Commercial Product Name: FHB II-PF

Revision Date: 31.07.2020

Version: 2/en



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-PF

Unique Formula Identifier (UFI) 5Q30-X0F5-700W-81G4

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 Regula- Skin Sens. 1; H317 Aquatic Chronic 2; H411

tion (EC) No. 1272/2008

2.2 Label elements

Hazard pictogram

Signal word



GHS07 Warning



GHS09

Commercial Product Name: FHB II-PF

Revision Date: 31.07.2020 Version: 2/en



Print date: 31.07.2020

Hazardous component(s) to be in-

dicated on label

tetramethylendimethacrylat, 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 pro-

tection.

2.3 Other hazards

Health hazard No information available.

Particular information pertaining No information available.

specific risk for human / environ-

ment

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
tetramethylendimethacry- lat	CAS No.: 2082-81-7 EC-No.: 218-218-1 REACH No.:	Skin Sens. 1B;H317	>= 1.0 - 75.0 %
	01-2119967415-30		
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.

In case of respiratory tract irritation, consult a physician.

In case of skin contact

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.

Commercial Product Name: FHB II-PF

Revision Date: 31.07.2020 Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmol-

ogist.

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

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 diox-

ide, 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 prepara-

tion itself, its combustion prod-

ucts, 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 wa-

terways.

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).

Commercial Product Name: FHB II-PF

Revision Date: 31.07.2020

Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

Remove all sources of ignition.

Ensure adequate ventilation, especially in confined areas.

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).

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 dis-

posal.

6.4 Reference to other sections

Reference to other sections Reference to other sections: 7 / 8 / 13

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 re-

quirements

Keep/Store only in original container.

Keep container tightly closed and dry.

Store in accordance with local regulations.

Unsuitable materials for contain-

ers

Keep only in original container.

Hints on storage assembly Keep away from food, drink and animal feedingstuffs.

German storage class 10-13 (TRGS 510)

Recommended storage tempera-

+5 - 25 °C

ture

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

dibenzoyl peroxide

Great Britain

Long-term exposure value/ mg/m3 Source

Commercial Product Name: FHB II-PF

Commercial Froduct Name. Frib ii-i

Revision Date: 31.07.2020



Replaces version from: 18.06.2020 Print date: 31.07.2020

5 EH40/2005 Workplace exposure limits (2011)

8.2 Exposure controls

Version: 2/en

Respiratory protection Usually no personal respirative protection necessary.

In case of inadequate ventilation wear respiratory protection.

Hand protection Health injuries are not known or expected under normal use. For pro-

longed 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), Fluorinat-

ed 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 perme-

ability and break through times, and of special workplace conditions (me-

chanical 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.

Information on environmental

No special environmental measures are necessary.

protection regulations 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

Commercial Product Name: FHB II-PF

Revision Date: 31.07.2020

Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

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*m²)] 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/cm³] 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 /wa-

ter (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

9.2 Other information

Solvent content [%]

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.

Commercial Product Name: FHB II-PF

Revision Date: 31.07.2020

Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

10.2 Chemical stability

Chemical stability Stable when applying the recommended regulations for storage and han-

dling. 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 stor-

age, use and temperature.

10.5 Incompatible materials

Materials to avoid Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition prod- No known hazardous decomposition products.

ucts

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Oral toxicity [mg/kg]

Hazardous ingredients

tetramethylendimethacrylat			
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

Dermal toxicity [mg/kg]

tetramethylendimethacrylat			
Value	Test criterion	Test species	Source
>3000	LD50	Rabbit	Company data

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

Revision Date: 31.07.2020

Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

Inhalative toxicity [mg/l]

Hazardous ingredients

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

2-hydroxypropyl methacrylate	
Value	Source
No data available	Company data

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

LC50 Inhalation 1h for gases [ppmV]

Hazardous ingredients

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

LC50 Inhalation 4h for gases [ppmV]

Hazardous ingredients

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

LC50 Inhalation 1h for vapours [mg/l]

Hazardous ingredients

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

LC50 Inhalation 4h for vapours [mg/l]

Hazardous ingredients

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

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

tetramethylendimethacrylat	
Value	Source

Revision Date: 31.07.2020

Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

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

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

Hazardous ingredients

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

Irritant effect on skin

Hazardous ingredients

tetramethylendi	methacrylat		,	
Value	Measuring method	Test species	Exposure dura- tion	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

tetramethylendimeth	acrylat		
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

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

Sensitization

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

2-hydroxypropyl methacrylate	
Value	Source
Skin sensitizer	Company data

Revision Date: 31.07.2020

Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

Carcinogenic effects Hazardous ingredients

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

2-hydroxypropyl methacrylate	
Value	Source
Not applicable.	Company data

Mutagenicity

Hazardous ingredients

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

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	Company data
are not met.	

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

Caustic effect

Hazardous ingredients

	mazar adas mgr carem				
	tetramethylendi	methacrylat			
Value Measuring Test species Exposure method tion					Source
	Not an irritant.	FDA 1959	Rabbit	24 h	Company data

2-hydroxypropyl methacrylate	
Value	Source
Not applicable.	Company data

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

tetramethylendimethacrylat	
Remarks	Source

Commercial Product Name: FHB II-PF

Revision Date: 31.07.2020

Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

*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

tetrametl	tetramethylendimethacrylat						
Value	Test crite- rion	Test species	Mea- suring method	Exposure duration	Remarks	Source	
32,5	LC50:	Leucis- cus idus (Golden orfe)	DIN 38412 / part 15	48 h	By analo- gy.	Company data	

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

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

Toxicity to daphnia [mg/l]

tetramethylendimethacrylat					
Value	Test criteri- on	Test species	Exposure duration	Measuring method	Source

Revision Date: 31.07.2020

Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

7,51	EC10	Daphnia	48 h	OECD 211	Company da-
		magna (Big			ta
		water flea)			

2-hydroxypropyl methacrylate							
Value	Test criteri- on	Test species	Exposure duration	Measuring method	Source		
> 130	EC50	Daphnia magna (Wa- ter flea)	48 h	OECD Test Guideline 202	Company da- ta		

dibenzoyl peroxi	de			
Value	Test criterion	Test species	Exposure dura- tion	Source
0,11	EC50	Daphnia magna (Big water flea)	48 h	Company data

Toxicity to algae [mg/l]

Hazardous ingredients

tetramethylendimethacrylat						
Value	Test criteri-	Test species	Exposure	Measuring	Source	
	on		duration	method		
9,78	EC50	Desmod-	72 h	OECD 201	Company da-	
		esmus sub-			ta	
		spicatus				

2-hydroxypropyl methacrylate						
Value	Test criteri- on	Test species	Exposure duration	Measuring method	Source	
> 97,2	EC50	Selenastrum capricornu- tum	72 h	OECD Test Guideline 201	Company da- ta	

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

NOEC (fish) [mg/l]

Hazardous ingredients

tetramethylendimethacrylat	
Value	Source
20	Company data

NOEC (daphnia) [mg/l]

tetramethylendimethacrylat	
Value	Source
20	Company data

Commercial Product Name: FHB II-PF

Revision Date: 31.07.2020

Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

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

NOEC (algae) [mg/l]

Hazardous ingredients

nazar adas mgreateries	
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	Company data
accumulation in organisms is not expected.	

2-hydroxypropyl methacrylate	
Value	Source
no data available	Company data

12.4 Mobility in soil

Mobility

2-hydroxypropyl methacrylate	
Value	Source
No data available	Company data

Commercial Product Name: FHB II-PF

Revision Date: 31.07.2020

Revision Date: 31.07.2020 Version: 2/en



Replaces version from: 18.06.2020 Print date: 31.07.2020

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 in-

cineration.

Product: Can be disposed of as a solid waste or burned in a suitable in-

stallation subject to local regulations.

Waste Code According to the European Waste Catalogue, Waste Codes are not prod-

uct specific, but application specific.

The following Waste Codes are only suggestions:

Product

200127 - paint, inks, adhesives and resins containing dangerous sub-

stances

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.
14.2 Description of the	No dangerous good accord-	No dangerous good accord-	No dangerous good accord-
goods	ing to ADR	ing to IMDG	ing to IATA
14.3 Transport hazard	Not applicable.	Not applicable.	Not applicable.
class(es)			
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		Non dangerous good	Non dangerous good
name			

Commercial Product Name: FHB II-PF

D :: D : 24.07.2020

Revision Date: 31.07.2020 Version: 2/en



Print date: 31.07.2020

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

not applicable

Annex II of MARPOL and the IBC

Code

SECTION 15: Regulatory information

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

Decopaint regulation not relevant

Carcinogenic hazardous sub- No

stance as per Annex II GefStoffV

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, Evalua-

tion, 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 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

ClassificationEvaluationSkin Sens. 1; H317CalculatedAquatic Chronic 2; H411Calculated

[CLP]

Recommended restrictions Observe technical data sheet.

Revision Date: 31.07.2020

Version: 2/en



Print date: 31.07.2020

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.
constitute a warranty or properties, reatures or quanties.