

Version 2.0 Revision date: 27.04.2012 Prin

Material: Print Date 22.05.2014

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

Trade name	:	Immersol [™] HI 1,66		
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 Only for research and development		

2. Hazards identification

Use

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

1

According to current knowledge, not applicable.

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

According to current knowledge, not applicable.

For footnotes, see section 16.

3. Composition / information on ingredients

Information on the substance / preparation (mixture)

Preparation (mixture) based on thio-ester.

Hazardous components

Description	Number(s)	Concentration	Symbol(s) Pictogram(s)	R-phrase(s) Hazard statements
Diphenyl sulphide	EC: 205-371-4 CAS: 139-66-2	2,00 - 5,00%	Xn	R22-R38
			♦	H302, H315

High refractive index Immersion oil, halogen-free

For the full text of the R phrases, see section 16



Version 2.0 Revision date: 27.04.2012 Material: Print Date 22.05.2014

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

4. First aid measure	S
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. Consult 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. (see section 10). In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. Accidental release measures			
Personal precautions	:	Avoid contact with skin, eyes and clothing. Use personal protective equipment.	
Environmental precautions	:	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

Handling

Safe handling advice Advice on protection against fire and explosion	:	Avoid contact with skin and eyes. Wear personal protective equipment. Normal measures for preventive fire protection.
Storage		
Requirements for storage areas and containers Incompatibilities/not to be	:	Keep only in the original container. Keep tightly closed. Protect from direct insolation. Keep away from food and drink. Keep away from incompatible



Version 2.0			Materia
Revision date: 27.04.2012			Print Date 22.05.201
stored with		material.	
Storage stability			
Storage temperature	:	12 - 28 °C	
8. Exposure controls /	perso	onal protection	
Exposure limit(s)			
Note	:	None.	
Occupational exposure co	ntrols		
Protective measures	:	Avoid contact with skin, eyes and c clothing immediately. When using hands before breaks and at the en	do not eat, drink or smoke. Wash
Respiratory protection	:	Not required; except in case of aer	osol formation.
Hand protection		Use protective gloves which have	been adapted to the respective

	 purpose and are appropriately resistant to chemicals (DIN EN 374). The "Regulations for the use of protective gloves" (BGR 195) contain information on what gloves to choose and for what purpose they should be used. Ask the glove supplier for the penetration time of the glove material. Glove material: e.g. butyl rubber Layer thickness: 0,7 mm Break through time: > 480 min (in full contact) Glove material: e.g. nitrile rubber Layer thickness: 0,4 mm Break through time: > 30 min (in splash contact)
Eye protection :	Safety glasses
Skin and body protection :	closed work clothing, Keep working clothes separately.

Environmental exposure controls

Additional advice : see section 6

9. Physical and chemical properties

General Information

Form	:	liquid
Colour	:	yellow
Odour	:	characteristic slight

Important Health Safety and Environmental Information

Boiling point/boiling range	:	> 250 °C
Flash point	:	> 120 °C (open cup)



Version 2.0				Material:
Revision date: 27.04.2012			Print Date	22.05.2014
Density	:	1,17 g/cm3 at 20 °C (DIN 51757)		
Water solubility	:	insoluble		
Viscosity, kinematic	:	370 mm2/s at 20 °C (DIN 51562)		

10. Stability and reactivity

Thermal decomposition Hazardous reactions Conditions to avoid Materials to avoid	:	No decomposition if stored and applied as directed. None known. Protect from heat, heating sources and direct insolation. Strong acids and strong bases, Oxidizing agents
Hazardous decomposition products	:	None known.
Hazardous decomposition products in the event of fire	:	Carbon monoxide, carbon dioxide, not completely burned hydrocarbons, hydrogensulphide, Sulphur oxides, and other toxic gases and vapors

1	1	۱.	Т	0	X	ic	0	lc	0	ii(са	I.	in	fc	r	'n	าส	ti	ic	or	h
				v	~		U	I.C	' Y		60			I C			10				

General Information

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.					

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				

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

14. Transport information

Land transport ADR/RID

Not classified as dangerous in the meaning of transport regulations.



Version 2.0 Revision date: 27.04.2012

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

Not applicable.

Special labelling of certain mixtures

Safety data sheet available on request.

For footnotes, see section 16.

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

Not applicable.

Special labelling of certain preparations

Safety datasheet available on request for professional users.

For footnotes, see section 16.

EU-Regulations

Seveso Directive II

96/82/EG: Does not fall under Seveso II - Directive / Major accident legislation

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)

Material: Print Date 22.05.2014



Version 2.0 Revision date: 27.04.2012

Material: Print Date 22.05.2014

Full text of R-phrases mentioned in Section 3

R22 Harmful if swallowed. :

Irritating to skin. R38 :

Full text of Hazard statements mentioned in Section 3

H302 Harmful if swallowed. H315 Causes skin irritation •

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.



authorized dealer: Pulch + Lorenz microscopy Am Untergrün 23, D-79232 March tel: 07665 9272-0 07665 9272-20 fax: mail: kontakt@pulchlorenz.de