



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

Version 2.4
Revision date: 02.07.2021

Immersol™ W (2010)

Material: 000000-0522-046
Date of last issue: 02.12.2020

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

Product identifier

Product name : Immersol™ W (2010)

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 for water-immersion objectives, halogen-free, low fluorescence

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

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)

Exempt



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Other hazards

None known.
Thermal decomposition can lead to release of toxic and corrosive gases.

SECTION 3: Composition/information on ingredients

Chemical nature: Mixtures

Modified perfluoropolyether.

SECTION 4: First aid measures

Description of 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 overheating or combustion. Oxygen or artificial respiration if needed. Get medical attention.
Skin contact : Wash off with soap and water. If symptoms persist, call a physician.
Eye contact : Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
Ingestion : Rinse mouth. Do not give anything to drink or eat. Do NOT induce vomiting. Get medical attention.

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.

Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture

Hazards caused by the substance/combustion products/origin of gases : In case of fire formation of fluorine-compounds possible. (see section 10).

Advice for firefighters

Protective equipment : Wear self-contained breathing apparatus and protective suit. Use acid-resistant protective clothing for use nearby.
Protective measures : 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!



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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions : Prevent discharge into sewerage system, soil or aquatic environment.

Methods and material for containment and cleaning up

Removal : Soak up with inert absorbent material. Clean contaminated surface thoroughly.

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 : 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.

Conditions for safe storage, including any incompatibilities

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.

Advice on common storage : Do not mix with other immersion liquids. Do not store together with food. Keep away from incompatible material. (see section 10).

Storage temperature : 18 - 28 °C

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

Note : None.

Exposure controls

Individual protection measures, such as personal protective equipment

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.



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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.

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
Odour : odorless

Boiling point/boiling range : > 250 °C
Flash point : does not flash
Density : 1,674 g/cm³ at 20 °C (DIN 51757)
Water solubility : insoluble
Viscosity, kinematic : 1020 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)

SECTION 10: Stability and reactivity

Reactivity

Notes : Metals promote decomposition and reduce decomposition temperature.

Chemical stability

Thermal decomposition : > 250 °C
Stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions

Hazardous reactions : None known.

Conditions to avoid

Conditions : To avoid thermal decomposition, do not overheat. Keep away from flames, sparks and hot surfaces.

Incompatible materials to avoid

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

Hazardous decomposition products

Hazardous decomposition products : toxic and corrosive gases, Hydrogen fluoride, Carbonyl difluoride



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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	:	No data available
Skin irritation	:	Decomposition product(s) may cause severe irritation of eyes, skin and mucous membranes.
Eye irritation	:	No data available
Sensitisation	:	No data available
Specific target organ toxicity - single exposure	:	No data available
Specific target organ toxicity - repeated exposure	:	No data available
Carcinogenicity	:	No data available
Germ cell mutagenicity	:	No data available
Reproductive toxicity	:	No data available
Aspiration hazard	:	No data available
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.

SECTION 12: Ecological information

Persistence and degradability

Biological degradability : Not readily biodegradable.

Bioaccumulative potential

General Information : No data available

Mobility in soil

Behaviour in environmental compartments : No data available

Results of PBT and vPvB assessment

Result Chemical Safety Report : Not applicable

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : No data available

Other adverse effects



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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

SECTION 13: Disposal considerations

Waste treatment methods

Product : In accordance with local and national regulations.
Uncleaned empty packaging : Dispose of as unused product. Offer rinsed packaging material to local recycling facilities.

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.



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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