

Version 4.0 Revision date: 03.04.2012 Material: Print Date 22.02.2013

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

Trade name	:	Immersol [™] 518 N			
Manufacturer/supplier Address	:	Carl Zeiss Jena GmbH Oberkochen location Carl-Zeiss-Straße 22			
Telephone	:	D-73447 Oberkochen +49 7364 20-0			
Technical Information Telephone Telefax	: : :	Chemical and material engineering +49 7364 20-4599 +49 7364 20-4521			
Product Safety Mailto	:	Chemical and material engineering zeiher@zeiss.de, hamm@zeiss.de			
Emergency telephone number Telephone	:	Poisening Control Center +49 551 19240 (24 hours)			
Use of the Substance / Preparation					
Sector Application category	:	Life Sciences, Research and Development Industrial and professional use			

2. Hazards identification

Use

Classification according to Regulation (EC) No. 1272/2008 (GHS)¹

Skin irritation, Category 2 H315: Causes skin irritation

Classification procedure: Conversion table (Regulation 1272/2008, Annex VII), Calculation method on the components

Immersion oil for microscopy, halogen-free

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

Xi: Irritant R38: Irritating to skin.

For footnotes, see section 16.

3. Composition / information on ingredients

Hazardous components

Description	Number(s)	Concentration	Symbol(s) Pictogram(s)	R-phrase(s) Hazard statements
Adipic acid-di(8-methyl-tricyclo(5.2. 1.0.2.6.) decane) ester	Registration NumberREACH: 01-0000017636-64-0	40,00 - 45,00%	Xi	R38



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	000 EC: CAS: 195371-10-9			
			♦	H315
Bis (isopropyl) naphthalene	EC: 254-052-6 CAS: 38640-62-9	20,00 - 25,00%		R53
			\$	H304, H413

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

4. First aid measure	e e e e e e e e e e e e e e e e e e e
General advice	: Remove and wash contaminated clothing before re-use.
Inhalation	 Provide with fresh air. 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	 Rinse immediately with plenty of water for at least 5 minutes. If symptoms persist, call a physician.
Ingestion	: Rinse mouth. Only trained first-aid staff may induce vomiting. Consult a physician.

5. Fire-fighting measures	;	
Suitable extinguishing media Extinguishing media which shall not be used for safety reasons	:	Carbon dioxide (CO2), Dry chemical, Foam, water spray jet High volume water jet
Hazards caused by the substance/combustion products/origin of gases Special protective equipment for firefighters	:	In case of fire formation of carbonoxides and other toxic gases/vapors is possible. In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures			
Personal precautions Environmental precautions	 Avoid contact with skin, eyes and clothing. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. 		
Removal	 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. 		

7. Handling	and	storage
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Handling			
Safe handling advice Advice on protection against fire and explosion	:	Avoid contact with skin and eyes. Normal measures for preventive fire	e protection.
Storage			
Requirements for storage areas and containers Incompatibilities/not to be stored with	:	Keep only in the original container. from direct insolation. Keep away from food and drink. Do liquids.	
Storage stability			
Storage temperature	:	12 - 28 °C	

8. Exposure controls / personal protection

Exposure limit(s)

Note	:	None.

Occupational exposure controls

Protective measures	:	Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
Respiratory protection Hand protection	:	Not required; except in case of aerosol formation. 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 Skin and body protection	:	Avoid contact with eyes, if necessary wear eye protection. Keep working clothes separately.

Environmental exposure controls

Additional advice	:	see section 6

9. Physical and chemical properties

General Information

Form	:	liquid
Colour	:	colourless
Odour	:	slight aromatic

Important Health Safety and Environmental Information

Boiling point/boiling range	:	> 250 °C
Flash point	:	180 °C (ISO 2592)



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Density	:	0,972 g/cm3 at 20 °C (DIN 51757)
Water solubility	:	insoluble	
Viscosity, kinematic	:	840 mm2/s at 23 °C (DIN 51562)	
Viscosity, kinematic	:	245 mm2/s at 40 °C (DIN 51562)	

10. Stability and reactivity

Thermal decomposition	:	No decomposition if stored and applied as directed.
Hazardous reactions	:	None known.
Conditions to avoid	:	Protect from heat, heating sources and direct insolation.
Hazardous decomposition products	:	None known.
Hazardous decomposition products in the event of fire	:	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. Toxicological information

Toxicology tests		
Skin irritation	:	Irritating to skin.
Eye irritation	:	None known.
Sensitisation	:	None known.
General Information		
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. Health injuries are not known or expected under normal use.

12. Ecological information

Other environmental	data

Other data

: No data is available on the product itself. Do not discharge into sewerage system, surface water or soil. Adequate disposal Ecological injuries are not known or expected under normal use.

13. Disposal consideration	ons	
Product	:	In accordance with local and national regulations.
Uncleaned packaging	:	Dispose of as unused product.



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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.

15. Regulatory information

Labelling according to Regulation (EC) No. 1272/2008 (GHS)¹



Signal word: Warning

Hazard statements H315	:	Causes skin irritation
Precautionary statements		
P280 P302 + P352	:	Wear protective gloves. IF ON SKIN: Wash with plenty of soap and water.

For footnotes, see section 16.

Xi

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

Letter(s) for the symbol(s) and indications of danger



: Irritant

R-phrase	(s)
R38	

: Irritating to skin.



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S-phrase(s) S37	:	Wear suitable gloves.	
For footnotes, see section 16.			
EU-Regulations			
Seveso Directive II	:	96/82/EG: Does not fall under Sev accident legislation	eso II - Directive / Major
Restrictions	:	92/85/EWG: Follow Directive 92/85/EC on the p and workers who have recently giv and its national implementations. 94/33/EG: Follow Directive 94/33/EC on the p work and its national implementation	ven birth or are breastfeeding, protection of young people at

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 : Classification and Labelling according to GHS (Regulation 1272/2008)

Full text of R-phrases mentioned in Section 3

- R38 : Irritating to skin.
- R53 : May cause long-term adverse effects in the aquatic environment.

Full text of Hazard statements mentioned in Section 3

H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation
H413	:	May cause long lasting harmful effects to aquatic life.

Additional advice

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

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.