

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

Commercial Product Name: FIS VT 380 C

Revision Date: 20.01.2015

Version: 5.0/en

**fischer**   
innovative solutions

Replaces version from: 24.07.2014

Print date: 20.01.2015

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

### **1.1 Product identifier**

Commercial Product Name      **FIS VT 380 C**

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

Relevant identified uses      composite mortar

Recommended restrictions      None under normal processing. 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

Marketer      Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd, Hithercroft Road, Wallingford, Oxfordshire, OX10 9AT, Tel. 01491 827 920, Fax 01491 827 950

### **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

\*Classification according to Directive 67/548/EEC / 1999/45/EEC      R43 Xi; R41

### **2.2 Label elements**

Hazard pictogram



GHS05



GHS07

Signal word

**Danger**

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Hazardous component(s) to be indicated on label portland cement, tetramethylene dimethacrylate, 2-hydroxypropyl methacrylate, dibenzoyl peroxide

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 or doctor/physician.

## 2.3 Other hazards

\*Health hazard None known.

\*Particular information pertaining specific risk for human / environment None known.

\*Indication of danger None known.

\*Hazard precautions None known.

## SECTION 3: Composition/information on ingredients

### Hazardous ingredients

Ingredient		Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
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 1207/2006 [REACH].	Xi; R37/38-41 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	10.0 – 25.0 % by weight
tetramethylene dimethacrylate	CAS No.: 2082-81-7 EC-No.: 218-218-1 REACH No.: 02-2119849716-25	Xi; R43 Skin Sens. 1; H317	10.0 – 25.0 % by weight
2-hydroxypropyl methacrylate	CAS No.: 27813-02-1 EC-No.: 248-666-3 REACH No.: 01-2119490226-37	R43 Xi; R36 Skin Sens. 1; H317 Eye Irrit. 2; H319	2.5 – 10.0 % 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	E; R3 Xi; R36 R43 N; R50/53 Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400	< 2.5 % by weight

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## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

General advice	If symptoms persist, call a physician. Remove/Take off immediately all contaminated clothing.
If inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
In case of skin contact	IF ON SKIN: Gently wash with plenty of soap and water.
In case of eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed	If swallowed, seek medical advice immediately and show this container or label. Clean mouth with water and drink afterwards plenty of water. Drink 1 or 2 glasses of water. Do NOT induce vomiting.

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

Symptoms	None known.
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### **4.3 Indication of any immediate medical attention and special treatment needed**

Immediate medical attention	No data available
Special medical treatment	No data available

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media	Carbon dioxide (CO <sub>2</sub> ) Dry powder Foam Water spray jet
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Extinguishing media which must not be used for safety reasons	High volume water jet
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### **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 cause the formation of methyl methacrylate vapours. Vapours are heavier than air. Heating or fire can release toxic gas.
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### **5.3 Advice for firefighters**

Special protective equipment for firefighting	In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.
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Additional information on fire-fighting

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Keep containers and surroundings cool with water spray.

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

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

Personal precautions

Ensure adequate ventilation, especially in confined areas.  
Keep people away from and upwind of spill/leak.

### **6.2 Environmental precautions**

Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.  
Prevent spreading 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

Use mechanical handling equipment.  
Treat recovered material as described in the section "Disposal considerations".

### **6.4 Reference to other sections**

Reference to other sections

See chapter 8/13

### **6.5 Additional information**

Other information

Dispose of in accordance with local regulations.

## **SECTION 7: Handling and storage**

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

Advice on safe handling

None under normal processing.  
Caution: During machining in cured state dust is formed.

Advice on protection against fire and explosion

No special precautions required.

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

Storage space and container requirements

Keep containers tightly closed in a cool, well-ventilated place.  
Store in accordance with local regulations.  
Keep only in original container.

Hints on storage assembly

Store in accordance with the particular national regulations.

German storage class

10-13 (TRGS 510)

### **7.3 Specific end use(s)**

Specific use(s)

composite mortar  
Further information: see technical data sheet.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****portland cement**

Great Britain

Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Source
10	inhalable dust	100
4	respirable dust	100

Source: 100 – 100

**dibenzoyl peroxide**

Great Britain

Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Source
5	R2, 36, 43	100

Source: 100 – 100

**8.2 Exposure controls**

Respiratory protection	No personal respiratory protective equipment normally required.
Hand protection	not required under normal use
Suitable material:	butyl-rubber, Chloroprene, Nitrile rubber
Unsuitable material:	PVC disposable gloves
Material thickness:	adjust to application and duration of use
Break through time:	adjust to application and duration of use
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).
Reference substance:	Replace when worn.
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment.
Note:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
General protective and hygiene measures	Smoking, eating and drinking should be prohibited in the application area. Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday. 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 precautions required.

## **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	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:	not determined
Upper limit:	not determined
Risk of explosion.	Not explosive
Vapour pressure [kPa]	No data available
*Density [g/cm³]	1,7 – 1,8
Temperature:	20 °C
Relative density	No data available
Water solubility [g/l]	not determined
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]	not determined
*Viscosity, dynamic [kg/(m*s)]	180 – 230
Temperature:	20 °C
Oxidising properties	No

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## 9.2 Other information

Relative vapour density (air=1) not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Thermal decomposition No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Chemical stability Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid Not applicable.

### 10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Hazardous ingredients

##### portland cement

Oral toxicity [mg/kg]	Test criterion	Remarks	Source
> 2000	LD50	literature value	100

Source: 100 – 100

Dermal toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
> 2000	LD50	rabbit	Limit test 2000 mg/kg	100

Source: 100 – 100

Inhalative toxicity [mg/l]	Test criterion	Test species	Note	Source
> 5	LC50	rat	Limit Test 5 g/m <sup>3</sup>	100

Source: 100 – 100

Sensitization May cause an allergic skin reaction.

Carcinogenic effects Not applicable.

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Mutagenicity Not applicable.  
Reproduction toxicity Not applicable.  
Caustic effect No data available

Specific target organ toxicity (single exposure) [mg/kg]	Specific effects	Source
	Irritating to respiratory system. (dust)	100

Source: 100 – 100

Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	Not applicable.	100

Source: 100 – 100

## Tetramethylen dimethacrylate

Oral toxicity [mg/kg]	Test criterion	Test species	Source
> 2000	LD50	rat	100

Source: 100 – 100

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 3000	LD50	rabbit	100

Source: 100 – 100

Inhalative toxicity [mg/l]	Source
No data available	2

Source: 2 – SimChem

Sensitization Hautsensibilisierend.  
Carcinogenic effects keine carcinogenic effects  
Mutagenicity Not applicable.  
Reproduction toxicity Not applicable.  
Caustic effect keine Corrosion

Specific target organ toxicity (single exposure) [mg/kg]	Specific effects	Source
	keine	2

Source: 2 – SimChem

Specific target organ toxicity (repeated exposure) [mg/kg]	Specific effects	Source
	keine	2

Source: 2 – SimChem

## 2-hydroxypropyl methacrylate

Oral toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
> 2000	LD50	rat	OECD 401 Limit Test.	100



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Source: 100 – 100

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 5000	LD50	rabbit	100

Source: 100 – 100

Inhalative toxicity [mg/l]	Source
No data available	100

Source: 100 – 100

Sensitization	Hautsensibilisierend.
Carcinogenic effects	Not applicable.
Mutagenicity	Not applicable.
Reproduction toxicity	Not applicable.
Caustic effect	keine Corrosion

Specific target organ toxicity (single exposure) [mg/kg]	Remarks	Source
	Not applicable.	100

Source: 100 – 100

Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	Not applicable.	100

Source: 100 – 100

## dibenzoyl peroxide

Oral toxicity [mg/kg]	Test criterion	Test species	Source
> 5000	LD50	rat	100

Source: 100 – 100

Inhalative toxicity [mg/l]	Test criterion	Test species	Note	Source
24300	LC50	rat	(dust)	100

Source: 100 – 100

Irritant effect on skin	Irritating to skin and mucous membranes
Irritant effect on eyes	Irritating to eyes.

## 11.2 Additional information

Other information (chapter 11.) The product itself has not been tested.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Hazardous ingredients

##### portland cement

Toxicity to fish [mg/l]	Test criterion	Source
> 100	LC50	100

Source: 100 – 100

Toxicity to daphnia [mg/l]	Test criterion	Test species	Source
> 100	LC50	Daphnia magna (Water flea)	100

Source: 100 – 100

Toxicity to algae [mg/l]	Test criterion	Source
> 100	EC50	100

Source: 100 – 100

Biodegradability Not applicable. (inorganic)

##### Tetramethylen dimethacrylate

Toxicity to fish [mg/l]	Test criterion	Measuring method	Exposure duration	Source
32,5	LC50	DIN 38412	48 h	100

Source: 100 – 100

Toxicity to algae [mg/l]	Test criterion	Test species	Measuring method	Source
9,79	EC50	Scenedesmus capricornutum (fresh water algae)	OECD Test Guideline 201	100

Source: 100 – 100

NOEC (daphnia) [mg/l]	Test species	Measuring method	Source
7,51	Daphnia magna (Big water flea).	OECD 211	100

Source: 100 – 100

Biodegradability Readily biodegradable.

##### 2-hydroxypropyl methacrylate

Toxicity to fish [mg/l]	Test criterion	Test species	Measuring method	Exposure duration	Source
493	LC50	Leuciscus idus (Golden orfe)	DIN 38412	48 h	100

Source: 100 – 100

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
> 130	EC50	Daphnia magna (Water flea)	48 h	OECD Test Guideline 202	100

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Source: 100 – 100

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
345	EC50	Selenastrum capricornutum	72 h	OECD Test Guideline 201	100

Source: 100 – 100

NOEC (daphnia) [mg/l]	Duration of dosage	Test species	Measuring method	Test criterion	Source
24,1	21 d	Daphnia magna (Big water flea).	OECD 202	NOEC	100

Source: 100 – 100

Biodegradability Readily biodegradable.

## dibenzoyl peroxide

Toxicity to fish [mg/l]	Test criterion	Exposure duration	Source
0,06	LC50	96 h	100

Source: 100 – 100

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
0,11	EC50	Daphnia magna (Water flea)	48 h	100

Source: 100 – 100

Toxicity to algae [mg/l]	Test criterion	Exposure duration	Source
0,06	EC50	72 h	100

Source: 100 – 100

## 12.2 Persistence and degradability

Elimination and distribution mechanisms There is no data available for this product.

Elimination in purification plant There is no data available for this product.

## 12.3 Bioaccumulative potential

Bioaccumulation There is no data available for this product.

Bioconcentration factor (BCF) There is no data available for this product.

## 12.4 Mobility in soil

Distribution in the environment There is no data available for this product.

Mobility

Mobility: There is no data available for this product.

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## 12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination      This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## 12.6 Other adverse effects

Further information on ecology      The product itself has not been tested.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal considerations      The product should not be allowed to enter drains, water courses or the soil.  
Dispose of waste according to applicable legislation.  
Empty remaining contents.

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/IA-TA
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
14.2 UN proper shipping name		Non dangerous good	Non dangerous good
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.
Danger releasing substance	Not applicable.	Not applicable.	Not applicable.

### 14.6 Special precautions for user

Precautions      not required under normal use

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## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code not applicable

## 14.8 Additional information

Other information (chapter 14.) Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

## SECTION 15: Regulatory information

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

Restriction of occupation. –  
Additional regulations Not applicable.

### 15.2 Chemical safety assessment

Safety assessment Not relevant. Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

Relevant R-phrases R36: Irritating to eyes.  
R37/38: Irritating to respiratory system and skin.  
R41: Risk of serious damage to eyes.  
R43: May cause sensitisation by skin contact.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Relevant H-phrases H241: Heating may cause a fire or explosion.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H400: Very toxic to aquatic life.

Wording of the hazard classes Skin Irrit.: Skin irritation  
Eye Dam.: Serious eye damage  
Skin Sens.: Skin sensitization  
STOT SE: Specific target organ toxicity – single exposure  
Eye Irrit.: Serious eye irritation  
Org. Perox.: Organic peroxide  
Aquatic Acute: Hazardous to the aquatic environment

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

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\*Classification for mixtures  
and used evaluation method  
according to regulation (EC)  
1207/2008 [CLP]

Classification	Evaluation
Skin Irrit. 2; H315	Calculated
Eye Dam. 1; H318	Calculated
Skin Sens. 1; H317	Calculated

Recommended restrictions      None under normal processing. Observe technical data sheet.

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.