

SAFETY DATA SHEET

according to EC directive 91/155/EC



Version 3.0

Immersol (TM) 518 N

Material: 000000-0424-187

Revision date: 02.02.2004

print date: 11.04.2008

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

Trade name : IMMERSOL (TM) 518 N

Manufacturer/supplier : Carl Zeiss
Address : Carl-Zeiss-Straße 22
D-73447 Oberkochen

Telephone : +49(0)7364/20-0

Contact for information : Forschung & Technologie; Technologie Chemie (FT-TC)
Telephone : +49(0)7364/20-4599
Telefax : +49(0)7364/20-4521
:

Emergency telephone : Poisioning Control Center
number : +49(0)551/19240

Use of the Substance / Preparation

For application information, consult the processing instructions. Processing instructions or technical information sheet available on request.

2. Composition / information on ingredients

Chemical characterization

Synonyms :
CAS-No. :
EC-No. :
INDEX No. :

Hazardous components

Description	Number	Concentration	Symbol(s)	R-phrase(s)
Di-(TCD-Methylol)-adipate	CAS: 195371-10-9 EC:	40,00 - 50,00%	Xi	R38

3. Hazards identification

Classification

Irritating to skin.

4. First aid measures

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.

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5. Fire-fighting measures

- Suitable extinguishing media : carbon dioxide (CO₂), dry chemical, foam, water spray jet
- Extinguishing media which must not be used for safety reasons : high volume water jet
- Hazards caused by the substance/combustion products/origin of gases : In case of fire formation of carbonoxides and other toxic gases/vapors possible. In the event of fire and/or explosion do not breathe fumes.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

- Personal precautions : Avoid contact with skin, eyes and clothing.
- 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 : Avoid contact with skin and eyes.
- Advice on protection against fire and explosion : normal measures of preventive fire protection

Storage

- Requirements for storage areas and containers : Keep only in the original container. Keep tightly closed. Protect from direct insolation.
- Incompatibilities/not to be stored with : Keep away from food and drink. Do not mix with other immersion liquids.

Storage stability

- Storage temperature : 12 - 28 °C

8. Exposure controls / personal protection

Exposure limit(s)

Components	CAS-No.	Value	Basis	Concentration
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- 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.

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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	:	safety glasses, Avoid contact with eyes.
Skin and body protection	:	Keep working clothes separately.

9. Physical and chemical properties

General Information

Form	:	liquid
Colour	:	colourless
Odour	:	slight aromatic

Important Health Safety and Environmental Information

Boiling point/range	:	> 250 °C
Flash point	:	185 °C (ISO 2592)
Density	:	0,968 g/cm ³ at 20 °C (DIN 51757)
Water solubility	:	insoluble
Viscosity, kinematic	:	1.060 mm ² /s at 20 °C (DIN 51562)
Viscosity, kinematic	:	245 mm ² /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, In case of fire formation of carbonoxides and other toxic gases/vapors possible.

11. Toxicological information

Skin irritation	:	Irritating to skin.
Eye irritation	:	May cause eye irritation.
Sensitization	:	None known
Other information on toxicity	:	No data is available on the product itself. The product is classified in accordance with the EC directive 1999/45/EEC (hazardous preparations). Handle in accordance with good industrial hygiene and safety practice. Health injuries are not known or expected under normal use.

12. Ecological information

Further Information

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

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

Class : UN-No : Packaging group :

Labels :

Description of the goods :

Sea transport IMDG

|| Class : 9 UN-No : 3082 Packaging group : III
EmS : F-A, S-F Marine pollutant : P

Labels : 9

|| Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Diisopropylnaphthalenes, mixed isomers)

Air transport ICAO/IATA

Class : UN-No : Packaging group :

Labels :

Proper shipping name :

Other information

ADR, IATA_C, IATA_P : Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

Labelling name

Code letter and hazard labeling of product

Xi Irritant

Hazardous components which must be listed on the label:

R-phrase(s)

R38 : Irritating to skin.

S-phrase(s)

S37 : Wear suitable gloves.

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EC-No. :

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.

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

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Text of R phrases mentioned in Section 2

R38 : Irritating to skin.