



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Version 2.0
Revision date: 31.08.2010

TEM-Oil 300

Material: 000000-0484-955
Print Date 27.03.2012

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

Trade name : TEM-Oil 300

Manufacturer/supplier : Carl Zeiss Jena GmbH
Oberkochen location

Address : Carl-Zeiss-Straße 22
D-73447 Oberkochen

Telephone : +49 7364 20-0

Technical Information : Chemical and material engineering
Telephone : +49 7364 20-4599
Telefax : +49 7364 20-4521

Product Safety : Chemical and material engineering
Mailto : zeih@zeiss.de, hamm@zeiss.de

Emergency telephone : Poisoning Control Center
Telephone : +49 551 19240 (24 hours)

Use of the Substance / Preparation

Sector : Optical-precision engineering industry
Application category : Industrial use
Use : Lubricating oil

For application information, consult the processing instructions. Processing instructions or technical information sheet available on request.

2. Hazards identification

Classification according to Regulation (EC) No. 1272/2008 (GHS) ¹

Not a dangerous substance according to GHS.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC ²

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

For footnotes, see section 16.

3. Composition / information on ingredients

Information on the substance / preparation (mixture)

Perfluoropolyether.

4. First aid measures

General advice : Remove and wash contaminated clothing before re-use.

Inhalation : In the case of inhalation of aerosol/mist consult a physician if necessary.

Skin contact : Wash off with soap and water. Use re-greasing skin cream.

Eye contact : Immediately flush eye(s) with plenty of water. If eye irritation



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Ingestion : persists, consult a specialist.
: Rinse mouth. Do not give anything to drink or eat. Do NOT induce vomiting. Call a physician.

5. Fire-fighting measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazards caused by the substance/combustion products/origin of gases : In case of fire formation of fluorine-compounds possible. In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for fire-fighters : Standard procedure for chemical fires.
Other data : The product itself does not burn.

6. Accidental release measures

Personal precautions : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Sweep up to prevent slipping hazard.
Environmental precautions : Prevent discharge into sewerage system, soil or aquatic environment.
Removal : Soak up with inert absorbent material. Clean contaminated surface thoroughly. Adequate disposal

7. Handling and storage

Handling

Safe handling advice : Avoid contact with skin and eyes. Avoid formation of aerosol.
Advice on protection against fire and explosion : No special protective measures against fire required.

Storage

Requirements for storage areas and containers : Keep tightly closed in a dry and cool place.
Incompatibilities/not to be stored with : Do not store together with food.
German storage class : 12: Non Combustible Liquids

8. Exposure controls / personal protection

Exposure limit(s)

Note : None.

Occupational exposure controls



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Protective measures : Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday. Preventive skin protection
Respiratory protection : Not required; except in case of aerosol formation.
Hand protection : not required Avoid long and intense contact with the skin
Eye protection : Avoid contact with eyes.

Environmental exposure controls

Additional advice : see section 6

9. Physical and chemical properties

General Information

Form : liquid
Colour : colourless
Odour : odorless

Important Health Safety and Environmental Information

Pour point : ca. -60 °C (ISO 3016)
Flash point : not applicable
Density : ca. 1,85 g/cm³ at 20 °C (DIN 51757)
Water solubility : insoluble
Viscosity, kinematic : ca. 280 mm²/s at 20 °C (DIN 51562)
Viscosity, kinematic : ca. 165 mm²/s at 40 °C (DIN 51562)

10. Stability and reactivity

Hazardous reactions : None known.
No decomposition if stored and applied as directed.
Conditions to avoid : Strong heating.
Hazardous decomposition products : > 280 °C, Risk of formation of toxic pyrolysis products containing fluorine.
Additional advice : Some materials (e.g. titanium, aluminium and their alloys) may cause lower decomposition temperatures.

11. Toxicological information

Practical experience

Human experience : Prolonged skin contact may cause skin irritation and/or dermatitis.

General Information

Other information on toxicity : The product should be handled with the care usual when dealing with chemicals.



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12. Ecological information

Persistence and degradability

Biological degradability : The product is not soluble in water and may be separated mechanical.

Other environmental data

Other data : Do not discharge into sewerage system, surface water or soil.
Adequate disposal

13. Disposal considerations

Product : In accordance with local and national regulations. The product contains organic halogens.

Uncleaned packaging : Dispose of as unused product. Offer rinsed packaging material to local recycling facilities.

14. Transport information

Land transport ADR/RID

Not classified as dangerous in the meaning of transport regulations.

Sea transport IMDG

Not classified as dangerous in the meaning of transport regulations.

Air transport ICAO/IATA

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

Labelling according to Regulation (EC) No. 1272/2008 (GHS) ¹

Exempt

For footnotes, see section 16.

Labelling according to Directive 67/548/EEC or Directive 1999/45/EC ²



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The product does not need to be labelled in accordance with EC directives or respective national laws.

For footnotes, see section 16.

16. Other information

The information in this safety sheet is based on the data available at the time of compilation and is intended to describe the product with respect to the precautions to be taken in its use. This information is provided without any guarantee of the properties specified.

Update information

Relevant changes to the previous version are symbolized by vertical bars at the left edge.

Additions : Classification and Labelling according to GHS (Regulation 1272/2008)

Additional advice

Sources: Directive 67/548/EEC Annex I, TRGS 900, TRGS 903, International dangerous goods regulations, Supplier details

Footnotes:

1] Obligatory for substances from December, 01, 2010, obligatory for mixtures from June, 01, 2015.

2] Valid for substances until November, 30, 2010, valid for preparations (mixtures) until May, 31, 2015.