

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

Commercial Product Name : FIS V 360/950 S – Component A (Mortar )

Revision Date : 28.03.2017

Version : 5.3 /en

**fischer**   
innovative solutions

Replaces version from : 11.01.2017

Print date : 05.04.2017

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

### **1.1 Product identifier**

Commercial Product Name            **FIS V 360/950 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

tetramethyldimethacrylat , Cement , portland , chemicals , 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 or doctor/physician.

## 2.3 Other hazards

Health hazard None known.

Particular information pertaining specific risk for human / environment None known.

Indication of danger None known.

Hazard precautions None known.

## SECTION 3: Composition/information on ingredients

### Hazardous ingredients

| Ingredient                   |  | Classification (EC) 1272/2008                      | Concentration           |
|------------------------------|--|--|-------------------------|
| tetramethyldimethacrylat     | CAS No. : 2082-81-7<br>EC-No. : 218-218-1<br>REACH No. : 01-2119967415-30  | Skin Sens. 1; H317                                 | 10.0 – 25.0 % by weight |
| Cement, portland, chemicals  | CAS No. : 65997-15-1<br>EC-No. : 266-043-4<br>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 |
| 2-hydroxypropyl methacrylate | CAS No. : 27813-02-1<br>EC-No. : 248-666-3<br>REACH No. : 01-2119490226-37   | Skin Sens. 1; H317 Eye Irrit. 2; H319              | 2.5 – 10.0 % 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.

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|                        |   |
|------------------------|---|
| 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.<br>Clean mouth with water and drink afterwards plenty of water. Drink 1 or 2 glasses of water.<br>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)<br>Dry powder<br>Foam<br>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.<br>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.<br>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.<br>Keep people away from and upwind of spill/leak. |
|----------------------|---|

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## 6.2 Environmental precautions

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

## 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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Cement, portland, chemicals**

Great Britain

| Long-term exposure value/ mg/m <sup>3</sup> | Remarks         | Source |
|---|-----------------|--------|
| 10  | inhalable dust  | 100    |
| 4   | respirable dust | 100    |

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Source : 100 – Company data

## 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.<br>Avoid contact with skin, eyes and clothing.<br>Take off all contaminated clothing immediately.<br>Wash hands before breaks and at the end of workday.<br>Keep away from food, drink and animal feedingstuffs.<br>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                                   | light grey        |
| Odour                                    | characteristic    |
| Odour threshold                          | not determined    |
| pH                                       | No data available |
| Melting point [°C] / Freezing point [°C] | No data available |

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|   |                    |
|---|--------------------|
| 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 – 1,8          |
| 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)]                       | 120 – 160          |
| 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

## 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.

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## 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

##### Tetramethylen dimethacrylate

| Oral toxicity [mg/kg] | Test criterion | Test species | Source |
|-----------------------|----------------|--------------|--------|
| > 2000                | LD50           | rat          | 100    |

Source : 100 – Company data

| Dermal toxicity [mg/kg] | Test criterion | Test species | Source |
|-------------------------|----------------|--------------|--------|
| > 3000                  | LD50           | rabbit       | 100    |

Source : 100 – Company data

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

Source : 100 – Company data

|                       |   |
|-----------------------|---|
| 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 | Source |
|--|------------------|--------|
|  | none             | 100    |

Source : 100 – Company data

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

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Source : 100 - Company data

## Cement, portland, chemicals

| Oral toxicity [mg/kg] | Test criterion | Remarks          | Source |
|-----------------------|----------------|------------------|--------|
| > 2000                | LD50           | literature value | 100    |

Source : 100 - Company data

| Dermal toxicity [mg/kg] | Test criterion | Test species | Remarks               | Source |
|-------------------------|----------------|--------------|-----------------------|--------|
| > 2000                  | LD50           | rabbit       | Limit test 2000 mg/kg | 100    |

Source : 100 - Company data

| Inhalative toxicity [mg/l] | Test criterion | Test species | Note                          | Source |
|----------------------------|----------------|--------------|-------------------------------|--------|
| > 5                        | LC50           | rat          | Limit Test 5 g/m <sup>3</sup> | 100    |

Source : 100 - Company data

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                         | Source |
|--|--|--------|
|  | Irritating to respiratory system. (dust) | 100    |

Source : 100 - Company data

| Specific target organ toxicity (repeated exposure) [mg/kg] | Remarks         | Source |
|--|-----------------|--------|
|  | Not applicable. | 100    |

Source : 100 - Company data

## 2-hydroxypropyl methacrylate

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

Source : 100 - Company data

| Dermal toxicity [mg/kg] | Test criterion | Test species | Source |
|-------------------------|----------------|--------------|--------|
| > 5000                  | LD50           | rabbit       | 100    |

Source : 100 - Company data

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

Source : 100 - Company data

Sensitization                        Skin sensitizer



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|                       |                                  |
|-----------------------|----------------------------------|
| 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         | Source |
|--|-----------------|--------|
|  | Not applicable. | 100    |

Source : 100 – Company data

| Specific target organ toxicity (repeated exposure) [mg/kg] | Remarks         | Source |
|--|-----------------|--------|
|  | Not applicable. | 100    |

Source : 100 – Company data

|                         |   |
|-------------------------|---|
| 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

##### Tetramethylen dimethacrylate

| Toxicity to fish [mg/l] | Test criterion | Measuring method | Exposure duration | Source |
|-------------------------|----------------|------------------|-------------------|--------|
| 32,5                    | LC50           | DIN 38412        | 48 h              | 100    |

Source : 100 – Company data

| 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 – Company data

| NOEC (daphnia) [mg/l] | Test species                    | Measuring method | Source |
|-----------------------|---------------------------------|------------------|--------|
| 7,51                  | Daphnia magna (Big water flea). | OECD 211         | 100    |

Source : 100 – Company data

|                  |                        |
|------------------|------------------------|
| Biodegradability | Readily biodegradable. |
|------------------|------------------------|

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Ready degradability

## Cement, portland, chemicals

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

Source : 100 – Company data

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

Source : 100 – Company data

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

Source : 100 – Company data

Biodegradability Not applicable. (inorganic)

## 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 – Company data

| 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 – Company data

| Toxicity to algae [mg/l] | Test criterion | Test species              | Exposure duration | Measuring method        | Source |
|--------------------------|----------------|---------------------------|-------------------|-------------------------|--------|
| > 97,2                   | EC50           | Selenastrum capricornutum | 72 h              | OECD Test Guideline 201 | 100    |

Source : 100 – Company data

| 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 – Company data

Biodegradability Readily biodegradable.

Ready degradability

## 12.2 Persistence and degradability

Elimination and distribution mechanisms There is no data available for this product.

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Elimination in purification plant There is no data available for this product.

## 12.3 Bioaccumulative potential

Bioaccumulation There is no data available for this product.

Bioconcentration factor (BCF) There is no data available for this product.

## 12.4 Mobility in soil

Distribution in the environment There is no data available for this product.

Mobility

Mobility : There is no data available for this product.

## 12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## 12.6 Other adverse effects

Further information on ecology The product itself has not been tested.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal considerations The product should not be allowed to enter drains, water courses or the soil.  
Dispose of waste according to applicable legislation.  
Empty remaining contents.

Waste Code According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
The following Waste Codes are only suggestions:  
Product (Mortar and Curing agent)  
200127 – paint, inks, adhesives and resins containing dangerous substances  
080409 – waste adhesives and sealants containing organic solvents or other dangerous substances  
cured material and completely squeezed cartridges  
200000 – MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

## SECTION 14: Transport information

|                               | Land transport ADR/RID             | Marine transport IMDG               | Air transport ICAO/IATA             |
|-------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| 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                  |

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|                                 | Land transport ADR/RID | Marine transport IMDG | Air transport ICAO/IATA |
|---------------------------------|------------------------|-----------------------|-------------------------|
| 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

## SECTION 15: Regulatory information

### 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.

## SECTION 16: Other information

Relevant H-phrases  
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.

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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

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.

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.

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

Commercial Product Name : FIS V 360/950 S – Component B (Hardener)

Revision Date : 28.03.2017

Version : 6.2 /en

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

### 1.1 Product identifier

Commercial Product Name            **FIS V 360/950 S – Component B (Hardener)**

### 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<br>EC-No. : 202-327-6<br>Index-No. : 617-008-00-0<br>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 – Company data

### 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. |
|-----------------------|---|

### 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. |
|----------------------------------|---------------------------------------|

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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 – Company data

| Inhalative toxicity [mg/l] | Test criterion | Test species | Note   | Source |
|----------------------------|----------------|--------------|--------|--------|
| 24300                      | LC50           | rat          | (dust) | 100    |

Source : 100 – Company data

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 – Company data

| Toxicity to daphnia [mg/l] | Test criterion | Test species               | Exposure duration | Source |
|----------------------------|----------------|----------------------------|-------------------|--------|
| 0,11                       | EC50           | Daphnia magna (Water flea) | 48 h              | 100    |

Source : 100 – Company data

| Toxicity to algae [mg/l] | Test criterion | Exposure duration | Source |
|--------------------------|----------------|-------------------|--------|
| 0,06                     | EC50           | 72 h              | 100    |

Source : 100 – Company data

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 MARPOL and the IBC Code

Transport in bulk according to not applicable

Annex II of MARPOL and the IBC

Code

## SECTION 15: Regulatory information

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

Restriction of occupation. –

Water Hazard Class (Ger.) 1

### 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.

## SECTION 16: Other information

Relevant H-phrases H241: Heating may cause a fire or explosion.  
H317: May cause an allergic skin reaction.

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Wording of the hazard classes

H319: Causes serious eye irritation.  
H400: Very toxic to aquatic life.  
H411: Toxic to aquatic life with long lasting effects.

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

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.

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.