

FIS P 380 C Injection Resin System

(according to § 14 GefStoffV and Directive 91/155/EEC)

Prepared on: 09/04/2002 Reviewed on: Printing date: 18.12.2006
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1. Identification of the substance/preparation and company

1.1 Trade name: fischer Injection Mortar FIS P 380 C
 1.2 Article number: 59234
 1.3 Typical application: Heavy duty anchoring free of expansion pressure
 1.4 Manufacturer/supplier: fischer Fixing Systems UK Ltd
 1.5 Address: Hithercroft Road, Wallingford, Oxfordshire, OX10 9AT
 1.6 Contact: Mirka Valoicova
 1.7 Telephone: 01491 827 920
 1.8 Telefax: 01491 827 950
 1.9 Emergency information: 0049 7443/12-4444

2. Composition/information on ingredients

Component A:

A.2.1 Chemical characterization: Formulation of methacrylates and cement

A.2.2 Dangerous components:

CAS – No.	EWG-No.	Material	Content [%]	Symbol	R-Phrases
27813-02-1	---	2-Hydroxypropylmethacrylate	< 10	Xi	36, 43
65997-15-1	---	Portlandcement CEMI 52,5 SW	< 10	Xi	38, 41

Component B:

B.2.1 Chemical characterization: Formulation of dibenzoyl peroxide, phlegmatized

B.2.2 Dangerous components:

CAS – No.	EWG-No.	Material	Content [%]	Symbol	R-Phrases
94-36-0	202-327-6	Dibenzoyl peroxide, phlegmatized	< 25	E, Xi	2, 7, 36, 43

3. Hazards identification

3.1 Hazard description:

A, B Xi Irritant
 B O Oxidising

3.2 Information pertaining to particular dangers for man and environment:

B R 7 May cause fire.
 A, B R 36 Irritating to eyes.
 A, B R 43 May cause sensitization by skin contact.

4. First aid measures

4.1 General information: Remove contaminated clothing.
 4.2 After inhalation: Rest, fresh air.
 4.3 After skin contact: Rinse thoroughly using water and soap.
 4.4 After eye contact: Open lid and thoroughly flush for 10 – 15 minutes using clean water. Consult a doctor.
 4.5 After swallowing: Immediately rinse out the mouth. DO NOT induce vomiting. Consult a doctor.
 4.6 Indications for the doctor: None.

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5. Fire-fighting measures

- 5.1 **Suitable extinguishing media:** Spray water, foam, dry powder extinguisher, carbon dioxide (CO₂).
- 5.2 **For safety reasons unsuitable extinguishing media:** Water applied with full jet.
- 5.3 **Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:** Fire may release carbon monoxide (CO) and carbon dioxide (CO₂).
- 5.4 **Special protective equipment for fire fighting:** Use breathing apparatus with independent air supply.
- 5.5 **Other information:** None.

6. Accidental release measures

- 6.1 **Person-related safety precautions:** Move all persons out of the hazard area
- 6.2 **Measures for environmental protection:** Do not allow to reach open waters, sewers or water pipes.
- 6.3 **Measures for cleaning/absorption:** Use liquid-binding material (e.g. sand, dry earth) to soak up. Take up solids by mechanical means. Fill into sealable and labelled containers and dispose as described in chapter 13.
- 6.4 **Other information:** None.

7. Handling and storage

7.1 Handling:

- 7.1.1 **Information for safe handling:** Use only in well ventilated work areas. Avoid direct exposure to sunlight. Maximum temperature (short-term) 35 °C, minimum temperature 0 °C.
- 7.1.2 **Information about protection against explosions and fires:** Keep product away from heat sources, open fires, etc., do not smoke.

7.2 Storage:

- 7.2.1 **Requirements to be met by storerooms and receptacles:** Keep cartridge tightly sealed in its original package and store in a dry, cool (max. 25 °C) and well ventilated place.
- 7.2.1 **Rules for the mixed storage of chemicals:** Do not store together with combustible substances.
- 7.2.3 **Further information about storage conditions:** Keep dry.
- 7.2.4 **Storage class:** 5.2 according to VCI guideline.

8. Exposure controls and personal protection

8.1 Additional information about design of technical systems:

No further information. See chapter 7.

8.2 Components with limit values that require monitoring at the workplace:

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CAS – No.	Material	Content [%]	Type	mg/m ³	ppm	Fibre/m ³ (F/G)
-	-	-	-	-	-	-

8.3 Additional information:

8.4 Personal protective equipment:

Respiratory protection: Not required.

Hand protection: Wear suitable protective gloves made of nitrile. See EN 374.

Eye protection: Tight-fitting safety goggles. See EN 166 F.

Body protection: Wear closed working clothes.

General protective and hygienic measures: Do not eat, drink or smoke while working. Immediately remove Contaminated clothes. Protect skin with protective skin cream. Avoid contact with skin, eyes and clothes.

9. Physical and chemical properties

9.1 Appearance:

	Component A	Component B
Form:	Paste	Paste
Colour:	Light grey	Dark grey
Odour:	Characteristic	Weak

9.2 Safety parameters:

	Component A	Component B	Method:
ph - Value at ... g/l H ₂ O; ... °C			
Change in condition:			
Boiling point/boiling range:	°C	°C	
Melting point/melting range:	< - 20 °C	approx.. 0 °C	
Oxidizing properties:	-	Yes	
Danger of explosion:	No	No	
Vapour pressure: at ... °C	hPa	hPa	
Density: at 20 °C	1.8 g/cm ³	1.6 g/cm ³	
Viscosity: at 20 °C	900000-1500000 mPa s	800000-1200000 mPa s	Brookfield Sp 7 0.5 rpm
Solvent content:	%	%	

9.3 Further information: ---

10. Stability and reactivity

10.1 Conditions to be avoided: Direct exposure to sunlight and temperatures exceeding 35 °C.

10.2 Materials to be avoided: None known, if cartridge is not damaged.

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- | | |
|---|---|
| 10.3 Hazardous decomposition products: | None, if used as specified. |
| 10.4 Further information: | Heat development during polymerization. |

11. Toxicological information

- | | |
|---|---|
| 11.1 Acute toxicity: | LD50/LC50 values which are relevant for classification: The product has not been tested. |
| 11.2 Specific symptoms in animal studies: | The product has not been tested. |
| 11.3 Irritant effects: | The product has not been tested. |
| 11.4 Sensitization: | The product has not been tested. |
| 11.5 Effects after repeated or longtime Exposition: | The product has not been tested. |
| 11.6 Carcinogenic, mutagenic, teratogenic or dangerous effects on fertility: | No. |
| 11.7 Further toxicological information: | Classification made in accordance with the method of determination specified in the formulation directive (1999/45/EG). |

12. Ecological information

- | | |
|--|--|
| 12.1 Information on elimination: | (Persistence and degradability): No information available. |
| 12.2 Behaviour in environmental compartments: | No information available. |
| 12.3 Ecotoxicological effects: | No data available. |
| 12.4 Further ecological information: | Do not allow components to reach open waters, sewers or water pipes. |

13. Disposal consideration

- | | |
|--|--|
| 13.1 <u>Product:</u> | |
| 13.1.1 Recommendation: | Uncured: Waste material requiring special supervision, to be disposed in compliance with official local regulations (e.g. suitable incineration plant).
Cured: May be disposed in compliance with official local regulations as domestic waste. |
| 13.1.2 European waste code: | 07 02 08 |
| 13.2 <u>Contaminated packaging:</u> | |
| 13.2.1 Recommendation: | Have to be disposed in compliance with official local regulations (e.g. suitable incineration plant). |
| 13.2.2 Recommended cleaning agent: | Cartridge cannot be cleaned. |
| 13.2.3 European waste code: | 15 01 10 |

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14. Transport information

14.1 Land transport ADR/RID/GGVS/GGVE:14.2 Inland navigation ADN/ADNR:14.3 Transport by sea IMDG/GGVSea:14.4 Air transport ICAO/IATA:

Remarks: Not considered as 'dangerous goods'.

14.5 **Transport/further information** Please contact Mr. Peter Glaser; telephone: ++49 7643/931058

15. Regulations

15.1 Labelling according to EC Directives/Gefahrstoffverordnung:

Component A:

15.1.1 Symbol(s) and indication(s) of danger:



Xi - Irritant

15.1.2 Hazard-determining component(s) for labelling:

Contains: 2-Hydroxypropylmethacrylate, Portland cement

15.1.3 R-Phrase:

R 36 Irritating to eyes.
R 43 May cause sensitization by skin contact.

15.1.4 S-Phrases:

S 24 Avoid contact with skin.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Component B:

15.1.1 Symbol(s) and indication(s) of danger:



Xi - Irritant



Oxidising

15.1.2 Hazard-determining component(s) for labelling:

Contains: Dibenzoyl peroxide

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15.1.3 R-Phrases:

R 7	May cause fire.
R 36	Irritating to eyes.
R 43	May cause sensitization by skin contact.

15.1.4 S-Phrases:

S 3	Keep in a cool place.
S 14	Keep away from reducing substances, acids, alkalies and heavy metal compounds.
S 24	Avoid contact with skin.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 37/39	Wear suitable gloves and eye/face protection.

15.1.5 Special designations for certain preparations: ---**15.2 National regulations (Germany):****15.2.1 Indications for employment control:** Observe § 2 Jugendarbeitsschutzgesetz**15.2.2 Regulations for incidents:****15.2.3 Classification according to VbF:** n.s.**15.2.4 Technical instructions (Air):****15.2.5 Water hazard class:** 1 (VwVwS)**15.2.6 Further regulations:****15.2.7 Limitations and prohibition regulations:**

16. Other information

16.1 Further information:

The above information describes exclusively the safety requirements of the product(s) and is based on our present knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

16.2 Department issuing MSDS: Department BT-C (Environment and Safety)
fischer Group of companies, location Denzlingen

16.3 Contact: Mr. Werner Schäuble; see chapter 1