:

None

Environmental exposure controls:

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None  
 Appropriate engineering controls:  
 None

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

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Transparent	--	--
Odour:	Odourless	--	--
Melting point/freezing point:	- 55°C	--	--
Boiling point or initial boiling point and boiling range:	Not available	--	--
Flammability:	Not available	--	--
Lower and upper explosion limit:	Not available	--	--
Flash point:	>150 ° C	--	--
Auto-ignition temperature:	395°C	--	--
Decomposition temperature:	> 250 °C	--	--
pH:	Not Relevant	--	--
Kinematic viscosity:	Not available	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	Not available	--	--
Partition coefficient n-octanol/water (log value):	Not available	--	--
Vapour pressure:	Not available	--	--
Density and/or relative density:	0.96 g/cm <sup>3</sup>	--	--
Relative vapour density:	Not available	--	--
Particle characteristics:			
Particle size:	Not available	--	--

### 9.2. Other information

Properties	Value	Method:	Notes
Viscosity:	50 mPa.s a 25 °C	--	--

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Stable under normal conditions

#### 10.3. Possibility of hazardous reactions

None

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

None in particular.

#### 10.6. Hazardous decomposition products

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None.

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### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the substance:

Polydimethylsiloxane - CAS: 63148-62-9

a) acute toxicity

Not classified

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: (MSDS supplier).

Test: LD50 - Route: Skin - Species: Rat > 2008 mg/kg - Source: (MSDS supplier).

b) skin corrosion/irritation

Not classified

c) serious eye damage/irritation

Not classified

d) respiratory or skin sensitisation

Not classified

e) germ cell mutagenicity

Not classified

f) carcinogenicity

Not classified

Test: NOAEL - Species: Rat > 1000 mg/kg - Source: (MSDS supplier).

g) reproductive toxicity

Not classified

Test: NOAEL > 1000 mg/kg - Notes: developmental - Source: (MSDS supplier).

Test: NOAEL - Species: Rabbit > 1000 mg/kg - Notes: maternal - Source: (MSDS supplier).

h) STOT-single exposure

Not classified

i) STOT-repeated exposure

Not classified

Test: NOAEL - Route: Oral - Species: Rat > 1000 mg/kg - Source: (MSDS supplier).

j) aspiration hazard

Not classified

### 11.2. Information on other hazards

Endocrine disrupting properties:

This substance has no endocrine disrupting properties

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### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Polydimethylsiloxane - CAS: 63148-62-9

Not classified for environmental hazards

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Based on available data, the classification criteria are not met

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96h (MSDS supplier).

Endpoint: EC50 - Species: Daphnia > 0.0001 mg/l - Duration h: 48h (MSDS supplier).

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: FISH.MYKISS > 10000 mg/kg - Duration h: 28d (MSDS supplier).

Endpoint: NOEC - Species: Daphnia > 500 mg/kg - Duration h: 21d - Notes: mortality (MSDS supplier).

Endpoint: NOEC - Species: Daphnia > 500 mg/kg - Duration h: 21d - Notes: growth (MSDS supplier).

Endpoint: NOEC - Species: Daphnia > 500 mg/kg - Duration h: 21d - Notes: reproduction rate (MSDS supplier).

c) Bacteria toxicity:

Endpoint: LC50 - Species: 19126.sk > 100000 mg/l - Duration h: 72h (MSDS supplier).

### 12.2. Persistence and degradability

Polydimethylsiloxane - CAS: 63148-62-9

Biodegradability: Non-readily biodegradable

### 12.3. Bioaccumulative potential

Not available

### 12.4. Mobility in soil

Not available

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

### 12.7. Other adverse effects

None

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### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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### 14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

### 14.2. UN proper shipping name

Not available

### 14.3. Transport hazard class(es)

Not available

### 14.4. Packing group

Not available

### 14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

### 14.6. Special precautions for user

Not available

### 14.7. Maritime transport in bulk according to IMO instruments

Not Applicable

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

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Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Provisions related to directive EU 2012/18 (Seveso III):

Not available

WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe)

WGK1 - Slightly hazardous for water

Lagerklasse according to TRGS 510:

LGK 10: Combustible liquids

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

### 15.2. Chemical safety assessment

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

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This safety data sheet has been completely updated in compliance to Regulation 2020/878.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECHA – European Chemical Agency

GESTIS - Information system on hazardous substances of the German Social Accident Insurance

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IARC – International Agency for Research on Cancer  
IPCS INCHEM – International Programme on Chemical Safety  
ISS – Istituto Superiore di Sanità  
PubChem - open chemistry database at the National Institutes of Health (NIH)

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.