

Safety Data Sheet

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

Trade name: SilOil M80.100/250.03

No.: 6275, 6276

Print date: 27.12.2016

Valid from 04.2016

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 AG

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

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: —

Safety Data Sheet

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



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

Print date: 27.12.2016
Valid from 04.2016

Replaced version: 27.04.2016

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
CO₂, 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/cm³ at 20°C
Vapour pressure: 6 mbar at 20°C
23 mbar at 50°C
Solubility in water: Insoluble
pH value: neutral at 20°C
Flashpoint: > 126°C
Burnpoint: > 112°C
Ignitepoint: > 420°C
Volume expansion: 12% / 100°C
Explosion limits: Limits not determined
Upper limit of use: 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.

Safety Data Sheet

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



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

Print date: 27.12.2016
Valid from 04.2016

Replaced version: 27.04.2016

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.

10.5 Conditions to avoid

It should be borne in mind that the heat transfer fluid has a finite life and its condition must be checked regularly.

At high temperatures, Silicon Oil can be chemically altered;

- in the presence of oxidising media such as air, an increase in viscosity and possibly even gelling of the fluid owing to crosslinking reactions can be expected
- contact with products having a catalytic effect, such as acids, lyes and various metal compounds usually induces a process of depolymerisation, resulting in a drop in viscosity

The higher the operating temperature the faster these reactions take place and oxidation is particularly accelerated by use of the oil in an open bath.

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
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!

Safety Data Sheet

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



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

Print date: 27.12.2016
Valid from 04.2016

Replaced version: 27.04.2016

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.