



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

Version 7.0
Revision date: 08.06.2021

ImmersoTM 518 F

Material: 000000-0360-890
Date of last issue: 26.11.2018

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

Product identifier

Product name : ImmersoTM 518 F
UFI : 4Y00-R0DY-1007-3VF3

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 oil for fluorescence-microscopy, 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)

Skin Irrit. 2, H315 : Causes skin irritation.
Aquatic Chronic 3, H412 : Harmful to aquatic life with long lasting effects.

Label elements

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



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Hazard pictograms



Signal word: Warning

Hazard statements

H315 : Causes skin irritation.
H412 : Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 : Avoid release to the environment.
P280 : Wear protective gloves.
P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.

Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical nature: Mixtures

Halogen-free immersion oil based on ester oil.

Hazardous components

Substance name	Number(s)	Concentration	Classification
Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester	Registration number: 01-0000017636-64 EC-No.: 430-080-6 CAS-No.: 195371-10-9	35,00 - 40,00%	Skin Irrit. 2 , H315
Succinic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester	CAS-No.: 195371-13-2	30,00 - 35,00%	Skin Irrit. 2 , H315
Benzyl benzoate	Registration number: 01-2119976371-33 EC-No.: 204-402-9 CAS-No.: 120-51-4 Index-No.: 607-085-00-9	15,00 - 20,00%	Acute Tox. 4 , H302 Aquatic Acute 1 , H400 Aquatic Chronic 2 , H411

For the full text of the Hazard statements, see section 16.



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SECTION 4: First aid measures

Description of 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 plenty of water. In the case of skin irritation or allergic reactions see 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 : Carbon dioxide (CO₂), Dry chemical, Foam, Sand, Water spray jet
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 carbonoxides and other toxic gases/vapors is possible.

Advice for firefighters

- Protective equipment : In the event of fire, wear self-contained breathing apparatus.
Protective measures : Use water spray to cool unopened containers. Avoid extinguishing water reaching water, ground water or sewage system.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Precautions : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Risk of slipping because of leaked / spilled product

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.



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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.
Advice on protection against fire : Keep away from open flames, hot surfaces and sources of ignition. and explosion

Conditions for safe storage, including any incompatibilities

Requirements for storage areas : Store at room temperature in the original container. Keep tightly and containers closed.
Advice on common storage : Keep away from food and drink. Do not mix with other immersion liquids.

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 : Avoid contact with skin, eyes and clothing.
Hygiene measures : Take off all contaminated clothing immediately. When using, do not eat, drink or smoke.
Respiratory protection : Not required; except in case of aerosol formation.
Hand protection : Avoid contact with skin. Use protective gloves which have been adapted to the respective purpose and are appropriately resistant to chemicals (DIN EN 374). Ask the glove supplier for the penetration time of the glove material.
Eye protection : Avoid contact with eyes.
Skin and body protection : closed work clothing

Environmental exposure controls

Additional advice : see section 6

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form : liquid



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Colour : colourless
Odour : slight aromatic

Boiling point/boiling range : ca. 320 °C
Flash point : 249 °C (ISO 2592)
Vapour pressure : < 0,1 hPa at 20 °C
Density : 1,093 g/cm³ at 20 °C (DIN 51757)
Water solubility : insoluble
pH : Not applicable
Viscosity, kinematic : 445 mm²/s at 20 °C (DIN 51562)

SECTION 10: Stability and reactivity

Reactivity

Notes : No data available

Chemical stability

Stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions

Hazardous reactions : None known.

Conditions to avoid

Conditions : Heat, open flames and other sources of ignition.

Incompatible materials to avoid

Materials to avoid : Oxidizing agents

Hazardous decomposition products

Hazardous decomposition products : None known.

Hazardous decomposition products in the event of fire : In case of fire formation of carbonoxides and other toxic gases/vapors is possible.

SECTION 11: Toxicological information

Information on toxicological effects

Acute oral toxicity : Acute toxicity estimate : 10.578 mg/kg
Skin irritation : Irritating to skin.
Eye irritation : May irritate eyes.
Specific target organ toxicity - single exposure : No data available
Specific target organ toxicity - : No data available



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repeated exposure
Carcinogenicity : No data available
Germ cell mutagenicity : No data available
Reproductive toxicity : No data available
Aspiration hazard : No data available
Other information on toxicity : The mixture itself is not examined. The data refer to the specifications of the ingredients. Health injuries are not known or expected under normal use. The product should be handled with the care usual when dealing with chemicals.

SECTION 12: Ecological information

Persistence and degradability

Biological degradability : No data available

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 : Harmful to aquatic life with long lasting effects.

Other adverse effects

Other data : Ecological injuries are not known or expected under normal use. Do not discharge into sewerage system, surface water or soil.

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.



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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

EU-Regulations

- Seveso Directive : 2012/18/EU:
Does not fall under Seveso III - Directive / Major accident legislation.
- Restrictions : 92/85/EWG:
Follow Directive 92/85/EC on the protection of pregnant workers and workers who have recently given birth or are breastfeeding, and its national implementations.
- : 94/33/EG:
Follow Directive 94/33/EC on the protection of young people at work and its national implementations.

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

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



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Additions : UFI (Unique Formula Identifier)

Full text of Hazard statements mentioned in Section 3

H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H400 : Very toxic to aquatic life.
H411 : Toxic to aquatic life with long lasting effects.

Additional advice

Classification procedure: Generic / specific concentration limits for classification, Calculation method on the components

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