

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

Commercial Product Name : FIS VL 360 S – Component A (Mortar )

Revision date : 31.05.2016

Version : 1.0 /en



Print date : 31.05.2016

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

### 1.1 Product identifier

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

### 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            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

### 2.2 Label elements

Hazard pictogram



GHS05



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label

portland cement , tetramethylene dimethacrylate , 2-hydroxypropyl methacrylate

H-statement(s)

H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.

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P-statement(s)

H318: Causes serious eye damage.

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/doctor.

## 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 (EC) 1272/2008	Concentration
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].	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. : 01-2119967415-30	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	Skin Sens. 1; H317 Eye Irrit. 2; H319	2.5 – 10.0 % by weight
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	EC-No. : 911-490-9 REACH No. : 01-2119979579-10	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	< 2.5 % by weight

## 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.

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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

## SECTION 5: Firefighting measures

### 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 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.

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## **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.

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## **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

### **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.

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## **SECTION 9: Physical and chemical properties**

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

Form	paste
Colour	light 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*m <sup>2</sup> )]	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/cm <sup>3</sup> ]	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)]	110 – 140
Temperature :	20 °C
Explosive properties	Not explosive
Risk of explosion.	Not explosive

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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 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.

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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	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	100

Source : 100 – 100

Sensitization                  Skin sensitizer  
Carcinogenic effects        none carcinogenic effects  
Mutagenicity                  Not applicable.  
Reproduction toxicity       Not applicable.  
Caustic effect                none Corrosion

Specific target organ toxicity (single exposure) [mg/kg]	Specific effects	Source
	none	100

Source : 100 – 100

Specific target organ toxicity (repeated exposure) [mg/kg]	Specific effects	Source
	none	100

Source : 100 – 100



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**2-hydroxypropyl methacrylate**

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

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	Skin sensitizer
Carcinogenic effects	Not applicable.
Mutagenicity	Not applicable.
Reproduction toxicity	Not applicable.
Caustic effect	none 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

**Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-**

Oral toxicity [mg/kg]	Test criterion	Remarks	Source
619	LD50	OECD 401	100

Source : 100 – 100

Dermal toxicity [mg/kg]	Test criterion	Source
> 2000	LD50	100

Source : 100 – 100

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

Source : 100 – 100

Sensitization	Skin sensitizer
Measuring method	OECD 429
Carcinogenic effects	Not applicable.

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Mutagenicity Not applicable.

Reproduction toxicity Not applicable.

Caustic effect none 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

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

#### 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

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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.

Ready degradability

## 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

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]	Test criterion	Test species	Measuring method	Exposure duration	Source
24,1	NOEC	Daphnia magna (Big water flea).	OECD 202	21 d	100

Source : 100 – 100

Biodegradability Readily biodegradable.

Ready degradability

## Solvent naphtha (petroleum), light arom. (NOTA N)

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
8,2	LC50	Pimephales promelas (Pimephales promelas (fathead minnow))	96 h	100

Source : 100 – 100

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## Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Toxicity to fish [mg/l]	Test criterion	Measuring method	Exposure duration	Source
> 100	LC50	OECD Test Guideline 203	96 h	100

Source : 100 – 100

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
48	EC50	Daphnia magna (Big water flea).	48	OECD Test Guideline 202	100

Source : 100 – 100

Toxicity to algae [mg/l]	Test criterion	Measuring method	Source
> 100	EC50	OECD Test Guideline 201	100

Source : 100 – 100

Biodegradability Not readily biodegradable.

## 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.

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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
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 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

Decopaint regulation Exempt

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Carcinogenic hazardous substance as per Annex II GefStoffV no

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 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.  
H412: Harmful 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  
Eye Irrit.: Serious eye irritation  
Acute Tox.: Acute toxicity  
Aquatic Chronic: Hazardous to the aquatic environment

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

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [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.

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**fischer**   
innovative solutions

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

### **1.1 Product identifier**

Commercial Product Name            **FIS VL 360 S – Component B (Curing agent)**

### **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                            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    Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411

### **2.2 Label elements**

Hazard pictogram



GHS07



GHS09

Signal word

Warning

Hazardous component(s) to be indicated on label

dibenzoyl peroxide

H-statement(s)

H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.

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P-statement(s) H411: Toxic to aquatic life with long lasting effects.  
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.

## 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 (EC) 1272/2008	Concentration
dibenzoyl peroxide	CAS No. : 94-36-0 EC-No. : 202-327-6 Index-No. : 617-008-00-0 REACH No. : 01-2119511472-50	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400	10.0 – 25.0 % by weight

## 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

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 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.

## 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".

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## 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

**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

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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	black
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*m <sup>2</sup> )]	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

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Density [g/cm <sup>3</sup> ]	1,6 – 1,65
Pressure :	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
Viscosity, dynamic [kg/(m*s)]	100 – 160
Temperature :	20 °C
Risk of explosion.	Not explosive

## 9.2 Other information

Oxidizing properties	Oxidising
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.
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### 10.2 Chemical stability

Chemical stability	Stable under recommended storage conditions.
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### 10.3 Possibility of hazardous reactions

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

Conditions to avoid	No decomposition if used as directed.
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### 10.5 Incompatible materials

Materials to avoid	Not applicable.
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if used as directed.
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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Hazardous ingredients

##### 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.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Hazardous ingredients

##### 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

Ready degradability

NOEC (daphnia) [mg/l]

Value	Test species	Measuring method	Exposure duration
1	Daphnia magna (Big water flea).	OECD 202	48 h

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NOEC (algae) [mg/l]

Value	Test species	Measuring method	Exposure duration
0,5	Pseudokirchneriella sub-capitata	OECD 201	72 h

## 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 should not be allowed to enter drains, water courses or the soil.

## 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

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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
14.1 UN-No	3077	3077	3077
14.2 Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)
14.2 UN proper shipping name		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide)
14.3 Transport hazard class(es)	9	9	9
14.4 Packaging group	III	III	III
14.5 Environmental hazards	U – Environmentally hazardous	U – marine pollutant	U – Environmentally hazardous
Remarks	Not dangerous goods in original packaging (Special Provision 375)	Not dangerous goods in original packaging (Special Provision 969 )	Not dangerous goods in original packaging (Special Provision A197)

### 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 not applicable

Annex II of MARPOL73/78 and

the IBC Code

## 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 H-phrases  
H241: Heating may cause a fire or explosion.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H400: Very toxic to aquatic life.  
H411: Toxic to aquatic life with long lasting effects.

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Wording of the hazard classes      Eye Irrit.: Serious eye irritation  
Skin Sens.: Skin sensitization  
Aquatic Chronic: Hazardous to the aquatic environment  
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 (\*).

Classification for mixtures  
and used evaluation method  
according to regulation (EC)  
1272/2008 [CLP]

Classification	Evaluation
Skin Sens. 1; H317	Calculated
Eye Irrit. 2; H319	Calculated
Aquatic Chronic 2; H411	Experimental data

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.