



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

Version 3.0
Revision date: 10.03.2021

Immersol 518 F / 30°C

Material: 000000-0559-055
Date of last issue: 04.12.2018

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

Product identifier

Product name : Immersol™ 518 F / 30 °C
UFI : RP20-V06W-5004-AQ3D

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

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

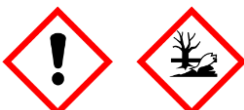
Classification according to Regulation (EC) No. 1272/2008 (CLP)

Skin Irrit. 2, H315 : Causes skin irritation.
Aquatic Chronic 2, H411 : Toxic to aquatic life with long lasting effects.

Label elements

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

Hazard pictograms





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Signal word: Warning

Hazard statements

H315 : Causes skin irritation.
H411 : Toxic 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	30,00 - 35,00%	Skin Irrit. 2 , H315
Succinic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester	CAS-No.: 195371-13-2	25,00 - 30,00%	Skin Irrit. 2 , H315
Bis (isopropyl) naphthalene	Registration number: 01-2119565150-48 EC-No.: 254-052-6 CAS-No.: 38640-62-9	15,00 - 20,00%	Asp. Tox. 1 , H304 Aquatic Chronic 1 , H410

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

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.



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- 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.

Reference to other sections

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

SECTION 7: Handling and storage

Precautions for safe handling



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Safe handling advice : Avoid contact with skin and eyes.
Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container. Keep tightly 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 : Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday. Preventive skin protection
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, if necessary wear eye protection.
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
Colour : colourless
Odour : slight aromatic

Boiling point/boiling range : > 250 °C
Flash point : 218 °C (open cup)
Density : 1,009 g/cm³ at 20 °C (DIN 51757)
Water solubility : insoluble



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pH : Not applicable
Viscosity, kinematic : 320 mm²/s at 40 °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 : Protect from heat, heating sources and direct insolation.

Incompatible materials to avoid

Materials to avoid : Oxidizing agents

Hazardous decomposition products

Hazardous decomposition products : No decomposition if used as directed.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity : No data available
Skin irritation : Irritating to skin.
Eye irritation : May irritate eyes.
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 : The classification criteria are not met by the available data.
Other information on toxicity : No data is available on the product itself. The product is classified in accordance with EC directive / regulation. Handle in accordance with good industrial hygiene and safety practice.



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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

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

Other adverse effects

Other data : No data is available on the product itself. The product is classified in accordance with EC directive / regulation. 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

Hazard class : 9 UN number : 3082 Packaging group : III

Classification Code : M6 Tunnel restriction code : (E)

Labels : 9

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.



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Technical name(s) : (Bis (isopropyl) naphthalene, mixture)

Sea transport IMDG

Hazard class : 9 UN number : 3082 Packaging group : III
EmS : F-A, S-F

Environmental hazards : Marine pollutant

Labels : 9

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical name(s) : (BIS (ISOPROPYL) NAPHTHALENE, MIXTURE)

Air transport ICAO/IATA

Hazard class : 9 UN number : 3082 Packaging group : III

Labels : 9

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

Technical name(s) : (Bis (isopropyl) naphthalene, mixture)

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:
Falls under Seveso III - Directive / Major accident legislation.
Number: 1.3.2 - E2

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.



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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.

Additions : UFI (Unique Formula Identifier)

Full text of Hazard statements mentioned in Section 3

H304 : May be fatal if swallowed and enters airways.
H315 : Causes skin irritation.
H410 : Very toxic to aquatic life with long lasting effects.

Additional advice

Classification procedure: Generic / specific concentration limits for classification

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