

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

Commercial Product Name: FIS HB 150 C

Revision Date: 31.07.2020

Version: 2/en

fischer 

Replaces version from: 07.05.2020

Print date: 31.07.2020

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

1.1 Product identifier

Commercial Product Name **FIS HB 150 C**
Unique Formula Identifier (UFI) F820-A0QE-100G-17K1

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

Relevant identified uses composite mortar
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
tion (EC) No. 1272/2008

2.2 Label elements

Hazard pictogram



GHS07

Signal word

Warning

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

H-statement(s) H317: May cause an allergic skin reaction.

P-statement(s) P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
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
tetramethylendimethacrylat	CAS No.: 2082-81-7 EC-No.: 218-218-1 REACH No.: 01-2119967415-30	Skin Sens. 1B;H317	2.5 - 10.0 % by weight
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	< 2.5 % by weight
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	< 2.5 % by weight

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.

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In case of eye contact	Do NOT use solvents or thinners. 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 firefighting 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions For non-emergency personnel

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Accidental release measures:

Wear personal protection equipment (refer to section 8).

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 disposal.

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 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)

Recommended storage temperature

+5 - 25 °C

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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dibenzoyl peroxide

Great Britain

Long-term exposure value/ mg/m3	Source
5	EH40/2005 Workplace exposure limits (2011)

8.2 Exposure controls

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

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Paste
Colour	grey
Odour	characteristic
Odour threshold	not determined
Melting point [°C] / Freezing point [°C]	No data available
Boiling point [°C]	No data available
Flash point [°C]	> 100
Evaporation rate [kg/(s*m ²)]	
Pressure	No data available
Flammability (solid, gas)	No data available
Explosion limits [Vol-%]	
Remarks	No data available
Vapour pressure [kPa]	No data available
Vapour density	No data available
Density [g/cm ³]	1,7 - 1,8
Temperature	23 °C
Relative density	No data available
Solubility	No data available
Water solubility [g/l]	No data available
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)]	250 - 300
Temperature	23 °C
Explosive properties	not explosive.
Oxidising properties	No

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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

Dermal toxicity [mg/kg]

Hazardous ingredients

tetramethyldimethacrylat			
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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

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 are not met.	Company data

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

tetramethylendimethacrylat	
Value	Source

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Based on available data, the classification criteria are not met.	Company data
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LC50 Inhalation 4h for dusts and sprays [mg/l]**Hazardous ingredients**

tetramethyldimethacrylat	
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**

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

Irritant effect on skin**Hazardous ingredients**

tetramethyldimethacrylat				
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**

tetramethyldimethacrylat			
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**

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

Sensitization**Hazardous ingredients**

tetramethyldimethacrylat			
Value	Measuring method	Test species	Source

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Skin sensitisation	OECD 429	Mouse	Company data
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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
Not an irritant.	FDA 1959	Rabbit	24 h	Company data

2-hydroxypropyl methacrylate

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Value	Source
Not applicable.	Company data

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

Hazardous ingredients

tetramethyldimethacrylat	
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

tetramethyldimethacrylat	
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

tetramethyldimethacrylat						
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

dibenzoyl peroxide			
Value	Test criterion	Exposure duration	Source

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0,06	LC50	96 h	Company data
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Toxicity to daphnia [mg/l]**Hazardous ingredients**

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

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

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

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

tetramethylendimethacrylat					
Value	Test criterion	Test species	Exposure duration	Measuring method	Source
9,78	EC50	Desmod-esmus subspicatus	72 h	OECD 201	Company data

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

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

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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 remaining contents.
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 (Mortar and Curing agent)
200127 - paint, inks, adhesives and resins containing dangerous substances
080409 - waste adhesives and sealants containing organic solvents or other dangerous substances
cured material and completely squeezed cartridges
200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

SECTION 14: Transport information

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	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 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.

Wording of the hazard classes Skin Sens.: Skin sensitization
Eye Irrit.: Serious eye irritation

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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

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.