Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Replaces version from: -

Print date: 04.12.2018

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

1.1 Product identifier

Version: 1.0 /en

Commercial Product Name FIS V 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

BLACKS FASTENERS LTD 34 Nga Mahi Road, Sockburn

Christchurch 8042 (postal code) New Zealand

Telephone: 0800 652 463 FAX: 0800 652 464

Email: sockburn@blacksfasteners.co.nz

1.4 Emergency telephone number

Emergency telephone number +49(0)6132-84463 (24h)

Our 24-hour contact within NZ is 0800 764 766 (0800 POISON)

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







GHS07

Signal word Danger

Hazardous component(s) to be

indicated on label

Cement, portland, chemicals, tetramethylendimethacrylat, 2-hydrox-

ypropyl methacrylate, dibenzoyl peroxide

H-statement(s) H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en

Replaces version from: -

Print date: 04.12.2018

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

orotection.

None known.

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 pertain-

ing specific risk for human / en-

vironment

Indication of danger None known.

Hazard precautions None known.

SECTION3: Composition/informationoningredients

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

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en

Replaces version from: -

Print date: 04.12.2018

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, seek medical advice immediately and show this contain-

er 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: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2)

Dry powder

Foam

Water spray jet

Extinguishing media which must

High volume water jet

not be used for safety reasons

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising Heating or fire can release toxic gas.

from the substance or preparation itself, its combustion prod-

ucts, or released gases

5.3 Advice for firefighters

Special protective equipment for In the event of fire, wear self-contained breathing apparatus.

firefighting In the event of fire and/or explosion do not breathe fumes.

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en

Replaces version from: -

Print date: 04.12.2018

Additional information on fire-

fighting

Fire residues and contaminated fire extinguishing water must be dis-

posed of in accordance with local regulations.

Keep containers and surroundings cool with water spray.

SECTION6: Accidental releasemeasures

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 barri-

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 consid-

erations".

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: 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

quirements

No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container re-

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.

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Replaces version from: -Print date: 04.12.2018 Version: 1.0 /en

SECTION8: Exposure controls/personal protection

8.1 Control parameters

ethanediol, ethylene glycol

Australia

Long-term expo-	Long-term expo-	Short-term ex-	Short-term ex-	Note	Source
sure value/ ppm	sure value/ mg/	posure value /	posure value /		
	m3	ppm	mg/m3		
	10			Sk	39
20	52	40	104	Sk	39

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

Europe

Long-term	Long-term	Short-term	Short-term	Note	Issuing date	Source
exposure val-	exposure val-	exposure val-	exposure val-			
ue/ mg/m3	ue/ ppm	ue / mg/m3	ue / ppm			
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.

not required under normal use Hand protection

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 per-

meability and break through times, and of special workplace condi-

tions (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.

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Replaces version from: -Print date: 04.12.2018 Version: 1.0 /en

Information on environmental No special environmental precautions required.

protection regulations

<u>SECTION9:Physicalandchemicalproperties</u>

9.1 Information on basic physical and chemical properties

Form paste Colour grey

Odour characteristic Odour threshold not determined рΗ No data available

Melting point [°C] / Freezing

point [°C]

No data available

Boiling point [°C] no data available

Flash point [°C] > 100

No data available Evaporation rate $[kg/(s*m^2)]$ 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 - 1,920 °C Temperature:

Relative density No data available Solubility No data available not determined Water solubility [g/l]

Partition coefficient n-octanol /

water (log P O/W)

Solubility [q/l]

No data available

No data available

Autoinflammability not auto-flammable

Decomposition temperature [°C] not determined

90 - 150Viscosity, dynamic [kg/(m*s)]

> 20 °C Temperature:

Explosive properties Not explosive

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en

Replaces version from: -

Print date: 04.12.2018

Risk of explosion. Not explosive

Oxidising properties No

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 prod- No decomposition if used as directed.

ucts

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

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

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en

Replaces version from: -

Print date: 04.12.2018

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

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en



Print date: 04.12.2018

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.

Not applicable. Mutagenicity

OECD 471 (Ames Test) / OECD 476. Remarks

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 expo-	Remarks
sure) [mg/kg]	
	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.	

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en

Replaces version from: -

Print date: 04.12.2018

Dermal toxicity [mg/kg]Test criterionTest species> 3500LD50rabbit

Inhalative toxicity	Test criterion	Test species	Note	Exposure dura-
[mg/l]				tion
> 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 ex- posure) [mg/kg]	Route of exposure	Organs affected	Specific effects
	Ingestion	Causes damage to kid- neys 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.

11.2 Additional information

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

SECTION12: Ecological information

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)

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en



Print date: 04.12.2018

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

Biodegradability Not applicable. (inorganic)

Tetramethylen dimethacrylate

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

Toxicity to algae [mg/	Test criterion	Test species	Measuring method
[]			
9,79	EC50	Scenedesmus capricor-	OECD Test Guideline
		nutum (fresh water al-	201
		gae)	

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	Test criterion	Test species	Measuring	Exposure dura-
[mg/l]			method	tion
493	LC50	Leuciscus idus	DIN 38412	48 h
		(Golden orfe)		

Toxicity to daph-	Test criterion	Test species	Exposure dura-	Measuring
nia [mg/l]			tion	method
> 130	EC50	Daphnia magna	48 h	OECD Test Guide-
		(Water flea)		line 202

Toxicity to algae	Test criterion	Test species	Exposure dura-	Measuring
[mg/l]			tion	method
> 97,2	EC50	Selenastrum capri-	72 h	OECD Test Guide-
		cornutum		line 201

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

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en

Replaces version from: -

Print date: 04.12.2018

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	96 h
		(Pimephales promelas	
		(fathead minnow))	

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

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

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

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

Biodegradability 90 - 100 %

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en Print date: 04.12.2018

Ready degradability

12.2 Persistence and degradability

Elimination and distribution

n

There is no data available for this product.

mechanisms

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 persis-

Replaces version from: -

tent 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.

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018 Replaces version from: -Version: 1.0 /en

Print date: 04.12.2018

SECTION 14: 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	No dangerous good ac-	No dangerous good ac-	No dangerous good ac-
goods	cording to ADR	cording to IMDG	cording to IATA
14.2 UN proper shipping		Non dangerous good	Non dangerous good
name			
14.3 Transport hazard	Not applicable.	Not applicable.	Not applicable.
class(es)			
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental haz-	Not applicable.	Not applicable.	Not applicable.
ards			
Danger releasing sub-	Not applicable.	Not applicable.	Not applicable.
stance			

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

not applicable

Transport in bulk according to

Annex II of MARPOL and the IBC

Code

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

Decopaint regulation Exempt

Carcinogenic hazardous subno

stance as per Annex II GefStoffV

Restriction of occupation. Exempt

Water Hazard Class (Ger.)

Cassification in compliance with Exempt

the Industrial Safety Regulation

15.2 Chemical safety assessment

Safety assessment Not relevant. Chemical safety assessments for substances in this mix-

ture were not carried out.

Additional regulations Not applicable.

Commercial Product Name: FIS V 300 T

Revision Date: 04.12.2018

Version: 1.0 /en

Replaces version from: -

Print date: 04.12.2018

SECTION 16: Otherinformation

H241: Heating may cause a fire or explosion. Relevant H-phrases

> 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.