SECTION1:Identificationofthesubstance/mixtureandofthecompany/ undertaking

1.1 Product identifier

Commercial Product Name	FIS VL 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 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	AnchorMark Pty. Ltd. Unit 1, 61Waterview Close - Dandenong South VIC 3175, Australia Tel.: +61 (0) 3 97992096 Fax: +61 (0) 3 97992096 Email: info@anchormark.com.au

1.4 Emergency telephone number

Emergency telephone number	+61 (0) 39 79 92 096 (available 8:00 a.m. - 6:00 p.m.) / +49 (0) 61 32 84 463 (24h - English speaking)

SECTION2:Hazardsidentification

2.1 Classification of the substance or mixture

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

2.2 Label elements

Hazard pictogram



GHS05



GHS07

Signal word	Danger
Hazardous component(s) to be indicated on label	Cement, portland, chemicals, tetramethylendimethacrylat, 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.

SECTION3:Compositionoriformationoningredients

Hazardous ingredients

Ingredient		GHS Classification	Concentration
Cement, portland, chemicals	CAS No.: 65997-15-1	Skin Irrit. 2;H315 Eye Dam. 1; H318 STOT SE 3;H335	10.0 -25.0 % by weight
tetramethylendimethacrylat	CAS No.: 2082-81-7	Skin Sens. 1; H317	10.0 -25.0 % by weight
2-hydroxypropyl methacrylate	CAS No.: 27813-02-1	Skin Sens. 1; H317 Eye Irrit. 2; H319	2.5 -10.0 % by weight
dibenzoyl peroxide	CAS No.: 94-36-0	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1;	< 2.5 % by weight
ethanediol, ethylene glycol	CAS No.: 107-21-1	Acute Tox. 4; H302 STOT RE 2; H373	< 2.5 % by weight

SECTION4:Firstaidmeasures

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.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION5:Firefightingmeasures

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO2) Dry powder Foam Water spray jet
Extinguishing media which must not be used for safety reasons	High volume 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.

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.

SECTION6:Accidentalreleasemeasures

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.

SECTION7:Handlingandstorage

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.

SECTION8:Exposurecontrols/personalprotection

8.1 Control parameters

ethanediol, ethylene glycol

Australia

Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Note	Source
	10			Sk	39
20	52	40	104	Sk	39

Source: 39 - WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013

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

Source: 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.

SECTION9:Physicalandchemicalproperties

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
Vapour pressure [kPa]	No data available
Vapour density	No data available
Density [g/cm³]	1,7 - 1,9
Temperature:	20 °C
Relative density	No data available
Solubility	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)]	90 - 150
Temperature:	20 °C
Explosive properties	Not explosive

Risk of explosion.	Not explosive
Oxidising properties	No

9.2 Other information

Relative vapour density (air=1)	not determined

SECTION10:Stabilityandreactivity

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.

SECTION11:Toxicologicalinformation

11.1 Information on toxicological effects

Hazardous ingredients

Cement, portland, chemicals

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

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

Inhalative toxicity [mg/l]	Test criterion	Test species	Note
> 5	LC50	rat	Limit Test 5 g/m³

Sensitization	May cause an allergic skin reaction.
Carcinogenic effects	Not applicable.
Mutagenicity	Not applicable.
Reproduction toxicity	Not applicable.
Caustic effect	No data available

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

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

Tetramethylen dimethacrylate

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

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

Inhalative toxicity [mg/l]
No data available

Sensitization	Skin sensitizer
Carcinogenic effects	Contains no ingredient listed as a carcinogen
Mutagenicity	Not applicable.
Reproduction toxicity	Not applicable.
Caustic effect	Not applicable.

Specific target organ toxicity (single exposure) [mg/kg]	Specific effects
	none

Specific target organ toxicity (repeated exposure) [mg/kg]	Specific effects
	none

2-hydroxypropyl methacrylate

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

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

Inhalative toxicity [mg/l]
No data available

Sensitization Skin sensitizer

Carcinogenic effects Not applicable.

Mutagenicity Not applicable.

Remarks OECD 471 (Ames Test) / OECD 476.

Reproduction toxicity Not applicable.

Remarks OECD 422.

Caustic effect Not applicable.

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

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

dibenzoyl peroxide

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

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

ethanediol, ethylene glycol

Oral toxicity [mg/kg]
Harmful if swallowed.

Dermal toxicity [mg/kg]	Test criterion	Test species
> 3500	LD50	rabbit

Inhalative toxicity [mg/l]	Test criterion	Test species	Note	Exposure duration
> 2,5	LC50	rat	(as aerosol)	6 h

Sensitization: not sensitizing.

Carcinogenic effects: Contains no ingredient listed as a carcinogen

Mutagenicity: Not applicable.

Reproduction toxicity: Not applicable.

Caustic effect: No data available

Specific target organ toxicity (repeated exposure) [mg/kg]	Route of exposure	Organs affected	Specific effects
	Ingestion	Causes damage to kidneys if swallowed.	Causes damage to organs through prolonged or repeated exposure.
	Skin contact	May cause damage to kidneys in contact with skin.	Causes damage to organs through prolonged or repeated exposure.

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.

SECTION12:Ecologicalinformation

12.1 Toxicity

Hazardous ingredients

Cement, portland, chemicals

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

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

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

Biodegradability Not applicable. (inorganic)

Tetramethylen dimethacrylate

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

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

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

Biodegradability Readily biodegradable.

Ready degradability

2-hydroxypropyl methacrylate

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

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

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Measuring method
> 97,2	EC50	Selenastrum capricornutum	72 h	OECD Test Guideline 201

NOEC (daphnia) [mg/l]	Test criterion	Test species	Measuring method	Exposure duration
24,1	NOEC	Daphnia magna (Big water flea).	OECD 202	21 d

Biodegradability Readily biodegradable.

Ready degradability

dibenzoyl peroxide

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

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

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

Ready degradability

ethanediol, ethylene glycol

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration
72860	LC50	Pimephales promelas (Pimephales promelas (fathead minnow))	96 h

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

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration
> 6500	EC50	Selenastrum capricor-nutum	96 h

NOEC (fish) [mg/l]	Test criterion	Test species	Exposure duration
15380	NOEC	Pimephales promelas (fathead minnow)	7 d

NOEC (daphnia) [mg/l]	Test criterion	Exposure duration
8590	NOEC	7 d

Biodegradability 90 - 100 %

Ready degradability

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.

SECTION13:Disposalconsiderations

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.

SECTION14:Transportinformation

	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
14.2 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

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

14.8 Additional information

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

SECTION15:Regulatoryinformation

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

Decopaint regulation	Exempt
Carcinogenic hazardous substance as per Annex II GefStoffV	no
Restriction of occupation.	Exempt
Water Hazard Class (Ger.)	1
Cassification in compliance with the Industrial Safety Regulation	Exempt

15.2 Chemical safety assessment

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

SECTION16:Otherinformation

Relevant H-phrases	H241: Heating may cause a fire or explosion. H302: Harmful if swallowed. 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. H373: May cause damage to organs through prolonged or repeated exposure . 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 Acute Tox.: Acute toxicity STOT RE: Specific target organ toxicity – repeated exposure

GHS Classification

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.

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.