

## 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

Commercial Product Name            **FIS VW 360 S – Mortar (Component A)**

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

Use    composite mortar

### 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

### Emergency telephone number

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

## 2. Hazards identification

### Classification of the substance or mixture

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

### Label elements

Hazard symbols

Xi



Xi: Irritant

Hazardous component(s) to be  
indicated on label

2-hydroxypropyl methacrylate

R-phrase(s)

R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

S-phrase(s)

S2: Keep out of the reach of children.

S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable gloves and eye/face protection.

S46: If swallowed, seek medical advice immediately and show this container or label.

### **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 68475-76-3 EG-No.: 266-043-4	Xi; R38-41	10.0 – 25.0 % by weight
2-hydroxypropyl methacrylate	CAS No.: 27813-02-1 EG-No.: 248-666-3 Index-No.: 607-125-00-5	Xi; R36;R43	< 2.5 % by weight
N,N-diethylaniline	CAS No.: 91-66-7 EG-No.: 202-088-8 Index-No.: 612-054-00-8	T; R23/24/25 R33 N; R51-53 Acute Tox. 3 *; H331 Acute Tox. 3 *; H311 Acute Tox. 3 *; H301 STOT RE 2 *; H373 ** Aquatic Chronic 2; H411	< 1.0 % by weight
Solvent naphtha (petroleum), light arom.	CAS No.: 64742-95-6 EG-No.: 265-199-0 Index-No.: 649-356-00-4	Xn; R65 Xi; R37 N; R51/53 Aquatic Chronic 2; H411 Asp. Tox. 1; H304STOT SE 3; H336 H335	< 0.5 % by weight

### **4. First aid measures**

#### **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.

### **5. Firefighting measures**

#### **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

### 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.

### 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 firefighting Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Keep containers and surroundings cool with water spray. Container may rupture on heating.

## 6. Accidental release measures

### 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.

### 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).

### 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".

### Additional information

Other information Dispose of in accordance with local regulations.

## 7. Handling and storage

### Precautions for safe handling

Advice on safe handling None under normal processing.

Advice on protection against fire and explosion No special precautions required.

### 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)

## 8. Exposure controls/personal protection

### Control parameters

#### portland cement

Great Britain	Long-term exposure value/ mg/ m3	10
	remarks	inhalable dust
	Source	EH40/200 Workplace exposure limits (October 2007)

Great Britain	Long-term exposure value/ mg/ m3	4
	remarks	respirable dust
	Source	EH40/200 Workplace exposure limits (October 2007)

#### phosphoric acid ... %, orthophosphoric acid ... %

Great Britain	Long-term exposure value/ mg/ m3	1
	Short-term exposure value / mg/ m3	2
	remarks	R34
	Source	EH40/200 Workplace exposure limits (October 2007)

Europe	Long-term exposure value/ mg/ m3	1
	Short-term exposure value / mg/ m3	2
	Issuing date	2000/39
	Source	EU-OEL

#### 2-methoxy-1-methylethyl acetate

Great Britain	Long-term exposure value/ ppm	50
	Long-term exposure value/ mg/ m3	274
	Short-term exposure value / ppm	100
	Short-term exposure value / mg/ m3	548
	remarks	Sk R10, 36
	Source	EH40/200 Workplace exposure limits (October 2007)

Europe	Long-term exposure value/ mg/ m3	275
	Long-term exposure value/ ppm	50
	Short-term exposure value / mg/ m3	550
	Short-term exposure value / ppm	100
	Note	Skin
	Issuing date	2000/39
	Source	EU-OEL

**titanium-dioxide**

Great Britain	Long-term exposure value/ mg/ m3	10
	remarks	total inhalable
	Source	EH40/200 Workplace exposure limits (Octobre 2007)

Great Britain	Long-term exposure value/ mg/ m3	4
	remarks	respirable
	Source	EH40/200 Workplace exposure limits (Octobre 2007)

**Exposure controls**

Respiratory protection	No personal respiratory protective equipment normally required.
Hand protection	Wear protective gloves.
Suitable material:	butyl-rubber, Chloroprene, Nitrile rubber
Unsuitable material:	PVC disposable gloves
Material thickness:	>= 0,5 mm
Break through time:	> 120 min
remarks:	Replace when worn. Request information on glove permeation properties from the glove supplier. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
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.

## **9. Physical and chemical properties**

### **Information on basic physical and chemical properties**

Form	paste
Colour	light grey
Odour	characteristic
Flash point / °C	> 100 °C
Risk of explosion.	Not explosive
Density	1,6 – 1,8 g/cm <sup>3</sup>
temperature:	20 °C
Autoinflammability	not auto-flammable
Viscosity, dynamic	180 – 230 Pas
temperature:	20 °C

## **10. Stability and reactivity**

### **Possibility of hazardous reactions**

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

### **Conditions to avoid**

Conditions to avoid      No decomposition if used as directed.

### **Hazardous decomposition products**

Hazardous decomposition products      No decomposition if used as directed.

## **11. Toxicological information**

### **Information on toxicological effects**

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

### **Additional information**

Other information (chapter 11.)      There is no data available for this product.

## **12. Ecological information**

### **Other adverse effects**

Further information on ecology      No information on ecology is available.

### **13. Disposal considerations**

#### **Waste treatment methods**

Disposal considerations	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. The product should not be allowed to enter drains, water courses or the soil. Empty remaining contents.
Waste Code	200000 – MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS 200127 – paint, inks, adhesives and resins containing dangerous substances 080000 – WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS 080400 – wastes from MFSU of adhesives and sealants (including waterproofing products) 080409 – waste adhesives and sealants containing organic solvents or other dangerous substances
Uncleaned empty packaging	Dispose of as unused product.

### **14. Transport information**

#### **Additional information**

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

#### **Chemical safety assessment**

Safety assessment	Not relevant. Chemical safety assessments for substances in this mixture were not carried out.
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### **16. Other information**

R phrases applying to ingredients	R10: Flammable. R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R33: Danger of cumulative effects. R37: Irritating to respiratory system. R38: Irritating to skin. R41: Risk of serious damage to eyes. 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.
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H phrases applying to ingredi-  
ents

R67: Vapours may cause drowsiness and dizziness.

H301: Toxic if swallowed.

H304: May be fatal if swallowed and enters airways.

H311: Toxic in contact with skin.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure .

H411: Toxic to aquatic life with long lasting effects.

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.

## 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

Commercial Product Name            **FIS VW 360 S – Hardener (Component B)**

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

Use    composite mortar

### 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

### Emergency telephone number

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

## 2. Hazards identification

### Classification of the substance or mixture

Classification according to Di-        O; R7 R43  
rective 67/548/EEC / 1999/45/  
EEC

### Label elements

Hazard symbols



O: Oxidising



Xi: Irritant

Hazardous component(s) to be        dibenzoyl peroxide  
indicated on label

R–phrase(s)                                R43: May cause sensitisation by skin contact.  
R7: May cause fire.

S–phrase(s)                                S14: Keep away from strong acids, alkalis, salts of heavy metals and  
reductants.  
S2: Keep out of the reach of children.

S3/7: Keep container tightly closed in a cool place.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S46: If swallowed, seek medical advice immediately and show this container or label.

### **3. Composition/information on ingredients**

#### **Hazardous ingredients**

Ingredient		Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
ethanediol, ethylene glycol	CAS No.: 107-21-1 EG-No.: 203-473-3 Index-No.: 603-027-00-1	Xn; R22	10.0 – 25.0 % by weight
		Acute Tox. 4 *; H302	
dibenzoyl peroxide	CAS No.: 94-36-0 EG-No.: 202-327-6 Index-No.: 617-008-00-0	E; R3 O; R7 Xi; R36 R43	10.0 – 25.0 % by weight
		Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317	

### **4. First aid measures**

#### **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.

### **5. Firefighting measures**

#### **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

### 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.

### 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 firefighting Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Keep containers and surroundings cool with water spray. Container may rupture on heating.

## 6. Accidental release measures

### 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.

### 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).

### 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".

### Additional information

Other information Dispose of in accordance with local regulations.

## 7. Handling and storage

### Precautions for safe handling

Advice on safe handling None under normal processing.

Advice on protection against fire and explosion No special precautions required.

### 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)

## 8. Exposure controls/personal protection

### Control parameters

#### ethanediol, ethylene glycol

Great Britain	Long-term exposure value/ mg/ m3	10
	remarks	particulate,Sk R22
	Source	EH40/200 Workplace exposure limits (October 2007)

Great Britain	Long-term exposure value/ ppm	20
	Long-term exposure value/ mg/ m3	52
	Short-term exposure value / ppm	40
	Short-term exposure value / mg/ m3	104
	remarks	vapour, Sk, R22
	Source	EH40/200 Workplace exposure limits (October 2007)

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

#### dibenzoyl-peroxide

Great Britain	Long-term exposure value/ mg/ m3	5
	remarks	R2, 36, 43
	Source	EH40/200 Workplace exposure limits (October 2007)

### Exposure controls

Respiratory protection	No personal respiratory protective equipment normally required.
Hand protection	Wear protective gloves.
Suitable material:	butyl-rubber, Chloroprene, Nitrile rubber
Unsuitable material:	PVC disposable gloves
Material thickness:	>= 0,5 mm
Break through time:	>120 min
remarks:	Replace when worn. Request information on glove permeation properties from the glove supplier. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter

	than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
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.

## **9. Physical and chemical properties**

### **Information on basic physical and chemical properties**

Form	paste
Colour	black
Odour	characteristic
Flash point / °C	> 100 °C
Risk of explosion.	Not explosive
Density	1,45 – 1,55 g/cm <sup>3</sup>
temperature:	20 °C
Autoinflammability	not auto-flammable
Viscosity, dynamic	80 – 140 Pas
temperature:	20 °C

### **Other information**

Oxidizing properties	Oxidising
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## **10. Stability and reactivity**

### **Possibility of hazardous reactions**

Hazardous reactions	No dangerous reaction known under conditions of normal use.
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### **Conditions to avoid**

Conditions to avoid	No decomposition if used as directed.
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## Hazardous decomposition products

Hazardous decomposition products – No decomposition if used as directed.

## 11. Toxicological information

### Information on toxicological effects

Irritant effect on skin                      Irritating to skin and mucous membranes

Irritant effect on eyes                      Irritating to eyes.

### Additional information

Other information (chapter 11.)      There is no data available for this product.

## 12. Ecological information

### Other adverse effects

Further information on ecology      No information on ecology is available.

## 13. Disposal considerations

### Waste treatment methods

Disposal considerations              Disposal together with normal waste is not allowed. Special disposal required according to local regulations.  
The product should not be allowed to enter drains, water courses or the soil.  
Empty remaining contents.

Waste Code                              200000 – MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS  
200127 – paint, inks, adhesives and resins containing dangerous substances  
080000 – WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS  
080400 – wastes from MFSU of adhesives and sealants (including waterproofing products)  
080409 – waste adhesives and sealants containing organic solvents or other dangerous substances

Uncleaned empty packaging              Dispose of as unused product.

## 14. Transport information

### Additional information

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

## **15. Regulatory information**

### **Chemical safety assessment**

Safety assessment

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

## **16. Other information**

R phrases applying to ingredients

R22: Harmful if swallowed.

R3: Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R36: Irritating to eyes.

R43: May cause sensitisation by skin contact.

R7: May cause fire.

H phrases applying to ingredients

H241: Heating may cause a fire or explosion.

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

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