



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

Version 1.0  
Revision date: 15.07.2014

Material:  
Print Date 15.01.2016

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

Trade name : Immersol™ Sil 406

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 : gabriele.zeiher@zeiss.com, uwe.hamm@zeiss.com

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

**Use of the Substance / Preparation**

Sector : Life Sciences, Research and Development  
Application category : Industrial and professional use  
Use : Immersion fluid, halogen-free

**2. Hazards identification**

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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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

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)**

Polydimethylsiloxane

**4. First aid measures**

General advice : If symptoms occur or if in doubt, seek medical advice.

Inhalation : Provide with fresh air.

Skin contact : Remove immediately adhering matter. Wash off with soap and water.

Eye contact : Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.

Ingestion : Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting.



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### 5. Fire-fighting measures

- Suitable extinguishing media : Water mist, Dry chemical, Foam, Carbon dioxide (CO<sub>2</sub>), Sand  
Extinguishing media which shall not be used for safety reasons : water spray jet, High volume water jet
- Hazards caused by the substance/combustion products/origin of gases : In the event of fire and/or explosion do not breathe fumes.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### 6. Accidental release measures

- Personal precautions : No special precautions required. Sweep up to prevent slipping hazard.
- Environmental precautions : Do not let product enter drains.
- Removal : Take up mechanically and dispose of according to the local legal regulations.

### 7. Handling and storage

#### Handling

- Safe handling advice : No special handling advice required. Avoid contact with skin and eyes.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

#### Storage

- Requirements for storage areas and containers : No special storage conditions required. Do not store together with food.

#### Storage stability

- Storage temperature :  $\leq 50$  °C

### 8. Exposure controls / personal protection

#### Exposure limit(s)

- Remarks : None.

#### Occupational exposure controls

- Hygiene measures : When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Keep working clothes separately.



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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, if necessary wear eye protection.

**Environmental exposure controls**

Additional advice : see section 6

**9. Physical and chemical properties**

**General Information**

Form : liquid  
Colour : colourless, clear  
Odour : odorless

**Important Health Safety and Environmental Information**

Melting point/range : -50 °C  
Flash point : > 300 °C (ISO 2592)  
Ignition temperature : 410 °C (EN 14522)  
Density : ca. 0,97 g/cm<sup>3</sup> at 25 °C (DIN 51757)  
Water solubility : practically insoluble at 20 °C  
pH : ca. 7,0  
Viscosity, dynamic : 970 mPa.s at 25 °C

**10. Stability and reactivity**

Thermal decomposition : > 250 °C No decomposition if stored and applied as directed.  
Hazardous reactions : None known.  
Stable under normal conditions.  
Conditions to avoid : None known.  
Materials to avoid : None known.  
Hazardous decomposition products : > 150 °C, small amounts of formaldehyde

**11. Toxicological information**

**Toxicology tests**

Acute oral toxicity : LD50 rat: > 5.000 mg/kg (obtained by analogy)  
Acute dermal toxicity : LD50 rat: > 2.008 mg/kg (obtained by analogy)  
Skin irritation : rabbit  
Result: No skin irritation (obtained by analogy)  
Eye irritation : rabbit  
Result: No eye irritation (obtained by analogy)



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Sensitisation : guinea-pig  
Result: Not sensitizing. (obtained by analogy)

**General Information**

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

**12. Ecological information**

**Persistence and degradability**

Biological degradability : Not biologically degradable.  
Physico-chemical removability : The product is not soluble in water. Forms on the water surface a thin oil film. Is adsorbed by suspended particles. Separation by sedimentation.

**Other environmental data**

Other data : Ecological injuries are not known or expected under normal use. According to recent experience are no adverse effects in sewage treatment plants to be expected.

**13. Disposal considerations**

Product : Can be landfilled or incinerated, when in compliance with local regulations.  
Uncleaned packaging : In accordance with local and national regulations.

**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**



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**Labelling according to Regulation (EC) No. 1272/2008 (GHS) <sup>1</sup>**

Not applicable.

For footnotes, see section 16.

**Labelling according to Directive 67/548/EEC or Directive 1999/45/EC <sup>2</sup>**

Not applicable.

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.

**Additional advice**

Sources: Reg. 1272/2008, Annex VI, TRGS 900, Supplier details, TRGS 903, International dangerous goods regulations

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.