

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

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

### **1.1 Product identifier**

Commercial Product Name FIS VS 100 P

### **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 Regulation (EC) No. 1272/2008 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317

### **2.2 Label elements**

Hazard pictogram



GHS05



GHS07

Signal word

Danger

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

Hazardous component(s) to be indicated on label	tetramethyldimethacrylat , portland cement , 2-hydroxypropyl methacrylate , dibenzoyl peroxide , 2-methylisothiazol-3(2H)-one
H-statement(s)	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage.
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. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER/doctor.

## 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
tetramethyldimethacrylat	CAS No.: 2082-81-7 EC-No.: 218-218-1 REACH No.: 01-2119967415-30	Skin Sens. 1B;H317	10.0 - 25.0 % by weight
portland cement	CAS No.: 65997-15-1 EC-No.: 266-043-4 REACH No.: The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].	Skin Irrit. 2;H315 Eye Dam. 1; H318 STOT SE 3;H335	10.0 - 15.0 % 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 - 10.0 % by weight
ethanediol	CAS No.: 107-21-1 EC-No.: 203-473-3 Index-No.: 603-027-00-1 REACH No.: 01-2119456816-28	Acute Tox. 4; H302 STOT RE 2; H373	< 2.5 % by weight
dibenzoyl peroxide	CAS No.: 94-36-0 EC-No.: 202-327-6 Index-No.: 617-008-00-0	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic	< 2.5 % by weight

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
	REACH No.: 01-2119511472-50	Acute 1; H400 Aquatic Chronic 1; H410	
2-methylisothiazol-3(2H)-one	CAS No.: 2682-20-4 EC-No.: 220-239-6 Index-No.: 613-326-00-9 REACH No.: 01-2120764690-50	Acute Tox. 3; H301 Acute Tox. 2; H330 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1A; H317	< 0.01 % 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. 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 drunk 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

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

### 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.

## **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.
----------------------	--

### 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.
-------------------------	--

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

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

Recommended storage temperature

+5 - 25 °C

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### portland cement

##### Great Britain

Long-term exposure value/ mg/m3	Remarks	Source
10	inhalable dust	Company data
4	respirable dust	Company data

#### ethanediol

##### Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Remarks	Note	Source
	10			particulates only	Sk	EH40/2005 Workplace exposure limits (2011)
20	52	40	104	vapour	Sk	EH40/2005 Workplace exposure limits (2011)

##### Europe

Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Note	Issuing date	Source
52	20	104	40	Skin	2000/39	DIRECTIVE 2009/161/EU

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

## dibenzoyl peroxide

### Great Britain

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

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

## **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
pH (min)	No data available
pH (max)	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-% ]	
Remarks	No data available
Vapour pressure [kPa]	No data available
Vapour density	No data available
Density [g/cm <sup>3</sup> ]	1,7-1,9
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)]	90-150
Temperature	20°C
Explosive properties	not explosive.
Oxidising properties	No

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

## **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

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

<b>portland cement</b>			
<b>Value</b>	<b>Test criterion</b>	<b>Remarks</b>	<b>Source</b>
> 2000	LD50	literature value	Company data

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

<b>ethanediol</b>				
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Remarks</b>	<b>Source</b>



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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

5840	LD50	Rat	*1)	Company data
------	------	-----	-----	--------------

\*1): Harmonised (legal) classification. Harmful if swallowed.

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

2-methylisothiazol-3(2H)-one		
Value	Test criterion	Source
600	LC50	Company data

## Dermal toxicity [mg/kg]

### Hazardous ingredients

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

portland cement				
Value	Test criterion	Test species	Remarks	Source
> 2000	LD50	rabbit	Limit test 2000 mg/kg	Company data

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

ethanediol			
Value	Test criterion	Test species	Source
> 3500	LD50	rabbit	Company data

2-methylisothiazol-3(2H)-one		
Value	Test criterion	Source
> 5000	LD50	Company data

## Inhalative toxicity [mg/l]

### Hazardous ingredients

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

portland cement				
Value	Test criterion	Test species	Note	Source
> 5	LC50	rat	Limit Test 5 g/m <sup>3</sup>	Company data

2-hydroxypropyl methacrylate	
Value	Source

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

No data available	Company data
-------------------	--------------

ethanediol				
Value	Test criterion	Test species	Exposure duration	Source
> 5	LC50	rat	4 h	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
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]**

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

**Hazardous ingredients**

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

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

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

<b>portland cement</b>	
<b>Value</b>	<b>Source</b>
Irritant	Company data

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

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

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

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

<b>portland cement</b>	
<b>Value</b>	<b>Source</b>
Causes serious eye damage.	Company data

<b>2-hydroxypropyl methacrylate</b>		
<b>Value</b>	<b>Measuring method</b>	<b>Source</b>
irritating	OECD 405	Company data

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

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

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

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

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

## Sensitization

### Hazardous ingredients

<b>tetramethyldimethacrylat</b>			
<b>Value</b>	<b>Measuring method</b>	<b>Test species</b>	<b>Source</b>
Skin sensitisation	OECD 429	Mouse	Company data

<b>portland cement</b>	
<b>Value</b>	<b>Source</b>
No sensitization responses were observed.	Company data

<b>2-hydroxypropyl methacrylate</b>	
<b>Value</b>	<b>Source</b>
Skin sensitizer	Company data

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

<b>2-methylisothiazol-3(2H)-one</b>			
<b>Value</b>	<b>Measuring method</b>	<b>Test species</b>	<b>Source</b>
Skin sensitisation	OECD 429	Mouse	Company data

## Carcinogenic effects

### Hazardous ingredients

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

<b>portland cement</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>
Not applicable.	Company data

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

<b>ethanediol</b>	
<b>Value</b>	<b>Source</b>
Contains no ingredient listed as a carcinogen	Company data

## Mutagenicity

### Hazardous ingredients

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

<b>portland cement</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>Remarks</b>	<b>Source</b>
Not applicable.	OECD 471 (Ames Test) / OECD 476.	Company data

<b>ethanediol</b>	
<b>Value</b>	<b>Source</b>
Not applicable.	Company data

## Reproduction toxicity

### Hazardous ingredients

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

<b>portland cement</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>Remarks</b>	<b>Source</b>
Not applicable.	OECD 422	Company data

<b>ethanediol</b>	
<b>Value</b>	<b>Source</b>
Not applicable.	Company data

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

## Caustic effect

### Hazardous ingredients

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

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

2-hydroxypropyl methacrylate	
Value	Source
Not applicable.	Company data

ethanediol	
Value	Source
No data available	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.

portland cement	
Specific effects	Source
Irritating to respiratory system. (dust)	Company data

2-hydroxypropyl methacrylate	
Remarks	Source
Not applicable.	Company data

ethanediol	
Remarks	Source
*1)	Company data

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

## 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.

portland cement	
-----------------	--

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

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

ethanediol			
Route of exposure	Organs affected	Specific effects	Source
Ingestion	Causes damage to kidneys if swallowed.	Causes damage to organs through prolonged or repeated exposure.	Company data
Skin contact	May cause damage to kidneys in contact with skin.	Causes damage to organs through prolonged or repeated exposure.	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

portland cement		
Value	Test criterion	Source
> 100	LC50	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

ethanediol				
Value	Test criterion	Test species	Exposure duration	Source

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

72860	LC50	Pimephales promelas (fat-head minnow)	96 h	Company data
-------	------	---------------------------------------	------	--------------

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

2-methylisothiazol-3(2H)-one					
Value	Test criterion	Test species	Measuring method	Exposure duration	Source
30	LC50	On-corhynchus mykiss (Rainbow trout)	OECD 203	96 h	Company data

## 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

portland cement			
Value	Test criterion	Test species	Source
> 100	LC50	Daphnia magna (Water flea)	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

ethanediol				
Value	Test criterion	Test species	Exposure duration	Source
> 100	EC50	Daphnia magna (Water flea)	48 h	Company data

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



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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

2-methylisothiazol-3(2H)-one					
Value	Test criterion	Test species	Exposure duration	Measuring method	Source
8,4	EC50	Daphnia magna (Big water flea)	48 h	OECD 202	Company data

## Toxicity to algae [mg/l]

### Hazardous ingredients

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

portland cement			
Value	Test criterion	Exposure duration	Source
> 100	EC50		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

ethanediol				
Value	Test criterion	Test species	Exposure duration	Source
> 6500	EC50	Selenastrum capricornutum	96 h	Company data

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

2-methylisothiazol-3(2H)-one					
Value	Test criterion	Test species	Exposure duration	Measuring method	Source
0,79	IC50:	Pseudokirchneriella sub-capitata	72 h	OECD 201	Company data

## NOEC (fish) [mg/l]

### Hazardous ingredients

tetramethyldimethacrylat	
Value	Source
20	Company data

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

<b>ethanediol</b>			
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Source</b>
15380	NOEC	Pimephales promelas (fathead minnow)	Company data

<b>2-methylisothiazol-3(2H)-one</b>				
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Measuring method</b>	<b>Source</b>
11,9	NOEC	Pimephales promelas (fathead minnow)	OECD 210	Company data

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

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

<b>2-hydroxypropyl methacrylate</b>				
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Measuring method</b>	<b>Source</b>
24,1	NOEC	Daphnia magna (Big water flea)	OECD 202	Company data

<b>ethanediol</b>		
<b>Value</b>	<b>Test criterion</b>	<b>Source</b>
8590	NOEC	Company data

<b>2-methylisothiazol-3(2H)-one</b>				
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Measuring method</b>	<b>Source</b>
2,75	NOEC	Daphnia magna (Big water flea)	OECD 211	Company data

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

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

<b>2-methylisothiazol-3(2H)-one</b>				
<b>Value</b>	<b>Test criterion</b>	<b>Test species</b>	<b>Measuring method</b>	<b>Source</b>
0,15	NOEC	Pseudokirchneriella subcapitata	OECD 201	Company data

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

## 12.2 Persistence and degradability

### Biodegradability

#### Hazardous ingredients

tetramethylendimethacrylat	
Remarks	Source
*1)	Company data

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

portland cement	
Value	Source
Not applicable. (inorganic)	Company data

2-hydroxypropyl methacrylate	
Value	Source
Readily biodegradable.	Company data

ethanediol		
Remarks	Value	Source
Readily biodegradable.	90 - 100 %	Company data

2-methylisothiazol-3(2H)-one	
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

portland cement	
Value	Source
Not applicable. (inorganic)	Company data

2-hydroxypropyl methacrylate	
Value	Source
no data available	Company data

ethanediol	
Value	Source
Bioaccumulation is unlikely.	Company data

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

## 12.4 Mobility in soil

### Mobility

#### Hazardous ingredients

portland cement	
Value	Source
Not applicable. (inorganic)	Company data

2-hydroxypropyl methacrylate	
Value	Source
No data available	Company data

ethanediol	
Value	Source
Not applicable.	Company data

## 12.5 Results of PBT and vPvB assessment

### Results of PBT characteristics determination

#### Hazardous ingredients

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

portland cement	
Value	Source
Not applicable.	Company data

2-hydroxypropyl methacrylate	
Value	Source
Not applicable.	Company data

ethanediol	
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.

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en



Print date: 24.04.2020

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

	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

VOC < 1 g/l / < 0,1 %

Decopaint regulation not relevant

Carcinogenic hazardous substance as per Annex II GefStoffV No

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

Commercial Product Name: FIS VS 100 P

Article-No.: -

Revision date: 21.04.2020

Version: 1/en

Print date: 24.04.2020

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.
- H301: Toxic if swallowed.
- H302: Harmful if swallowed.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H330: Fatal if inhaled.
- H335: May cause respiratory irritation.
- H400: Very toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

**Wording of the hazard classes**

- Skin Irrit.: Skin irritation
- Eye Dam.: Serious eye damage
- STOT SE: Specific target organ toxicity - single exposure
- Skin Sens.: Skin sensitization
- Eye Irrit.: Serious eye irritation
- Acute Tox.: Acute toxicity
- STOT RE: Specific target organ toxicity - repeated exposure
- 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 Irrit. 2; H315	Calculated
Eye Dam. 1; H318	Calculated
Skin Sens. 1; H317	Calculated

**Recommended restrictions** Observe technical data sheet.