



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

Version 1.1
Revision date: 12.03.2019

Immorsol Sil 406

Material: 000000-0572-364
Date of last issue: 15.07.2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name : Immorsol™ Sil 406

Relevant identified uses of the substance or mixture and uses advised against

Sector : Life Sciences, Research and Development
Sector of use : Industrial and professional use
Identified uses : Immersion fluid, halogen-free

Details of the supplier of the safety data sheet

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
E-mail address : gabriele.zeiher@zeiss.com, uwe.hamm@zeiss.com

Emergency telephone number

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

SECTION 2: Hazards identification

Classification of the substance or mixture

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

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

Label elements

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

Not applicable.

Other hazards

None known.



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SECTION 3: Composition/information on ingredients

Chemical nature: Substances

Polydimethylsiloxane

SECTION 4: First aid measures

Description of 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.

Most important symptoms and effects, both acute and delayed

- Symptoms : The most important known symptoms and effects are described in section 2 and / or section 11.

SECTION 5: Firefighting measures

Extinguishing media

- Suitable extinguishing media : Water mist, Dry chemical, Foam, Carbon dioxide (CO₂), Sand
Unsuitable extinguishing media : High volume water jet

Special hazards arising from the substance or mixture

- Hazards caused by the substance/combustion products/origin of gases : In case of fire formation of hazardous vapors possible. In the event of fire and/or explosion do not breathe fumes.

Advice for firefighters

- Protective equipment : In the event of fire, wear self-contained breathing apparatus.
Protective measures : Avoid extinguishing water reaching water or ground water system. Dispose extinguishing water according the local, official regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Precautions : No special precautions required. Sweep up to prevent slipping hazard.

Environmental precautions

- Environmental precautions : Do not let product enter drains.

Methods and material for containment and cleaning up

- Removal : Take up mechanically and dispose of according to the local legal



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regulations.

Reference to other sections

Additional advice : Adequate disposal. For disposal considerations see section 13.

SECTION 7: Handling and storage

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

Use : Apart from the uses mentioned in section 1 no other specific uses are intended.

SECTION 8: Exposure controls/personal protection

Control parameters

Remarks : None.

Exposure controls

Individual protection measures, such as personal protective equipment

Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Hygiene measures : When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Keep working clothes separately.
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.
Skin and body protection : Keep working clothes separately.

Environmental exposure controls

Additional advice : see section 6

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form : liquid
Colour : colourless, clear
Odour : odorless



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Melting point/range : -50 °C
Flash point : > 300 °C (ISO 2592)
Ignition temperature : 410 °C (EN 14522)
Density : ca. 0,97 g/cm³ at 25 °C (DIN 51757)
Water solubility : practically insoluble at 20 °C
pH : ca. 7,0
Viscosity, dynamic : 1.000 mPa s at 25 °C
Viscosity, kinematic : ca. 1000 mm²/s

SECTION 10: Stability and reactivity

Reactivity

Notes : No decomposition if used as directed.

Chemical stability

Thermal decomposition : > 250 °C
Stability : Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions : None known.

Conditions to avoid

Conditions : None known.

Incompatible materials to avoid

Materials to avoid : None known.

Hazardous decomposition products

Hazardous decomposition products : > 150 °C, small amounts of formaldehyde products

SECTION 11: Toxicological information

Information on toxicological effects

Acute oral toxicity : LD50 Rat: > 5.000 mg/kg (value of literature)
Acute dermal toxicity : LD50 Rat: > 2.008 mg/kg (value of literature)
Skin irritation : Rabbit
Result: No skin irritation (value of literature)
Eye irritation : Rabbit
Result: No eye irritation (value of literature)
Sensitisation : guinea-pig
Result: Not sensitizing. (value of literature)
Specific target organ toxicity - : No data available



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single exposure

Specific target organ toxicity - repeated exposure : No significant adverse effects were reported

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Germ cell mutagenicity : In vitro tests did not show mutagenic effects

Reproductive toxicity : Animal testing did not show any effects on fertility.

Aspiration hazard : No data available

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

SECTION 12: Ecological information

Toxicity

Fish-toxicity : LC50 (Fish): > 1.000 mg/l / 96 h (value of literature)> max. solubility in water

NOEC (Oncorhynchus mykiss): > 10.000 mg/l (value of literature)28 d

Daphnia toxicity : EC50 (Daphnia magna (Water flea)): > 0,0001 mg/l / 48 h (value of literature)> max. solubility in water

NOEC (Daphnia magna (Water flea)): > 500 mg/l (value of literature)21 d

Algae toxicity : IC50 (Skeletonema costatum (marine diatom)): > 100.000 mg/l / 72 h (value of literature)

Persistence and degradability

Biological degradability : Not biodegradable

Physico-chemical removability : The product is not soluble in water. The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

Bioaccumulative potential

General Information : Bioaccumulation is unlikely.

Mobility in soil

Additional advice : Adsorbs on soil.

Results of PBT and vPvB assessment

Result Chemical Safety Report : Not applicable

Other adverse effects

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.



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SECTION 13: Disposal considerations

Waste treatment methods

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

SECTION 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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

- Seveso Directive : 2012/18/EU:
Does not fall under Seveso III - Directive / Major accident legislation.

Chemical safety assessment

Not required.

SECTION 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



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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