

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

### **Product identifier**

Commercial Product Name           **F-Bond (400 ml)**

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

Relevant identified uses           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 Directive 67/548/EEC / 1999/45/EEC   R43 Xi; R36

Classification according to Regulation (EC) No. 1272/2008   Eye Dam. 1; H318 Skin Sens. 1; H317

### **Label elements**

Hazard symbols

Xi



Xi: Irritant

Hazardous component(s) to be indicated on label   2-hydroxypropyl methacrylate, dibenzoyl peroxide

R-phrase(s)                       R36: Irritating 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.

S37: Wear suitable gloves.

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	
Quartz (SiO <sub>2</sub> )	CAS No.: 14808-60-7 EC-No.: 238-878-4		25.0 - 50.0 % by weight
2-hydroxypropyl methacrylate	CAS No.: 27813-02-1 EC-No.: 248-666-3 Index-No.: 607-125-00-5	Xi; R36;R43 Eye Irrit. 2; H319 Skin Sens. 1; H317	2.5 - 10.0 % by weight
portland cement	CAS No.: 65997-15-2 EC-No.: 266-043-4	Xi; R37/38-41 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin STOT SE 3; H335	2.5 - 10.0 % by weight
dibenzoyl peroxide	CAS No.: 94-36-0 EC-No.: 202-327-6 Index-No.: 617-008-00-0	E; R3 O; R7 Xi; R36 R43 Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317	< 2.5 % 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.

#### Most important symptoms and effects, both acute and delayed

Symptoms None known.

#### Indication of any immediate medical attention and special treatment needed

Immediate medical attention No data available

Special medical treatment No data available

## **5. Firefighting measures**

### **Extinguishing media**

Suitable extinguishing media      Carbon dioxide (CO<sub>2</sub>)  
   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".

### **Reference to other sections**

Reference to other sections      See chapter 8/13

### **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)

### Specific end use(s)

Specific use(s)                                      composite mortar  
Further information: see technical data sheet.

## 8. Exposure controls/personal protection

### Control parameters

#### portland cement

Great Britain	Long-term exposure value/ mg/ m <sup>3</sup>	10
	remarks	inhalable dust
	Source	Firmendaten
Great Britain	Long-term exposure value/ mg/ m <sup>3</sup>	4
	remarks	respirable dust
	Source	Firmendaten

#### dibenzoyl peroxide

Great Britain	Long-term exposure value/ mg/ m <sup>3</sup>	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                                  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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Commercial Product Name: **F-Bond (400 ml)**

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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.

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

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

Form	paste
Colour	grey
Odour	characteristic
Odour threshold :	not determined
pH	No data available
Melting point	No data available
Boiling point / °C	no data available
Flash point / °C	> 100 °C
Evaporation rate	No data available
Flammability :	No data available
Explosion limits	
Lower limit:	not determined
Upper limit:	not determined
Risk of explosion.	Not explosive
Vapour pressure	No data available
Density	1,7 – 1,9 g/cm <sup>3</sup>
temperature:	20 °C

Water solubility	not determined
Solubility	No data available
Partition coefficient (n-octanol/water)	No data available
Autoinflammability	not auto-flammable
Decomposition temperature	not determined
Viscosity, dynamic	180 – 240 Pas
temperature:	20 °C

**Other information**

Relative vapour density (air=1)	not determined
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**10. Stability and reactivity****Reactivity**

Thermal decomposition	No decomposition if stored and applied as directed.
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**Chemical stability**

Chemical stability	Stable under recommended storage conditions.
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**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.
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**11. Toxicological information****Information on toxicological effects**

Oral toxicity / mg/kg	There is no data available for this product.
Dermal toxicity / mg/kg	There is no data available for this product.
Inhalative toxicity / mg/l	There is no data available for this product.
Irritant effect on skin	Irritating to skin and mucous membranes
Irritant effect on eyes	Irritating to eyes.
Symptoms	None known.

**Additional information**

Other information (chapter 11.)	There is no data available for this product.
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## **12. Ecological information**

### **Toxicity**

Toxicity to fish / mg/l	There is no data available for this product.
Toxicity to daphnia / mg/l	There is no data available for this product.
Toxicity to algae / mg/l	There is no data available for this product.

### **Persistence and degradability**

Elimination and distribution mechanisms	There is no data available for this product.
Elimination in purification plant	No data available

### **Bioaccumulative potential**

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

### **Mobility in soil**

Distribution in the environment	No data available
Mobility	
Mobility:	No data available

### **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).
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### **Other adverse effects**

Further information on ecology	No information on ecology is available.
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## **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.
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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
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	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**

**Special precautions for user**

Precautions not required under normal use

**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

**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 phrase(s) applying to ingredients	R3: Extreme risk of explosion by shock, friction, fire or other sources of ignition. R36: Irritating to eyes. R37/38: Irritating to respiratory system and skin. R41: Risk of serious damage to eyes. R43: May cause sensitisation by skin contact.
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H-statement(s) applying to ingredients	H241: Heating may cause a fire or explosion. 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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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.