



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

Version 9.0

ImmersoI™ 518 F

Material: 000000-0360-890

Revision: 09.03.2026

Date of last issue: 28.05.2024

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

#### 1.1 Product identifier

Product name : ImmersoI™ 518 F

Unique Formula Identifier (UFI) : 4Y00-R0DY-1007-3VF3

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

Use of the Sub-stance/Mixture : Life Sciences, Scientific research and development  
Industrial use, Professional use  
Immersion oil for fluorescence-microscopy, halogen-free, low fluorescence

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

#### 1.3 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 : SDS@zeiss.com

#### 1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number) : GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.  
Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H315 Causes skin irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P273 Avoid release to the environment. P280 Wear protective gloves. <b>Response:</b> P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Halogen-free immersion oil based on ester oil.

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester	195371-10-9 430-080-6	Skin Irrit. 2; H315	>= 30 - < 50
Succinic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester	195371-13-2	Skin Irrit. 2; H315	>= 30 - < 50



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benzyl benzoate	120-51-4 204-402-9 607-085-00-9 01-2119976371-33	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 <hr/> M-Factor (Acute aquatic toxicity): 1 <hr/> Acute toxicity esti- mate <hr/> Acute oral toxicity: 1,680 mg/kg	>= 10 - < 20
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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Remove and wash contaminated clothing before re-use.
- If inhaled : In the case of inhalation of aerosol/mist consult a physician if necessary.
- In case of skin contact : Wash off with soap and plenty of water.  
In the case of skin irritation or allergic reactions see a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth.  
Do not give anything to drink or eat.  
Do NOT induce vomiting.  
Get medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.



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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Foam  
Sand  
Water spray jet

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : In case of fire formation of carbonoxides and other toxic gases/vapours is possible.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin, eyes and clothing.  
Ensure adequate ventilation.  
Risk of slipping because of leaked / spilled product.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.  
Clean contaminated surface thoroughly.

#### 6.4 Reference to other sections

Adequate disposal, For disposal considerations see section 13.



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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes.  
Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.  
Hygiene measures : Take off all contaminated clothing immediately. When using, do not eat, drink or smoke.

#### 7.2 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.

#### 7.3 Specific end use(s)

- Specific use(s) : Apart from the uses mentioned in section 1 no other specific uses are intended.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

##### Personal protective equipment

- Eye/face protection : Avoid contact with eyes.  
Hand protection  
Remarks : Avoid contact with skin. Wear suitable gloves. Request information on glove permeation properties from the glove supplier.  
Skin and body protection : Impervious clothing  
Respiratory protection : Not required; except in case of aerosol formation.  
Protective measures : Avoid contact with skin, eyes and clothing.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

- Physical state : liquid



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Form	:	liquid
Colour	:	colourless
Odour	:	slight, aromatic
Boiling point/boiling range	:	ca. 320 °C
Flash point	:	249 °C Method: ISO 2592
pH	:	Not applicable
Viscosity Viscosity, kinematic	:	445 mm <sup>2</sup> /s (20 °C) Method: DIN 51562
Solubility(ies) Water solubility	:	insoluble
Vapour pressure	:	< 0.1 hPa (20 °C)
Density	:	1.093 g/cm <sup>3</sup> (20 °C) Method: DIN 51757

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat.  
Keep away from direct sunlight.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents



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### 10.6 Hazardous decomposition products

In case of fire formation of carbonoxides and other toxic gases/vapours is possible.

Hazardous decomposition products : None known.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

#### Components:

##### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: Directive 96/54/EG, B.1

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

##### **benzyl benzoate:**

Acute oral toxicity : LD50 (Rabbit): 1,680 mg/kg  
Acute toxicity estimate: 1,680 mg/kg  
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit): 4,000 mg/kg

#### **Skin corrosion/irritation**

Causes skin irritation.

#### Components:

##### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Species : Rabbit  
Exposure time : 4 h  
Method : Directive 92/69/EWG, B.4  
Result : Skin irritation

##### **Succinic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**



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Result : Skin irritation

### **benzyl benzoate:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Components:**

#### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Species : Rabbit  
Method : Directive 92/69/EWG, B.5  
Result : No eye irritation

### **benzyl benzoate:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Species : Guinea pig  
Method : Richtlinie 96/54/EG, B.6  
Result : Does not cause skin sensitisation.

### **benzyl benzoate:**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative

### **Germ cell mutagenicity**

Not classified based on available information.



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### Components:

#### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Germ cell mutagenicity- Assessment : Cytogenetic test (chromosome aberration), chinese hamster: No reference to mutagenic effects. (OECD TG 473)

Ames-Test, salmonella typhimurium: No reference to mutagenic effects. (EEC B 14)

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

### Components:

#### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Repeated dose toxicity - Assessment : NOAEL oral, rat: 500 mg/kg (Testing period: 28 d, Subsequent observation period: 48 d, OECD TG 407)

#### **Aspiration toxicity**

Not classified based on available information.

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Further information**

#### Product:

Remarks : Health injuries are not known or expected under normal use. Handle in accordance with good industrial hygiene and safety practice.



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### Components:

#### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Remarks : Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### Components:

#### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 5.4 mg/l  
Exposure time: 96 h  
Method: Directive 92/69/EWG C.1  
Remarks: No toxicity at the limit of solubility

LC0 (Cyprinus carpio (Carp)): >= 5.40 mg/l  
Exposure time: 96 h  
Method: Directive 92/69/EWG C.1  
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 6.1 mg/l  
Exposure time: 48 h  
Method: Directive 92/69/EWG C.2  
Remarks: No toxicity at the limit of solubility

EC0 (Daphnia (water flea)): >= 6.10 mg/l  
Exposure time: 48 h  
Method: Directive 92/69/EWG C.2  
Remarks: No toxicity at the limit of solubility

NOEC (Daphnia (water flea)): 1.6 mg/l  
Exposure time: 504 h  
Analytical monitoring: yes  
Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 3.6 mg/l  
Exposure time: 72 h  
Method: Directive 92/69/EWG C.3  
Remarks: No toxicity at the limit of solubility



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NOEC (Desmodesmus subspicatus (green algae)):  $\geq 3.6$  mg/l

Exposure time: 72 h

Method: Directive 92/69/EWG C.3

Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms : EC10 (activated sludge):  $> 1,000$  mg/l  
Exposure time: 3 h  
Method: EG L133/118 (5.88)  
Remarks: No toxicity at the limit of solubility

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### benzyl benzoate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2.32 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.09 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 0.26 mg/l

Exposure time: 21 DAY

Test Type: semi-static test

Method: OECD Test Guideline 211

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.475 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge):  $> 10,000$  mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209



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### 12.2 Persistence and degradability

#### Components:

##### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 13 %  
Exposure time: 28 days  
Method: Modified Sturm Test

##### **benzyl benzoate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 94 %  
Exposure time: 28 days

### 12.3 Bioaccumulative potential

#### Components:

##### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Partition coefficient: n- : log Pow: 8.9 (25 °C)  
octanol/water Method: Directive 92/69/EWG A.8

##### **benzyl benzoate:**

Partition coefficient: n- : log Pow: ca. 3.97 (25 °C)  
octanol/water

### 12.4 Mobility in soil

#### Components:

##### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Distribution among environ- : Medium: Soil  
mental compartments Koc: 50000  
Method: OECD Test Guideline 121

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components consid-



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ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : Should not be released into the environment.  
Adequate disposal

#### Components:

##### **Adipic acid-di(8-methyl-tricyclo (5.2.1.0.2.6.) decane) ester:**

Additional ecological information : Do not flush into surface water or sanitary sewer system.  
Adequate disposal

##### **benzyl benzoate:**

Additional ecological information : Do not flush into surface water or sanitary sewer system.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.  
Contaminated packaging : Dispose of as unused product.  
Offer rinsed packaging material to local recycling facilities.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.2 UN proper shipping name

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good



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### 14.3 Transport hazard class(es)

<b>ADR</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA</b>	:	Not regulated as a dangerous good

### 14.4 Packing group

<b>ADR</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA (Cargo)</b>	:	Not regulated as a dangerous good
<b>IATA (Passenger)</b>	:	Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	:	Not applicable



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### 15.2 Chemical safety assessment

Not required.

## SECTION 16: Other information

### Full text of H-Statements

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H400	:	Very toxic to aquatic life.
H411	:	Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Skin Irrit.	:	Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet;



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SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information : complete revision  
Sources of key data used to compile the Safety Data Sheet : Reg. 1272/2008, Annex VI  
TRGS 900  
TRGS 903  
International dangerous goods regulations  
Supplier details

### Classification of the mixture:

Skin Irrit. 2 H315  
Aquatic Chronic 3 H412

### Classification procedure:

Calculation method  
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

MT / EN