

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

1.1 Product identifier

Commercial Product Name **FIS VS 300 T**

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
Weinhalde 14-18
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 Reg- Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317
ulation (EC) No. 1272/2008

*Classification according to Di- R43 Xi; R41
rective 67/548/EEC / 1999/45/
EEC

2.2 Label elements

Hazard pictogram



GHS05



GHS07

Signal word

Danger

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



Commercial Product Name: FIS VS 300 T

Revision date: 15.08.2013

Version: 4.0/en

Print date: 15.08.2013

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

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	
Quartz (SiO2)	CAS No.: 14808-60-7 EC-No.: 238-878-4		25.0 - 50.0 % by weight
portland cement	CAS No.: 65997-15-2 EC-No.: 266-043-4	Xi; R37/38-41 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin STOT SE 3; H335	10.0 - 25.0 % by weight
Solvent naphtha (petroleum), light arom.	CAS No.: 64742-95-6 EC-No.: 265-199-0 Index-No.: 649-356-00-4	R10 Xn; R65 Xi; R37 N; R51/53 R66 R67 STOT SE 3; H336 H335 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Flam. Liq. 3; H226	< 2.5 % by weight
ethanediol, ethylene glycol	CAS No.: 107-21-1 EC-No.: 203-473-3 Index-No.: 603-027-00-1 REACH No.: 01-2119456816-28-xxxx, 02-2119752517-33-xxxx	Xn; R22 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 REACH No.: 01-2119511472-50-xxxx	E; R3 O; R7 Xi; R36 R43 Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317	< 2.5 % by weight
2-hydroxypropyl methacrylate	CAS No.: 27813-02-1 EC-No.: 248-666-3 REACH No.: 01-2119490226-37-xxxx	R43 Xi; R36 Skin Sens. 1; H317 Eye Irrit. 2; H319	< 2.5 % by weight

Ingredient		Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
2-methoxy-1-methylethyl acetate	CAS No.: 108-65-6	R10	< 2.5 % by weight
	EC-No.: 203-603-9 Index-No.: 607-195-00-7	Flam. Liq. 3; H226	

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 (CO2) 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 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.
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.
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6.2 Environmental precautions

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

Methods for cleaning up	Use mechanical handling equipment. Treat recovered material as described in the section "Disposal considerations".
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6.4 Reference to other sections

Reference to other sections	See chapter 8/13
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6.5 Additional information

Other information	Dispose of in accordance with local regulations.
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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/ m3	Remarks	Source
10	inhalable dust	100
4	respirable dust	100

100 - Firmendaten

ethanediol, ethylene glycol

Great Britain

Long-term exposure value/ mg/m3	Remarks	Long-term exposure value/ ppm	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Source
10	particulate,Sk R22				19
52	vapour, Sk, R22	20	40	104	19

19 - EH40/200 Workplace exposure limits (October 2007)

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	24

24 - DIRECTIVE 2009/161/EU

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
35 mg/m ³	Workers	Inhalation	Long term effects	100
106 mg/kg	Workers	dermal	Long term effects	100
7 mg/m ³	consumer	Inhalation	Long term effects	100
53 mg/kg	consumer	dermal	Long term effects	100

100 - Firmendaten

PNEC

Value	Target group	Source
10 mg/l	freshwater	100
1 mg/l	marine water	100
199,5 mg/l	PNEC sewage treatment plant (STP)	100
20,9 mg/kg	PNEC sediment, freshwater	100
1,53 mg/kg	Soil	100

100 - Firmendaten

1907/2006

Commercial Product Name: FIS VS 300 T

Revision date: 15.08.2013

Version: 4.0/en

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dibenzoyl peroxide

Great Britain

Long-term exposure value/ mg/ m ³	Remarks	Source
5	R2, 36, 43	19

19 - EH40/200 Workplace exposure limits (October 2007)

2-hydroxypropyl methacrylate

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
14,7 mg/m ³	Workers	Inhalation	Long term effects	100
4,2 mg/kg/d	Workers	dermal	Long term effects	100
-	Workers	Oral	Long term effects	100

100 - Firmendaten

2-methoxy-1-methylethyl acetate

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Remarks	Source
50	274	100	548	Sk R10, 36	19

19 - EH40/200 Workplace exposure limits (October 2007)

Europe

Long-term exposure value/ mg/ m ³	Long-term exposure value/ ppm	Short-term exposure value / mg/ m ³	Short-term exposure value / ppm	Note	Issuing date	Source
275	50	550	100	Skin	2000/39	24

24 - DIRECTIVE 2009/161/EU

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.

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]	No data available
Boiling point [°C]	no data available
Flash point [°C]	> 100 °C
Evaporation rate [kg/(s*m ²)]	No data available
Flammability	No data available
Explosion limits [Vol-%]	
Lower limit:	not determined
Upper limit:	not determined
Vapour pressure [kPa]	No data available
Density [g/cm ³]	1,7 – 1,9 g/cm ³
Temperature:	20 °C
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

1907/2006

Commercial Product Name: FIS VS 300 T

Revision date: 15.08.2013

Version: 4.0/en

Print date: 15.08.2013

Viscosity, dynamic [kg/(m*s)] 180 – 240 Pas

Temperature: 20 °C

Risk of explosion. Not explosive

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**

Oral toxicity [mg/kg]

Value	Test criterion	Test species	Remarks
> 5000	LD50	rat	dibenzoyl peroxide (CAS 94-36-0)
keine - literature value			portland cement (CAS 65997-15-1)
> 5000	LD50	rat	2-hydroxypropyl methacrylate (CAS 27813-02-1)

Dermal toxicity [mg/kg]

Value	Test criterion	Test species	Duration	Remarks
> 5000	LD50	rabbit		ethanediol (CAS 107-21-1)
> 2000	LC50	rabbit	24 h	portland cement (CAS 65997-15-1)
> 5000	LD50	rabbit		2-hydroxypropyl methacrylate (CAS 27813-02-1)

Inhalative toxicity [mg/l]

Value	Test criterion	Duration of dosage	Test species	Note
4000	LD50		rat	ethanediol (CAS 107-21-1)
> 243000	LC50		rat	dibenzoyl peroxide (CAS 94-36-0)
> 5	LD50	Limit Test.	rat	portland cement (CAS 65997-15-1)

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.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l]

Value	Test criterion	Test species	Duration of dosage	Measuring method	Remarks
> 500	LC50	Leuciscus idus (Golden orfe)	96 h		ethanediol (CAS 107-21-1)
493	LC50	Leuciscus idus (Golden orfe)	48 h	DIN 38412	2-hydroxypropyl methacrylate (CAS 27813-02-1)

Toxicity to daphnia [mg/l]

Value	Test criterion	Test species	Exposure duration	Measuring method	Remarks
> 100	EC50	Daphnia magna (Water flea)	48 h	OECD Test Guide-line 202	ethanediol (CAS 107-21-1)
380	EC50	Daphnia magna (Water flea)	48 h	OECD Test Guide-line 202	2-hydroxypropyl methacrylate (CAS 27813-02-1)

Toxicity to algae [mg/l]

Value	Test criterion	Test species	Exposure duration	Measuring method	Remarks
> 6500	EC50	Selenastrum capricornutum	96 h		ethanediol (CAS 107-21-1)
345	EC50	Selenastrum capricornutum	72 h	OECD Test Guide-line 201	2-Hydroxypropylmethacrylat (CAS 27813-02-1)

NOEC (Daphnie) [mg/l]

Value	Duration of dosage	Test species	Measuring method	Test criterion	Remarks
24,1	21 d	Daphnia magna (Big water flea).	OECD TG 202	NOEC	2-hydroxypropyl methacrylate (CAS 27813-02-1)

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.

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/IATA
UN-No	Not applicable.	Not applicable.	Not applicable.
Class	Not applicable.	Not applicable.	Not applicable.

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
Packaging group	Not applicable.	Not applicable.	Not applicable.
Description of the goods	No dangerous good according to ADR	No dangerous good according to IMDG	No dangerous good according to IATA
Proper shipping name		Non dangerous good	Non dangerous good
Danger releasing substance	Not applicable.	Not applicable.	Not applicable.
Environmental hazards	Not applicable.	Not applicable.	Not applicable.

14.6 Special precautions for user

Precautions not required under normal use

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, ADNR, IMDG-Code, ICAO/IATA-DGR

SECTION 15: Regulatory information

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

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
R10: Flammable.
R22: Harmful if swallowed.
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.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

Relevant H-phrases
H302: Harmful if swallowed.
H373: May cause damage to organs through prolonged or repeated exposure .
H226: Flammable liquid and vapour.

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

Commercial Product Name: **FIS VS 300 T**

Revision date: 15.08.2013

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H241: Heating may cause a fire or explosion.
H304: May be fatal if swallowed and enters airways.
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.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.

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
Asp. Tox.: Aspiration hazard
Aquatic Chronic: Hazardous to the aquatic environment
Flam. Liq.: Flammable liquid
Acute Tox.: Acute toxicity
STOT RE: Specific target organ toxicity – repeated exposure
Org. Perox.: Organic peroxide
Eye Irrit.: Serious eye irritation

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.