

according to Regulation (EC) No. 1907/2006

Version 2.2 Material:

Revision date: 12.08.2015 Print Date 14.01.2016

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

Trade name : ImmersolTM W (2010)

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 : Poisening 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 for water-immersion objectives, halogen-free, low

fluorescence

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 hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC²

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

For footnotes, see section 16.

Additional risk advice for man and the environment

Thermal decomposition can lead to release of toxic and corrosive gases.

3. Composition / information on ingredients

Information on the substance / preparation (mixture)

Modified perfluoropolyether.

4. First aid measures

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

Inhalation : Move to fresh air in case of accidental inhalation of fumes from



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overheating or combustion. Oxygen or artificial respiration if

needed. Call a physician.

Wash off with soap and water. If symptoms persist, call a Skin contact

physician.

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

persists, consult a specialist.

Rinse mouth. Do not give anything to drink or eat. Do NOT induce Ingestion

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. (see

section 10).

Special protective equipment

Wear self-contained breathing apparatus and protective suit. Use

acid-resistant protective clothing for use nearby.

for firefighters Other data

The product itself does not burn. Evacuate personnel to safe areas. Keep product and empty container away from heat and sources of ignition. Cool undamaged containers and/or remove them from the danger zone. Make sure to use protective devices!

6. Accidental release measures

Personal precautions Avoid contact with skin, eyes and clothing. Ensure adequate

ventilation. Keep away from open flames, hot surfaces and sources of ignition. Sweep up to prevent slipping hazard.

Environmental precautions Prevent discharge into sewerage system, soil or aquatic

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. Keep away from open flames,

hot surfaces and sources of ignition.

Advice on protection against

fire and explosion

No special protective measures against fire required.

Storage

Requirements for storage areas:

and containers

Store in original container. Keep tightly closed in a dry and cool

place. Keep away from direct insolation and heating sources.

Incompatibilities/not to be Do not mix with other immersion liquids. Do not store together with stored with food. Keep away from incompatible material. (see section 10).

Storage stability

Storage temperature 18 - 28 °C



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8. Exposure controls / personal protection

Exposure limit(s)

Note None.

Occupational exposure controls

Protective measures Take off all contaminated clothing immediately. Wash hands before

breaks and at the end of workday. Preventive skin protection When

using, do not eat, drink or smoke.

Not required; except in case of aerosol formation. Respiratory protection

Not required. Avoid long and intense contact with the skin Hand protection

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

Boiling point/boiling range > 250 °C

Flash point does not flash

1,674 g/cm3 at 20 °C (DIN 51757) Density

Water solubility insoluble

Viscosity, kinematic 1.020 mm2/s at 20 °C (DIN 51562) Viscosity, kinematic 820 mm2/s at 23 °C (DIN 51562) Viscosity, kinematic 320 mm2/s at 37 °C (DIN 51562)

10. Stability and reactivity

Thermal decomposition > 250 °C Hazardous reactions

None known.

No decomposition if stored and applied as directed.

Conditions to avoid To avoid thermal decomposition, do not overheat. Keep away from

flames, sparks and hot surfaces.

Materials to avoid > 100 °C, Lewis acids, magnesium powder, aluminium powder



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Hazardous decomposition

products

toxic and corrosive gases, Hydrogen fluoride, Carbonyl difluoride

Additional advice : Metals promote decomposition and reduce decomposition

temperature.

11. Toxicological information

Toxicology tests

Skin irritation : Decomposition product(s) may cause severe irritation of eyes, skin

and mucous membranes.

General Information

Other information on toxicity : No data is available on the product itself. The product should be

handled with the care usual when dealing with chemicals.

12. Ecological information

Persistence and degradability

Biological degradability : Not readily biodegradable.

Other environmental data

Other data : No data is available on the product itself. Ecological injuries are

not known or expected under normal use. Do not discharge into sewerage system, surface water or soil. Adequate disposal.

13. Disposal considerations

Product : In accordance with local and national regulations.

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.



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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/EC²

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, 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.

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