

# Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FHB II-P

Revision Date: 31.07.2020

Version: 2/en

**fischer** 

Replaces version from: 18.06.2020

Print date: 31.07.2020

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

### **1.1 Product identifier**

Commercial Product Name **FHB II-P**  
Unique Formula Identifier (UFI) 5M30-E0RR-X00D-MPW2

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

Relevant identified uses mounting material  
Recommended restrictions Observe technical data sheet.

### **1.3 Details of the supplier of the safety data sheet**

Company designation fischerwerke GmbH & Co. KG  
Klaus-Fischer-Straße 1  
D-72178 Waldachtal  
Telephone: +49(0)7443 12-0  
FAX: +49(0)7443 12-4222  
Email: info-sdb@fischer.de  
Internet: www.fischer.de

Marketer Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd  
Hithercroft Road  
Wallingford, Oxfordshire, OX10 9AT  
Telephone: +44 01491 827 920  
FAX: +44 01491 827 950  
Internet: www.fischer.co.uk

### **1.4 Emergency telephone number**

Emergency telephone number +49(0)6132-84463 (24h)

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 Skin Sens. 1; H317 Aquatic Chronic 2; H411

### **2.2 Label elements**

Hazard pictogram



GHS07



GHS09

Signal word

Warning

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Hazardous component(s) to be indicated on label tetramethyldimethacrylat , 2-hydroxypropyl methacrylate , dibenzoyl peroxide

H-statement(s) H317: May cause an allergic skin reaction.  
H411: Toxic to aquatic life with long lasting effects.

P-statement(s) P280: Wear protective gloves/protective clothing/eye protection/face protection.

## 2.3 Other hazards

Health hazard No information available.

Particular information pertaining specific risk for human / environment No information available.

Indication of danger No information available.

Hazard precautions No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
glass, oxide, chemicals	CAS No.: 65997-17-3 EC-No.: 266-046-0 REACH No.: The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].	This substance is classified as not hazardous according to regulation (EC) No. 1272/2008 [CLP].	25.0 - 50.0 % by weight
tetramethyldimethacrylat	CAS No.: 2082-81-7 EC-No.: 218-218-1 REACH No.: 01-2119967415-30	Skin Sens. 1B;H317	>= 1.0 - 75.0 %
2-hydroxypropyl methacrylate	CAS No.: 27813-02-1 EC-No.: 248-666-3 REACH No.: 01-2119490226-37	Skin Sens. 1; H317 Eye Irrit. 2; H319	>= 1.0 - 10.0 %
dibenzoyl peroxide	CAS No.: 94-36-0 EC-No.: 202-327-6 Index-No.: 617-008-00-0 REACH No.: 01-2119511472-50	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1.0 - 2.5 %

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice Take off immediately all contaminated clothing.  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).  
Wear personal protection equipment (refer to section 8).

If inhaled Provide fresh air.

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In case of skin contact	In case of respiratory tract irritation, consult a physician. After contact with skin, wash immediately with plenty of water and soap. Do NOT use solvents or thinners.
In case of eye contact	Remove contact lenses. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
If swallowed	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

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

Symptoms No information available.

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

Immediate medical attention If unconscious place in recovery position and seek medical advice.

Special medical treatment Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media spray mist, (water), Water spray jet, alcohol resistant foam, carbon dioxide, Extinguishing powder

Extinguishing media which must not be used for safety reasons Full water jet

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

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases Heating or fire can release toxic gas.  
Fight fire with normal precautions from a reasonable distance.

### 5.3 Advice for firefighters

Special protective equipment for firefighting In case of fire: Wear self-contained breathing apparatus.  
For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Additional information on fire-fighting Suppress (knock down) gases/vapours/mists with a water spray jet.  
Do not allow water used to extinguish fire to enter drains, ground or waterways.

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## **SECTION 6: Accidental release measures**

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

Personal precautions	For non-emergency personnel Accidental release measures: Wear personal protection equipment (refer to section 8). Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas.
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### **6.2 Environmental precautions**

Environmental precautions	The product should not be allowed to enter drains, water courses or the soil. Prevent spread over a wide area (e.g. by containment or oil barriers).
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### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up	Allow stiffening. Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.
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### **6.4 Reference to other sections**

Reference to other sections	Reference to other sections : 7 / 8 / 13
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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Advice on safe handling	Caution: During machining in cured state dust is formed. Keep container tightly closed. Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse.
Advice on protection against fire and explosion	No special measures are necessary.

### **7.2 Conditions for safe storage, including any incompatibilities**

Storage space and container requirements	Keep/Store only in original container. Keep container tightly closed and dry. Store in accordance with local regulations.
Unsuitable materials for containers	Keep only in original container.
Hints on storage assembly	Keep away from food, drink and animal feedingstuffs.
German storage class	10-13 (TRGS 510)

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Recommended storage temperature +5 - 25 °C

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

**dibenzoyl peroxide**

**Great Britain**

**Long-term exposure value/ mg/m<sup>3</sup>**

5

**Source**

EH40/2005 Workplace exposure limits (2011)

### **8.2 Exposure controls**

Respiratory protection	Usually no personal respiratory protection necessary. In case of inadequate ventilation wear respiratory protection.
Hand protection	Health injuries are not known or expected under normal use. For prolonged or repeated contact use protective gloves. May cause sensitization of susceptible persons by skin contact. Avoid contact with eyes and skin.
Suitable material	Protective gloves complying with EN 374. Butyl caoutchouc (butyl rubber), CR (polychloroprene, chloroprene rubber), NBR (Nitrile rubber), Fluorinated rubber
Unsuitable material	PVC or rubber gloves are not recommended.
Material thickness	adjust to application and duration of use
Break through time	> 120 min
Evaluation	-
Remarks	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Note	Replace when worn.
Eye protection	Wear closely fitting protective glasses in case of splashes. Safety glasses with side-shields conforming to EN166
Skin and body protection	Long sleeved clothing
Note	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
General protective and hygiene measures	Do not eat, drink or smoke when using this product. Avoid contact with the skin and the eyes. Wash hands and face before breaks and after work and take a shower if necessary. Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.

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Information on environmental protection regulations	No special environmental measures are necessary. see section 6/7
Engineering measures	Provide adequate ventilation.

## **SECTION 9: Physical and chemical properties**

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

Form	solid
Colour	brown
Odour	none
Odour threshold	not determined
pH	No data available
Melting point [°C] / Freezing point [°C]	No data available
Boiling point [°C]	No data available
Flash point [°C]	> 100
Evaporation rate [kg/(s*m <sup>2</sup> )]	No data available
Flammability (solid, gas)	No data available
Explosion limits [Vol-% ]	
Lower limit	No data available
Upper limit	No data available
Vapour pressure [kPa]	No data available
Vapour density	No data available
Density [g/cm <sup>3</sup> ]	Not applicable.
Relative density	No data available
Solubility	No data available
Water solubility [g/l]	The study does not need to be conducted because the substance is known to be insoluble in water. (glass capsule)
Solubility [g/l]	No data available
Partition coefficient n-octanol /water (log P O/W)	No data available
Autoinflammability	not auto-flammable
Decomposition temperature [°C]	No data available
Viscosity, dynamic [kg/(m*s)]	Not applicable.
Explosive properties	not explosive.
Oxidising properties	No

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## 9.2 Other information

Solvent content [%] 0

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reactivity No hazardous reaction when handled and stored according to provisions.  
No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3 Possibility of hazardous reactions

Hazardous reactions No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Conditions to avoid The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.5 Incompatible materials

Materials to avoid Strong acids and oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Oral toxicity [mg/kg]

##### Hazardous ingredients

tetramethyldimethacrylat			
Value	Test criterion	Test species	Source
>5000	LD50	Rat	Company data

2-hydroxypropyl methacrylate				
Value	Test criterion	Test species	Remarks	Source
> 2000	LD50	rat	OECD 401 Limit Test.	Company data

dibenzoyl peroxide			
Value	Test criterion	Test species	Source
> 5000	LD50	rat	Company data

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**Dermal toxicity [mg/kg]****Hazardous ingredients**

<b>tetramethyldimethacrylat</b>			
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Source</b>
>3000	LD50	Rabbit	Company data

<b>2-hydroxypropyl methacrylate</b>			
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Source</b>
> 5000	LD50	rabbit	Company data

**Inhalative toxicity [mg/l]****Hazardous ingredients**

<b>tetramethyldimethacrylat</b>	
<b>Value</b>	<b>Source</b>
Based on available data, the classification criteria are not met.	Company data

<b>2-hydroxypropyl methacrylate</b>	
<b>Value</b>	<b>Source</b>
No data available	Company data

<b>dibenzoyl peroxide</b>			
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Source</b>
> 24300	LC50	rat	Company data

**LC50 Inhalation 1h for gases [ppmV]****Hazardous ingredients**

<b>tetramethyldimethacrylat</b>	
<b>Value</b>	<b>Source</b>
Based on available data, the classification criteria are not met.	Company data

**LC50 Inhalation 4h for gases [ppmV]****Hazardous ingredients**

<b>tetramethyldimethacrylat</b>	
<b>Value</b>	<b>Source</b>
Based on available data, the classification criteria are not met.	Company data

**LC50 Inhalation 1h for vapours [mg/l]****Hazardous ingredients**

<b>tetramethyldimethacrylat</b>	
<b>Value</b>	<b>Source</b>
Based on available data, the classification criteria are not met.	Company data

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**LC50 Inhalation 4h for vapours [mg/l]****Hazardous ingredients**

tetramethylendimethacrylat	
Value	Source
Based on available data, the classification criteria are not met.	Company data

**LC50 Inhalation 4h for dusts and sprays [mg/l]****Hazardous ingredients**

tetramethylendimethacrylat	
Value	Source
Based on available data, the classification criteria are not met.	Company data

**LC50 Inhalation 1h for dusts and sprays [mg/l]****Hazardous ingredients**

tetramethylendimethacrylat	
Value	Source
Based on available data, the classification criteria are not met.	Company data

**Irritant effect on skin****Hazardous ingredients**

tetramethylendimethacrylat				
Value	Measuring method	Test species	Exposure duration	Source
Not an irritant.	FDA 1959	Rabbit	24 h	Company data

2-hydroxypropyl methacrylate		
Value	Measuring method	Source
No skin irritation	OECD Test Guideline 404	Company data

**Irritant effect on eyes****Hazardous ingredients**

tetramethylendimethacrylat			
Value	Test species	Exposure duration	Source
Not an irritant.	Rabbit	24 h	Company data

2-hydroxypropyl methacrylate		
Value	Measuring method	Source
irritating	OECD 405	Company data

**Irritant effect on the respiratory tract****Hazardous ingredients**

tetramethylendimethacrylat			
Value	Test species	Exposure duration	Source
Not an irritant.	Mouse	24 h	Company data

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## Sensitization

### Hazardous ingredients

tetramethylendimethacrylat			
Value	Measuring method	Test species	Source
Skin sensitisation	OECD 429	Mouse	Company data

2-hydroxypropyl methacrylate	
Value	Source
Skin sensitizer	Company data

## Carcinogenic effects

### Hazardous ingredients

tetramethylendimethacrylat	
Value	Source
Based on available data, the classification criteria are not met.	Company data

2-hydroxypropyl methacrylate	
Value	Source
Not applicable.	Company data

## Mutagenicity

### Hazardous ingredients

tetramethylendimethacrylat	
Value	Source
Based on available data, the classification criteria are not met.	Company data

2-hydroxypropyl methacrylate		
Value	Remarks	Source
Not applicable.	OECD 471 (Ames Test) / OECD 476.	Company data

## Reproduction toxicity

### Hazardous ingredients

tetramethylendimethacrylat	
Value	Source
Based on available data, the classification criteria are not met.	Company data

2-hydroxypropyl methacrylate		
Value	Remarks	Source
Not applicable.	OECD 422	Company data

## Caustic effect

### Hazardous ingredients

tetramethylendimethacrylat				
Value	Measuring method	Test species	Exposure duration	Source

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Not an irritant.	FDA 1959	Rabbit	24 h	Company data
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2-hydroxypropyl methacrylate	
Value	Source
Not applicable.	Company data

## Specific target organ toxicity (single exposure) [mg/kg]

### Hazardous ingredients

tetramethylendimethacrylat	
Remarks	Source
*1)	Company data

\*1): Based on available data, the classification criteria are not met.

2-hydroxypropyl methacrylate	
Remarks	Source
Not applicable.	Company data

## Specific target organ toxicity (repeated exposure) [mg/kg]

### Hazardous ingredients

tetramethylendimethacrylat	
Remarks	Source
*1)	Company data

\*1): Based on available data, the classification criteria are not met.

2-hydroxypropyl methacrylate	
Remarks	Source
Not applicable.	Company data

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Toxicity to fish [mg/l]

##### Hazardous ingredients

tetramethylendimethacrylat						
Value	Test criterion	Test species	Measuring method	Exposure duration	Remarks	Source
32,5	LC50:	Leuciscus idus (Golden orfe)	DIN 38412 / part 15	48 h	By analogy.	Company data

2-hydroxypropyl methacrylate					
Value	Test criterion	Test species	Measuring method	Exposure duration	Source
493	LC50	Leuciscus idus (Golden orfe)	DIN 38412	48 h	Company data

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<b>dibenzoyl peroxide</b>			
<b>Value</b>	<b>Test criterion</b>	<b>Exposure duration</b>	<b>Source</b>
0,06	LC50	96 h	Company data

**Toxicity to daphnia [mg/l]****Hazardous ingredients**

<b>tetramethylendimethacrylat</b>					
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Exposure duration</b>	<b>Measuring method</b>	<b>Source</b>
7,51	EC10	Daphnia magna (Big water flea)	48 h	OECD 211	Company data

<b>2-hydroxypropyl methacrylate</b>					
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Exposure duration</b>	<b>Measuring method</b>	<b>Source</b>
> 130	EC50	Daphnia magna (Water flea)	48 h	OECD Test Guideline 202	Company data

<b>dibenzoyl peroxide</b>				
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Exposure duration</b>	<b>Source</b>
0,11	EC50	Daphnia magna (Big water flea)	48 h	Company data

**Toxicity to algae [mg/l]****Hazardous ingredients**

<b>tetramethylendimethacrylat</b>					
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Exposure duration</b>	<b>Measuring method</b>	<b>Source</b>
9,78	EC50	Desmodium subspicatus	72 h	OECD 201	Company data

<b>2-hydroxypropyl methacrylate</b>					
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Exposure duration</b>	<b>Measuring method</b>	<b>Source</b>
> 97,2	EC50	Selenastrum capricornutum	72 h	OECD Test Guideline 201	Company data

<b>dibenzoyl peroxide</b>			
<b>Value</b>	<b>Test criterion</b>	<b>Exposure duration</b>	<b>Source</b>
0,06	EC50	72 h	Company data

**NOEC (fish) [mg/l]****Hazardous ingredients**

<b>tetramethylendimethacrylat</b>					
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Value	Source
20	Company data

## NOEC (daphnia) [mg/l]

### Hazardous ingredients

tetramethylendimethacrylat	
Value	Source
20	Company data

2-hydroxypropyl methacrylate					
Value	Test criterion	Test species	Measuring method	Exposure duration	Source
24,1	NOEC	Daphnia magna (Big water flea)	OECD 202	21 d	Company data

## NOEC (algae) [mg/l]

### Hazardous ingredients

tetramethylendimethacrylat	
Value	Source
20	Company data

## 12.2 Persistence and degradability

### Biodegradability

#### Hazardous ingredients

tetramethylendimethacrylat	
Remarks	Source
*1)	Company data

\*1): Readily biodegradable (according to OECD criteria).

2-hydroxypropyl methacrylate	
Value	Source
Readily biodegradable.	Company data

## 12.3 Bioaccumulative potential

### Bioaccumulation

#### Hazardous ingredients

tetramethylendimethacrylat	
Value	Source
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.	Company data

2-hydroxypropyl methacrylate	
Value	Source
no data available	Company data

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## 12.4 Mobility in soil

### Mobility

#### Hazardous ingredients

2-hydroxypropyl methacrylate	
Value	Source
No data available	Company data

## 12.5 Results of PBT and vPvB assessment

### Results of PBT characteristics determination

#### Hazardous ingredients

tetramethylendimethacrylat	
Value	Source
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	Company data

2-hydroxypropyl methacrylate	
Value	Source
Not applicable.	Company data

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal considerations

Do not allow to enter into surface water or drains.  
Dispose of waste according to applicable legislation.  
Empty packaging: Where possible recycling is preferred to disposal or incineration.  
Product: Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Waste Code

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
The following Waste Codes are only suggestions:  
Product  
200127 - paint, inks, adhesives and resins containing dangerous substances  
080409 - waste adhesives and sealants containing organic solvents or other dangerous substances  
cured material  
200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	Not applicable.	Not applicable.	Not applicable.

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	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.2 Description of the goods	No dangerous good according to ADR	No dangerous good according to IMDG	No dangerous good according to IATA
14.3 Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental hazards	Not applicable.	Not applicable.	Not applicable.
14.2 UN proper shipping name		Non dangerous good	Non dangerous good

## 14.6 Special precautions for user

Precautions No special measures are necessary.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

## SECTION 15: Regulatory information

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

Decopaint regulation not relevant  
Carcinogenic hazardous substance as per Annex II GefStoffV No  
Restriction of occupation. no restriction

### 15.2 Chemical safety assessment

Safety assessment For this preparation a chemical safety assessment has been carried out. This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

Additional regulations This Safety Data Sheet is prepared according to Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

## SECTION 16: Other information

Relevant H-phrases H241: Heating may cause a fire or explosion.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H411: Toxic to aquatic life with long lasting effects.

Wording of the hazard classes This substance is classified as not hazardous according to regulation EC No CLP

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Skin Sens.: Skin sensitization

Eye Irrit.: Serious eye irritation

Aquatic Acute: Hazardous to the aquatic environment

Aquatic Chronic: Hazardous to the aquatic environment

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification	Evaluation
Skin Sens. 1; H317	Calculated
Aquatic Chronic 2; H411	Calculated

Recommended restrictions

Observe technical data sheet.

Modifications of the previous version are denoted with an asterisk (\*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.