

# Safety Data Sheet

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

Trade name: SilOil M60.115/200.05  
No.: 6165, 6166

Print date: 27.02.2014  
Valid from: November 2013

Version: 02.07.2013 / 3.0.0



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

### 1.1 Identification of the substance/mixture

Product name: **SilOil M60.115/200.05**

**No.: 6165, 6166**

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:**

No information available.

### 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 Service**

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

Fax: +49 (0) 781 57211

Email: info@huber-online.com

### 1.4 Emergency telephone number

+49 (0) 179/6910027

+49 (0) 2751/524-113 (Mo-Fr 08:00-16:00 / 8.00am-4.00pm)

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

+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 (CO<sub>2</sub>). 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.

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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.

#### Fire prevent measures

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge.

### 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) : 10

#### Further information on storage conditions

None.

### 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

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## Skin protection

### Hand protection

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

Boiling temperature / boiling range:	ca. 240 °C
Decomposition temperature:	No data available.
Flash point:	ca. 120 °C
Ignition temperature:	> 400 °C
Lower explosion limit:	None.
Upper explosion limit:	None.
Vapour pressure:	( 20 °C ) ca. 0 hPa
Density:	( 20 °C ) ca. 0,92 g/cm <sup>3</sup>
Solubility in water:	Insoluble.
pH value:	( 20 °C ) not applicable.
log P O/W:	No data available.
Viscosity:	( 20 °C ) ca. 5 mPa.s
Odour threshold:	No data available.
Relative vapour density:	( 20 °C ) > 1 (air = 1)
Vapourisation rate:	No data available.
Flammable solids:	No data available.
Flammable gases:	No data available.
Oxidising liquids:	No data available.
Explosive properties:	No data available.

### 9.2 Other information

No data available.

## 10. Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known.

### 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

Keep away from sources of ignition. - No smoking.

### 10.5 Incompatible materials

No information available.

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## 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.

##### 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.

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## 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.

##### Bacteria toxicity

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

##### Terrestrial toxicity

No data available.

##### Plant toxicity

No data available.

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## 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.

### 14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

### 14.6 Special precautions for user

None.

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## 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/NDSL ENCS (Class 1 and 2) KECL PICCS IECSC EINECS/ELINCS

### 15.2 Chemical safety assessment

No information available.

## 16. Other information

### 16.1 Indication of changes

None.

### 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.