

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: SilOil P20.275.50
No.: 6157, 6158

Print date: 20.11.2013
Valid from: November 2013

Version: 10.07.2013/ 2.1.0



1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification of the substance/mixture

Product name: **SilOil P20.275.50**
No.: 6157, 6158
Chemical characterization: —
EC No: —
CAS No: —
REACH Registration No: —

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

Relevant identified uses:

Thermofluid.

Uses advised against:

—

1.3 Identification of the company/supplier

Supplier:

Peter HUBER Kältemaschinenbau GmbH

Street:

Werner-von-Siemens-Str. 1

Postal code:

DE-77656 Offenburg

Contact for technical information

Technical Support

Tel.: +49 (0) 781 9603-244

Fax: +49 (0) 781 57211

Email: support@huber-online.com

1.4 Emergency telephone number

+49 (0) 179 6910027 (Mo-Fr 08:00-16:00 / 8.00am-4.00pm)

+49 (0) 2751 524-113

+49 (0) 61 31 1924 0 (Giftinfo Mainz, 24 h German and English)

+49 (0) 761-19 240 (Vergiftungs-Informationszentrale Freiburg)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

None.

2.2 Label elements

None.

2.3 Other hazards

No information available.

3. Composition/information on ingredients

3.1 Mixtures

Hazardous ingredients

None.

Further ingredients

POLYDIMETHYLSILOXANE

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4. First aid measures

4.1 Description of first aid measures

General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Do not induce vomiting. Rinse mouth thoroughly with water.

Self-protection of the first aider

No special measures are necessary.

Information to physician

Treatment

Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Alcohol resistant foam. Water spray jet Extinguishing powder. Sand.

Unsuitable extinguishing media

None.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for firefighters

No special measures are necessary.

5.4 Additional information

None.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Take the precautions customary when handling chemicals. Use personal protection equipment. Special danger of slipping by leaking/spilling product.

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6.2 Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

For cleaning up

Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4 Reference to other sections

None.

6.5 Additional information

No data available.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Protective measures

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Hints on joint storage

Storage class (TRGS 510) : 12

Further information on storage conditions

Maximum storage temperature 50°C.

7.3 Specific end use(s)

None.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

Biological limit values

No data available.

DNEL/DMEL and PNEC values

DNEL/DMEL

No data available.

PNEC

No data available.

8.2 Exposure controls

Personal protection equipment

Eye / face protection

Eye glasses with side protection

Skin protection

Hand protection

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Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Suitable material: Butyl caoutchouc (butyl rubber). NBR (Nitrile rubber).

Respiratory protection

Usually no personal respirative protection necessary.

General health and safety measures

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.

8.3 Additional information

No data available.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Liquid.
Colour: Different according to colour.
Odour: Odourless.

Safety relevant basis data

Solidifying point:	(1 bar / 1 Pa) No data available. Brookfield
Melting point / melting range:	ca. -55 °C
Freezing point:	No data available.
Boiling temperature / boiling range:	> 300 °C
Decomposition temperature:	No data available.
Ignition temperature:	ca. 450 °C
Flash point:	300 °C
	ISO 2592
Lower explosion limit:	None.
Upper explosion limit:	None.
Vapour pressure:	(50 °C) No data available.
Density:	(20 °C) ca. 0,96 g/cm ³
Bulk density:	not relevant.
Solvent separation test:	(20 °C) No data available.
Fat solubility:	(20 °C) No data available.
Solubility in water:	Insoluble.
pH value:	(20 °C) ca. 7
log P O/W:	No data available.
Solid content:	No data available.
Odour threshold:	No data available.
Relative vapour density	(20 °C) No data available.
Evaporation rate:	No data available.
Vapourisation rate:	No data available.
Kinematic Viscosity:	(25 °C) ca. 50 mm ² /s
Flammable solids:	No data available.
Flammable gases:	No data available.
Oxidising liquids:	No data available.
Explosive properties:	No data available.
Corrosive to metals:	No data available.

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity

No dangerous reactions known.

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10.2 Chemical stability

When using the recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

If the maximum operating temperatures of the heat transfer fluid is not observed, it leads first to an increase in viscosity. Above a temperature of about 150 °C in an open bath it may result in gelling of the heat transfer fluid. We recommend regular review of the heat transfer fluid and / or replacement of the heat transfer fluid.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Measurements at temperatures above 150 °C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

10.7 Additional information

No data available.

11. Toxicological information

11.1 Information on toxicological effects

According to current knowledge, polydimethylsiloxanes are not physiologically a problem; but contact with eyes can cause short time, harmless, reversible blurred vision, due to the formation of an oil film on the eye.

Acute effects

Acute oral toxicity

Parameter: LD50 (POLYDIMETHYLSILOXANE)
Exposure route: Oral
Species: Rat
Effective dose: > 5000 mg/kg

Acute dermal toxicity

Parameter: LD50 (POLYDIMETHYLSILOXANE)
Exposure route: Dermal
Species: Rabbit
Effective dose: > 10000 mg/kg

Acute inhalation toxicity

Parameter: LC50 (POLYDIMETHYLSILOXANE)
Exposure route: Inhalation
Species: Rat
Effective dose: > 535 mg/kg
Exposure time: 1 h

Specific symptoms in animal studies

No data available.

Irritant and corrosive effects

Primary irritation to the skin

Not an irritant.

Irritation to eyes

Not an irritant.

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Irritation to respiratory tract

Not an irritant.

Sensitisation

In case of skin contact

Not sensitising.

After inhalation

Not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

No data available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No data available.

Germ cell mutagenicity/Genotoxicity

No data available.

Reproductive toxicity

No data available.

Specific target organ toxicity (single exposure)

No data available.

Specific target organ toxicity (repeated exposure)

No data available.

Aspiration hazard

No data available.

11.2 Toxicokinetics, metabolism and distribution

No data available.

11.3 Other adverse effects

No data available.

11.4 Additional information

No data available.

12. Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter:	LCO (POLYDIMETHYLSILOXANE)
Species:	Leuciscus idus (golden orfe)
Evaluation parameter:	Acute (short-term) fish toxicity
Effective dose:	200 mg/l
Exposure time:	96 h

Acute (short-term) daphnia toxicity

No data available.

Acute (short-term) algae toxicity

No data available.

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Bacteria toxicity

Parameter: ECO (POLYDIMETHYLSILOXANE)
Species: Pseudomonas putida
Effective dose: > 10000 mg/l

Terrestrial toxicity

No data available.

Plant toxicity

No data available.

Effects in sewage plants

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

12.2 Persistence and degradability

Abiotic degradation

The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

Biodegradation

Not readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

No data available.

12.7 Further ecological information

No data available.

13. Disposal considerations

13.1 Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

14. Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

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14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None.

15. Regulatory information

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

National regulations

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

Additional information

Substance/product listed in the following inventories

TSCA AICS DSL/NDL ENCS (Class 1 and 2) KECL PICCS IECS EINECS/ELINCS

15.2 Chemical safety assessment

No information available.

16. Other information

16.1 Indication of changes

03. Further ingredients.

16.2 Abbreviations and acronyms

None.

16.3 Key literature references and sources for data

None.

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]

None.

16.5 Relevant R-, H- and EUH-phrases (Number and full text)

None.

16.6 Training advice

None.

16.7 Additional information

None.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.