

F-BOND 400 ml FIPC700 Polyester Resin Cartridge

Article number: 60129

Prepared on: 06/10th/2005
Version: 1.1

Reviewed on: 07/19th/2005

Printing date: 18.12.2006
Page: 1 of 6

1. Identification of the substance/preparation and company

1.1 Trade name: F-BOND 400 ml FIPC700 Polyester Resin Cartridge
1.2 Article number: 60129
1.3 Typical application: Heavy duty anchoring
1.4 Manufacturer/supplier: fischerwerke Artur Fischer GmbH & Co. KG/Artur Fischer (UK) Ltd
1.5 Address: Whitley Road, Hithercroft Ind Est, Wallingford, Oxon, Ox10 9AT
1.6 Contact: Mirka Valovicova
1.7 Telephone: 01491 827920
1.8 Telefax: 01491 827950
1.9 Emergency information: 0049 6132-84463 GBK Gefahrgut Büro GMBH Ingelheim

2. Composition/information on ingredients

Component A:

A.2.1 Chemical characterization: Formulation of resins and mineral fillers

A.2.2 Dangerous components:

CAS – No.	EWG-No.	Material	Content [%]	Symbol	R-Phrases
27813-02-1	248-666-3	2-Hydroxypropylmethacrylate	< 10	Xi	36, 43
622-97-9	210-762-8	4-Vinyltoluene	< 10	Xn, N	10, 20, 51/53

Component B:

B.2.1 Chemical characterization: Formulation of dibenzoylperoxide, softener and mineral fillers

B.2.2 Dangerous components:

CAS – No.	EWG-No.	Material	Content [%]	Symbol	R-Phrases
94-36-0	202-327-6	Dibenzoylperoxide	< 20	E, Xi	2, 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 43 May cause sensitization by skin contact.
A R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

4.1 General information: Remove contaminated, soaked clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.
4.2 After inhalation: Move person to fresh air and keep her calm. See a physician.
4.3 After skin contact: Wash off immediately with soap and water. If skin irritation occurs consult a physician.
4.4 After eye contact: Flush eyes thoroughly with a large amount of water and consult a physician.
4.5 After swallowing: Do not induce vomiting. Call a physician immediately.
4.6 Indications for the doctor: Treat symptomatically.

F-BOND 400 ml FIPC700 Polyester Resin Cartridge

Article number: 60129

Prepared on: 06/10th/2005
Version: 1.1

Reviewed on: 07/19th/2005

Printing date: 18.12.2006
Page: 2 of 6

5. Fire-fighting measures

- 5.1 **Suitable extinguishing media:** Foam, dry chemical, carbon dioxide, sand.
- 5.2 **For safety reasons unsuitable extinguishing media:** Do not use water in a jet.
- 5.3 **Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:** Combustion gases principally have to be considered as toxic substances.
- 5.4 **Special protective equipment for fire fighting:** Use breathing apparatus with independent air supply.
- 5.5 **Other information:** Contaminated firefighting water must not be discharged into the drainage system. Dispose of in compliance with official regulations.

6. Accidental release measures

- 6.1 **Person-related safety precautions:** Take care for adequate ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours.
- 6.2 **Measures for environmental protection:** Prevent product from getting into drains/surface water/groundwater.
- 6.3 **Measures for cleaning/absorption:** Remove mechanically. Dispose of in accordance with chapter disposal consideration..
- 6.4 **Other information:** None

7. Handling and storage

- 7.1 **Handling:**
 - 7.1.1 **Information for safe handling:** Use only in good ventilated areas. Do not eat, drink, smoke or take snuff while working.
 - 7.1.2 **Information about protection against explosions and fires:** Keep away from sources of ignition --- No smoking. In the event of fire, cool the endangered containers with water.
- 7.2 **Storage:**
 - 7.2.1 **Requirements to be met by storerooms and receptacles:** Keep in a dry, well ventilated place. Protect from heat and direct sunlight.
 - 7.2.2 **Rules for the mixed storage of chemicals:** Keep away from foodstuffs, beverages and animal feedstocks.
 - 7.2.3 **Further information about storage conditions:** Keep only in the original container. To maintain the quality let the temperature not exceed 25 °C.
 - 7.2.4 **Storage class:** 5.2 (VCI)

8. Exposure controls and personal protection

8.1 Additional information about design of technical systems:

Ensure well ventilation in the direct working area.

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

CAS – No.	Material	Content [%]	Type	mg/m ³	ppm	Fibre/m ³ (F/G)
622-97-9	4-Vinyltoluene	< 15	OES -LTEL	490	100	---

F-BOND 400 ml FIPC700 Polyester Resin Cartridge

Article number: 60129

Prepared on: 06/10th/2005
Version: 1.1

Reviewed on: 07/19th/2005

Printing date: 18.12.2006
Page: 3 of 6

8.3 Additional information: ---

8.4 Personal protective equipment:

Respiratory protection:	Breathing apparatus in case of high concentrations, short term: filter appliance, filter A
Hand protection:	Gloves according to EN 374 made from butyl or nitrile rubber. In practice, due to variable exposure conditions, this information can only be an aid to orientation for the selection of a suitable chemical protection glove. In particular, this information does not substitute suitability tests by the end user.
Eye protection:	Eye glasses with side protection.
Body protection:	Wear suitable protective clothing at work.
General protective and hygienic measures:	Do not eat, drink, smoke or take snuff while working. Avoid contact with eyes and skin and clothing. Preventive skin protection using barrier ointment. Wash hands before breaks and on finishing work.

9. Physical and chemical properties

9.1 Appearance:	Component A	Component B
Form:	Paste	Paste
Colour:	Light grey	Red
Odour:	Characteristic	Faint

9.2 Safety parameters:

	Component A	Component B	Method:
Change of state:			
Boiling point/boiling range:	N. d.	N. d.	
Melting point/melting range:	N. d.	N.d.	
Flash point:	N. d.	N. d.	
Oxidizing properties:	No	Yes	
Density: at 23 °C	1,7 – 1,9 g/cm ³	1,5 – 1,8 g/cm ³	
Viscosity: at 23 °C	200 – 300 Pa s	150 – 250 Pa s	Brookfield Sp. 7 , 10 rpm

9.3 Further information: None

10. Stability and reactivity

10.1 Conditions to be avoided:	Avoid direct sunlight and temperatures exceeding 35 °C.
10.2 Materials to be avoided:	No hazardous reactions if stored and handled as prescribed.
10.3 Hazardous decomposition products:	None when used as directed.
10.4 Further information:	Heat emission during polymerization.

11. Toxicological information

11.1 Acute toxicity:	LD50/LC50 values which are relevant for classification: Not tested.
11.2 Specific symptoms in animal	

F-BOND 400 ml FIPC700 Polyester Resin Cartridge

Article number: 60129

Prepared on: 06/10th/2005
Version: 1.1

Reviewed on: 07/19th/2005

Printing date: 18.12.2006
Page: 4 of 6

studies:	Not tested.
11.3 Irritant effects:	Not tested.
11.4 Sensitization:	May have a sensitising effect on human skin.
11.5 Effects after repeated or longtime Exposition:	Not tested.
11.6 Carcinogenic, mutagenic, teratogenic or dangerous effects on fertility:	No data available.
11.7 Further toxicological information:	The classification carried out according to the preparation directive (1999/45/EEC).

12. Ecological information

12.1 Information on elimination:	(Persistence and degradability): No data available.
12.2 Behaviour in environmental compartments:	No data available.
12.3 Ecotoxicological effects:	No data available.
12.4 Further ecological information:	Do not allow to enter soil, waterways or waste water

13. Disposal consideration

13.1 <u>Product:</u>	
13.1.1 Recommendation:	Waste is hazardous and therefore particularly to be kept under surveillance. It must be disposed of in accordance with the regulations in a suitable and licensed facility.
13.1.2 European waste code:	List of proposed waste codes/waste designations in accordance with EWC: 07 02 08; other still bottoms and reaction residues.
13.2 <u>Contaminated packaging:</u>	
13.2.1 Recommendation:	Cartridges containing residues of dangerous material have be disposed of in accordance with the regulations in a suitable and licensed facility.
13.2.2 Recommended cleaning agent:	Cartridges cannot be cleaned.
13.2.3 European waste code:	15 01 10; packaging containing residues of or contaminated by dangerous substances

14. Transport information

14.1 <u>Land transport ADR/RID/GGVS/GGVE:</u>	Not a dangerous good within the meaning of transportation regulations.
14.2 <u>Inland navigation ADN/ADNR:</u>	Not a dangerous good within the meaning of transportation regulations.
14.3 <u>Transport by sea IMDG/GGVSea:</u>	Not a dangerous good within the meaning of transportation regulations.
14.4 <u>Air transport ICAO/IATA:</u>	Not a dangerous good within the meaning of transportation regulations.
14.5 Transport/further information	Please contact Mr. Peter Glaser; telephone: ++49 7443/12-1535. Mobile: ++49 (170) 2271868

15. Regulations

15.1 <u>Labelling according to EC Directives/Gefahrstoffverordnung:</u>	
--	--

F-BOND 400 ml FIPC700 Polyester Resin Cartridge

Article number: 60129

Prepared on: 06/10th/2005
Version: 1.1

Reviewed on: 07/19th/2005

Printing date: 18.12.2006
Page: 5 of 6

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, CAS-Nr. 27813-02-1

15.1.3 R-Phrases:

R 43 May cause sensitisation by skin contact.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

15.1.4 S-Phrases:

S 2 Keep out of the reach of children.
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.
S 62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Component B:

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



Xi - Irritant



O - Oxidising

15.1.2 Hazard-determining component(s) for labelling:

Contains: Dibenzoylperoxide, CAS-Nr. 94-36-0

15.1.3 R-Phrases:

R 7 May cause fire.
R 43 May cause sensitisation by skin contact.

15.1.4 S-Phrases:

S 2 Keep out of the reach of children.
S 3 Keep in a cool place.
S 14 Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps).
S 36/37/39 Wear suitable protective clothing, 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 Jugendarbeitsschutzgesetz § 22 und Mutterschutzgesetz § 4

15.2.2 Regulations for incidents: ---

15.2.3 Giscode: N.a.

F-BOND 400 ml FIPC700 Polyester Resin Cartridge

Article number: 60129

Prepared on: 06/10th/2005
Version: 1.1

Reviewed on: 07/19th/2005

Printing date: 18.12.2006
Page: 6 of 6

- 15.2.4 Technical instructions (Air):** ---
- 15.2.5 Water hazard class:** 2
- 15.2.6 Further regulations:** Observe BG-Vorschriften
- 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. This data sheet has been created on basis of the information given by the departments, which are responsible for this product.

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

16.3 Contact: Mr. Werner Schäuble; see chapter 1

16.4 Full text of the R-Phrases in chapter 2: R 2 Risk of explosion by shock, friction, fire or other sources of ignition.
R 10 Flammable.
R 20 Harmful by inhalation.
R 36 Irritating to eyes.
R 43 May cause sensitisation by skin contact.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.5 Alterations have been made in chapter: 1 and headline