

fischer 1-Component Polyurethane Foam B2

Article number: See 1.2

Prepared on: 02/07th/2003
Version: 1.3

Reviewed on: 12/20th/2005

Printing date: 14.07.2006
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1. Identification of the substance/preparation and company

- 1.1 Trade name:** fischer 1-Component Polyurethane Foam B2
1.2 Article number: PU 1/500: Art.-No. 50426 + 33394/ PU 1/750: Art.-No. 53080
PUP 750: Art.-No. 53084
1.3 Typical application: Filling of cavities between solid parts of buildings made from metall or mineral building materials Isolation between walls and windows or doors or shutters
1.4 Manufacturer/supplier: fischerwerke Artur Fischer GmbH & Co. KG
1.5 Address: D-72178 Waldachtal, Weinhalde 14 - 18
1.6 Contact: Mr. Werner Schäuble
1.7 Telephone: 0049 7666/902-2965
1.8 Telefax: 0049 7666/902-2929
1.9 Emergency information: 0049 6132-84463 GBK Gefahrgut Büro GMBH Ingelheim

2. Composition/information on ingredients

- 2.1 Chemical characterization:** Urethaneprepolymer with liquefied propellants, non flammable, flammable and under pressure

2.2 Dangerous components:

CAS – No.	EWG-No.	Material	Content [%]	Symbol	R-Phrases
101-68-8	202-966-0	Diphenylmethane-4,4'-diisocyanate	5,0 – 10	Xn	20, 36/37/38, 42/43
13674-84-5	237-158-7	tris(2-chloroisopropyl)phosphate	15 – 20	Xn	22, 52, 53
106-97-8	203-448-7	butane; pure	2,5 – 10	F+	12
115-10-6	204-065-8	dimethyl ether	2,5 – 10	F+	12

3. Hazards identification

3.1 Hazard description:

F+ Extremely flammable
Xn Harmful

3.2 Information pertaining to particular dangers for man and environment:

R 42/43 May cause sensitisation by inhalation and skin contact.
R 36/37/38 Irritating to eyes, respiratory system and skin.

The classification is in line with current EC lists. If is expanded, however, by information from technical literature and by information furnished by supplier companies.

4. First aid measures

4.1 General information:

- 4.2 After inhalation:** Supply fresh air; consult doctor in case of symptoms.
4.3 After skin contact: Instantly wash with water and soap and rise thoroughly.
4.4 After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.
4.5 After swallowing: Do not induce vomiting, instantly call for medical help.
4.6 Indications for the doctor: **Danger:** Irritant effects by pasting.

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 For safety reasons unsuitable

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extinguishing media: Water with a full water jet.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:
Can be released in case of fire.:
Hydrogen fluoride (HF)
Hydrogen chloride (HCl)

5.4 Special protective equipment for fire fighting: Do not inhale explosion gases on combustion gases.

5.5 Other information: Cool endangered container with water spray jet.

6. Accidental release measures

6.1 Person-related safety precautions: Wear protective clothing. Ensure adequate ventilation.

6.2 Measures for environmental protection: No special measures required.

6.3 Measures for cleaning/absorption: Allow to solidify. Collect mechanically.

6.4 Other information: None.

7. Handling and storage

7.1 Handling:

7.1.1 Information for safe handling: Ensure good ventilation/ exhaustion at workplace.
Keep away from heat and direct sunlight.
Ensure good interior ventilation, especially at floor level (fumes are heavier than air.

7.1.2 Information about protection against explosions and fires: Keep ignition sources away – Do not smoke. Protect from heat.

7.2 Storage:

7.2.1 Requirements to be met by storerooms and receptacles: Observe official regulations on storing packaging with pressurised containers.

7.2.2 Rules for the mixed storage of chemicals: Observe recommendation of VCI.

7.2.3 Further information about storage conditions: Protect from heat and direct sunlight.
Best storage temperature: 18 – 22 °C.

7.2.4 Storage class: 2 B (VCI)

8. Exposure controls and personal protection

8.1 Additional information about design of technical systems:

No further data; see item 7.

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)
101-68-8	diphenylmethane – 4,4' - diisocyanate	5 – 10	TVL	0,05	0,005	---
115-10-6	dimethyl ether	2,5 – 10	TVL	1910	1000	---
106-97-8	butane, pure	2,5 - 10	TVL	2350	1000	---

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8.3 Additional information:

The list that were valid during the compilation were used as basis.

8.4 Personal protective equipment:

Respiratory protection:	Breathing equipment: Not necessary if room is well-ventilated.
Hand protection:	Protective gloves (material: butyl rubber).
Eye protection:	Safety glasses.
Body protection:	Protective work clothing.
General protective and hygienic measures:	Avoid contact with the skin. The usual precautionary measures should be adhered to in handling the chemicals.

9. Physical and chemical properties

9.1 Appearance:

Form:	Aerosol
Colour:	light yellow
Odour:	weak, characteristic

9.2 Safety parameters:

Method:

Change in condition:	
Boiling point/boiling range:	Not applicable as aerosol
Melting point/melting range:	Not applicable as aerosol
Flash point:	Not applicable as aerosol
Ignition temperature:	Propellant > 230 °C
Self igniting:	Product is not selfigniting
Danger of explosion:	Product is not explosive, however, formation of explosive air/steam mixture is possible.
Explosion limits:	
LEL:	1,5 Vol. - %
UEL:	18,6 Vol. - %
Applicable for the propellant	
Vapour pressure:	at 20 °C 5,5 – 6 bar
Density:	at 20 °C 0,9 – 1,1 g/cm ³
Solubility:	
Water:	at ... °C Not miscible or difficult to mix

9.3 Further information: Decomposition temperature: The cured foam may decompose at temperature above 100 °C. At temperature above 300 °C self-ignition is possible

10. Stability and reactivity

10.1 Conditions to be avoided:	No decomposition if used an stored according to specifications.
10.2 Materials to be avoided:	None known.
10.3 Hazardous decomposition products:	No dangerous decomposition products known (at combustion)

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10.4 Further information: Increasing inside pressure due warming up. Danger of bursting by overheating.

11. Toxicological information

- 11.1 Acute toxicity:** LD50/LC50 values which are relevant for classification: No data available.
- 11.2 Specific symptoms in animal studies:** No data available.
- 11.3 Irritant effects:** On the skin: Irritant for skin when pasting.
On the eye: Irritant effect: danger of pasting.
- 11.4 Sensitization:** Sensitisation possible by inhalation.
Not applicable for the cured foam.
- 11.5 Effects after repeated or longtime Exposition:** No data available.

12. Ecological information

- 12.1 Information on elimination:** (Persistence and degradability): The cured foam is not biodegradable.
- 12.2 Behaviour in environmental compartments:** No data available.
- 12.3 Ecotoxicological effects:** No data available.

13. Disposal consideration

13.1 Product:

- 13.1.1 Recommendation:** Contact waste processors for recycling information.
- 13.1.2 European waste code:** 080409

13.2 Contaminated packaging:

- 13.2.1 Recommendation:** Disposal must be made according to official regulations.
In Germany: recycling by PDR
- 13.2.2 Recommended cleaning agent:** fischer Polyurethane Cleaner PUR 150/500

14. Transport information

14.1 Land transport ADR/RID/GGVs/GGVE:

Classification:	2	UN - No.:	1950
Description of goods:	Aersols		
Remarks:	ADR, limited quantities		

14.2 Inland navigation ADN/ADNR: ---

14.3 Transport by sea IMDG/GGVSea: ---

14.4 Air transport ICAO/IATA: ---

- # 14.5 Transport/further information** Please contact Mr. Elmar Müller; telephone: ++49 7443/12-4896
mobile: ++49 151 – 18504887

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15. Regulations

15.1 Labelling according to EC Directives/Gefahrstoffverordnung:

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



Xn - Harmful



F⁺ - Extremely flammable

15.1.2 Hazard-determining component(s) for labelling:

Contains: Highly flammable propellants, Diphenylmethane -4,4'-diisocyanate

15.1.3 R-Phrases:

R 42/43 May cause sensitisation by inhalation and skin contact.
R 36/37/38 Irritating for eyes, respiratory system and skin.

15.1.4 S-Phrases:

S 2 Keep out of the reach of children.
S 23 Do not breathe gas/fumes/vapour/spray
S 25 Avoid contact with eyes.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 28 After contact with skin, wash immediately with plenty of water and soap.
S 45 In case of accident or you feel unwell, seek medical advice immediately
S 37 Wear suitable gloves.
S 39 Wear protective goggles.

15.1.5 Special designations for certain preparations:

Pressurised container. Protect from sunlight and do not expose to temperature exceeding 50 °C. Do not pierce or burn, even after use. Do not spray into a naked flame or any incandescent object. Keep away from sources of ignition – no smoking. Without adequate ventilation formation of explosives mixtures may occur. Contains Isocyanates. Observe manufacture's instructions.
Name, address, an tel.-no. of supplier or distributor.

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 12 Extremely flammable
R 20 Harmful by inhalation.
R 22 Harmful if swallowed.
R 36/37/38 Irritating for eyes, respiratory system and skin.
R 42/43 May cause sensitisation by inhalation and skin contact.
R 53 May cause long term adverse effects in the aquatic environment.

16.5 Alterations have been made in chapter: 14