

# Safety Data Sheet

(according to EG-regulation 2001/58/EG)



Trade name: SilOil M80.100/250.03  
No.: 6275, 6276

Print date: 27.04.2016  
Valid from 04.2016

Huber-version: 1  
Replaced version: 27.04.2016

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

### 1.1 Identification of the substance/mixture

Substance name: **SilOil M80.100/250.03 / No. 6257, 6276**  
Product name: —  
EC No: —  
CAS No: —  
REACH Registration No: —  
**Other means of identification:** —

### 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 96030  
Fax: +49 (0) 781 57211  
Email: info@huber-online.com

**1.4 Emergency telephone number:**  
+49 (0) 61 31 1924 0 (Giftinfo Mainz, 24 h in Deutsch und Englisch)

## 2. Hazards identification

**2.1 Hazard designation**  
—

**2.2 Additional information**  
—

## 3. Composition / information on constituent elements

**3.1 Chemical characterization**  
Polydimethylsiloxanes and polyphenylmethylsiloxanes

**3.2 Hazards codes NFPA**  
Health = 1  
Flammability = 1  
Reactivity = 0

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## 4. First aid measures

### 4.1 Description of first aid measures

If the product comes into contact with the eyes, rinse with plenty of water.  
If the product comes into contact with the skin, remove it by mechanical means.  
After swallowing the product, consult a doctor.

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

Symptoms: —  
Effects: —

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

Notes for the doctor: —  
Special treatment: —

## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media  
CO<sub>2</sub>, foam, water spray jet, extinguishing powder.

## 6. Accidental release measures

### 6.1 Action if product is released unintentionally

Soak up using absorbent material such as sawdust or sand.

## 7. Handling and storage

### 7.1 Handling and storage

The HTF circuits must be closed and superimposed with nitrogen or carbon dioxide. Keep sources of ignition away.

VCI storage class: 3B

## 8. Exposure controls/personal protection

### 8.1 Personal protective equipment:

#### Eye protection

Use tightly fitting safety glasses.  
Conform to the usual requirements when handling chemicals.

## 9. Physical and chemical properties

Form:	Liquid.
Colour:	Colourless.
Odour:	Odourless.

#### Relevant safety data

Initial boiling point (IBP):	> 275°C at 1013 mbar
Solidification temperature:	< -96°C
Viscosity, at 0°C:	7,5 cSt
Viscosity, at -80°C:	130 cSt
Density:	0.92 g/cm <sup>3</sup> at 20°C
Vapour pressure:	6 mbar at 20°C

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Solubility in water:	23 mbar at 50°C
pH value:	Insoluble
Flashpoint:	neutral at 20°C
Burnpoint:	> 126°C
Ignitepoint:	> 112°C
Volume expansion:	> 420°C
Explosion limits:	12% / 100°C
Upper limit of use:	Limits not determined
	250°C

## 10. Stability and reactivity

### 10.1 Thermal decomposition

No decomposition if used according to the intended purpose.  
Cleavage products are generated in the event of local overheating during use, and these may reduce the flashpoint.

### 10.2 Hazardous products of decomposition

No hazardous products of decomposition if stored correctly.

### 10.3 Hazardous reaction

Low molecular products of decomposition may form if the material is heated in open vessels; these products may explode on ignition.

### 10.4 Further information:

In the presence of air, at temperatures from approx. 150°C upwards, formaldehyde may be formed in small amounts due to oxidative decomposition.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Polydimethylsiloxanes are physiologically harmless according to knowledge at present; however, contact with the eyes can cause clouded vision which is not dangerous and is reversible in a short period; this is due to the formation of a film of oil on the eyeball.

## 12. Ecological information

### 12.1 Ecological information

Polydimethylsiloxanes are degradable to a certain extent due to abiotic processes; no bioaccumulation is known.

Water danger class (WGK): 1 – slightly dangerous to water.

## 13. Disposal considerations

### 13.1 Notes on disposal

Can be incinerated in a suitable plant, in compliance with the local conditions imposed by the authorities.

## 14. Transport information

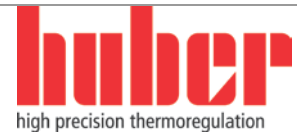
### 14.1 Transport

CAS-No.:	9016-00-6
GGVSee/IMDG code:	–
PG:	–
GGVE/GGVS: Kl.	No
ADNR:	Kl. 9
Post office dispatch Germany (gem. GGVE):	To 500 ml per interior luggage 5000 ml per parcel

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Declaration country:	Polydimethylsiloxane
Declaration lake:	—
Declaration air:	—
ICAO/IATA DGR:	Not registered
UN No.:	No
MPO:	—
RID/ADR: Kl.	No
MFAG:	—

#### Further data:

This product is not a danger property in accordance with the at present valid national and international danger property goods.

#### Other data:

From food keep separated. Weakly smelling  
Protect against wetness!

Working reliability regulations:	with water mixable
Water endangerment class:	WGK1 weakly
Water-endangering in accordance with appendix 3 VwVwS.	

## 15. Regulatory information

### 15.1 Regulations

No marking after dangerous material regulation and appropriate EG guidelines 1999/45/EG necessarily. No dangerous material or preparation in the sense of the dangerous material regulation and/or the EEC guideline 67/548/EWG or 88/379/379/EWG.

**Danger class after: A III:** Fp > 55°C to 100°C

#### REACH registration CCHA European chemicals Agency

CAS NUMBER: 9016-00-6, Name: Polydimethylsiloxane  
Tender NUMBER: KG731423-48 Pre registration NUMBERS: 05-2118800421

#### Specifications in the USA

All components of this product are led in the EPA TSCA Chemical Substance Inventory. The accurate composition is TS (trade secret).

#### Supplier information:

This product does not contain toxic chemicals, which are subject to the obligation to register of section 313 of the Emergency Planning and Community right on Know act (EPCRA) of 1986 and 40 CFR part of 372.

California pro position 65: This product does not contain chemicals, which can cause California cancer or reproductive toxicity after knowledge of the Federal State.

## 16. Other information

For use in accordance with the intended purpose, we refer to the technical description of the HTF-250 Heat Transfer Medium. The above information is based on company brochures, specialised literature and our own observations.

The information is based on the present status of knowledge and experience. The safety data sheet describes products with respect to the safety requirements. The information does not constitute a warranty of characteristics.