



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

Version 4.0
Revision date: 09.03.2021

ImmersoTM M

Material: 000000-0488-362
Date of last issue: 30.07.2015

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

Product identifier

Product name : ImmersoTM M
UFI : HT10-T09X-3006-Q98R

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

Sector : Optical-precision engineering industry
Sector of use : Industrial and professional use
Identified uses : Immersion oil for metallography, 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)

Eye Irrit. 2, H319 : Causes serious eye 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

H319 : Causes serious eye irritation.
H412 : Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 : Avoid release to the environment.
P280 : Wear protective gloves / eye protection.
P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical nature: Mixtures

Hazardous components

Substance name	Number(s)	Concentration	Classification
Octahydro-4,7-methano-1H-indene-5-methanol	Registration number: 01-2120767048-48 EC-No.: 250-561-2 CAS-No.: 57526-50-8	60,00 - 70,00%	Eye Irrit. 2 , H319
Oxidipropyl dibenzoate	Registration number: 01-2119529241-49 EC-No.: 248-258-5 CAS-No.: 27138-31-4	20,00 - 30,00%	Aquatic Chronic 3 , H412

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. If symptoms persist, call a physician.
Eye contact : Immediately flush eye(s) with plenty of water. Consult a physician.
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. Provide sufficient air exchange and/or exhaust in work rooms.
Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep tightly closed in a dry and cool place. Keep away from direct insolation and heating sources.
Advice on common storage : Do not store together with food. Do not store together with oxidizing agents.

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 : Provide sufficient air exchange and/or exhaust in work rooms.
Hand protection : Avoid contact with skin. Protective gloves recommended. 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 : aromatic

Boiling point/boiling range : > 200 °C
Flash point : 164 °C (ISO 2592)
Density : 1,067 g/cm³ at 20 °C (DIN 51757)



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Water solubility : insoluble
pH : Not applicable
Viscosity, kinematic : 339 mm²/s at 20 °C (DIN 51562)
Viscosity, kinematic : 263 mm²/s at 23 °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 : No decomposition if used as directed.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity : No data available
Skin irritation : None known.
Eye irritation : Irritating to eyes.
Sensitisation : None known.
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 is classified in



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accordance with EC directive / regulation. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

Persistence and degradability

Biological degradability :

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 : 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

Not classified as dangerous in the meaning of transport regulations.

Sea transport IMDG



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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.

Additions : UFI (Unique Formula Identifier)

Full text of Hazard statements mentioned in Section 3

H319 : Causes serious eye irritation.
H412 : Harmful to aquatic life with long lasting effects.

Additional advice

Classification procedure: Generic / specific concentration limits for classification



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