

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

Product identifier

Commercial Product Name **B1-Gun Foam PUFS 750**

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

Relevant identified uses Foaming at constructional elements requiring advanced fire security standards, foaming in thermal insulation composite systems between EPS heat insulation panels, gaps of maximum 70 x 20 mm (depth x width), covered with mineral plaster, ideal construction and insulation foam for filling and sealing of cavities between brick work and window frames, window sills, roller blinds chassis etc., insulating of pipeline mountings.

Details of the supplier of the safety data sheet

Company designation fischerwerke GmbH & Co. KG
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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 F+; R12 R42/43 Xn; R20/22 R40 R48/20 Xi; R36/37/38

Classification according to Regulation (EC) No. 1272/2008 Flam. Aerosol 1; H222 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335

Label elements

Hazard symbols



F+: Extremely flammable



Xn: Harmful

1907/2006

Commercial Product Name: **B1-Gun Foam PUFs 750**

Revision date: 05.10.2011

Version: 1.1/en

Print date: 23.01.2012

Hazardous component(s) to be indicated on label	diphenylmethanediisocyanate, isomeres and homologues
R-phrase(s)	<p>R12: Extremely flammable.</p> <p>R20: Harmful by inhalation.</p> <p>R36/37/38: Irritating to eyes, respiratory system and skin.</p> <p>R40: Limited evidence of a carcinogenic effect.</p> <p>R42/43: May cause sensitisation by inhalation and skin contact.</p> <p>R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.</p>
S-phrase(s)	<p>S2: Keep out of the reach of children.</p> <p>S23: Do not breathe spray.</p> <p>S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S28: After contact with skin, wash immediately with plenty of water and soap.</p> <p>S37/39: Wear suitable gloves and eye/face protection.</p> <p>S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p> <p>S51: Use only in well-ventilated areas.</p> <p>S56: Dispose of this material and its container to hazardous or special waste collection point.</p>
Special labelling for certain preparations	<p>Contains isocyanates. See information supplied by the manufacturer.</p> <p>Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any other incandescent material. Keep away from sources of ignition – No smoking. In use, may form flammable/explosive vapour-air mixture. Keep away from children.</p> <p>Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.</p>
Other hazards	
Particular information pertaining specific risk for human / environment	<p>Contains isocyanates. See information supplied by the manufacturer.</p> <p>Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.</p>

Also after use, do not open with force or burn.
Do not spray on a naked flame or any other incandescent material.
Keep away from sources of ignition – No smoking.
In use, may form flammable/explosive vapour-air mixture.
Keep away from children.

3. Composition/information on ingredients

Hazardous ingredients

Ingredient		Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
diphenylmethanediisocyanate, isomers and homologues	CAS No.: 9016-87-9 REACH No.: 01-2119457024-46-0000	Carc.Cat.3; R40 R42/43 Xn; R20-48/20 Xi; R36/37/38 Resp. Sens. 1; H334 Carc. 2; H351 STOT RE 2; H373 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335	25.0 – 50.0 %
tris(2-chloro-1-methylethyl) phosphate	CAS No.: 13674-84-5 EC-No.: 237-158-7 REACH No.: 01-2119486772-26-0000	Xn; R22	10.0 – 25.0 %
isobutane	CAS No.: 75-28-5 EC-No.: 200-857-2 Index-No.: 601-004-00-0	F+; R12 Flam. Gas 1; H220 Press. Gas; H220	2.5 – 10.0 %
dimethyl ether	CAS No.: 115-10-6 EC-No.: 204-065-8 Index-No.: 603-019-00-8 REACH No.: 01-2119472128-37-0000	F+; R12 Flam. Gas 1; H220 Press. Gas; H220	2.5 – 10.0 %
2,2-dimethylpropan-1-ol, tribromo derivative	CAS No.: 36483-57-5 EC-No.: 253-057-0	Xi; R36 Eye Irrit. 2; H319	2.5 – 10.0 %
propane	CAS No.: 74-98-6 EC-No.: 200-827-9 Index-No.: 601-003-00-5	F+; R12 Flam. Gas 1; H220 Press. Gas; H220	< 2.5 %

4. First aid measures

Description of first aid measures

General advice	If symptoms persist, call a physician. Take off all contaminated clothing immediately. 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. If unconscious place in recovery position and seek medical advice.
In case of skin contact	Use mechanical handling equipment. IF ON SKIN: Gently wash with plenty of soap and water.
In case of eye contact	Use mechanical handling equipment. 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.

5. Firefighting measures

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

Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases Container may rupture on heating.
Heating or fire can release toxic gas.
May form explosive mixtures in air.

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 away from sources of ignition – No smoking.
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 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Allow to solidify, use mechanical handling equipment.
Ensure adequate ventilation.

Do not flush with water.

Reference to other sections

Reference to other sections See chapter 8/13

Additional information

Other information Treat recovered material as described in the section "Disposal considerations".
Dispose of in accordance with local regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle and open container with care.
Provide sufficient air exchange and/or exhaust in work rooms.
Vapours are heavier than air and may spread along floors.
BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

Advice on protection against fire and explosion Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Take precautionary measures against static discharges.
Do not spray on a naked flame or any other incandescent material.
Keep away from sources of ignition – No smoking.
In use, may form flammable/explosive vapour-air mixture.

Conditions for safe storage, including any incompatibilities

Storage space and container requirements Keep containers tightly closed in a cool, well-ventilated place.
Container may rupture on heating.
Store in accordance with local regulations.

German storage class LGK 2B (TRGS 510)

8. Exposure controls/personal protection

Control parameters

dimethyl ether

Great Britain

Long-term exposure value/ ppm	400
Long-term exposure value/ mg/ m3	766
Short-term exposure value / ppm	500
Short-term exposure value / mg/ m3	958
remarks	R12
Source	EH40/200 Workplace exposure limits (October 2007)

Europe

Long-term exposure value/ mg / m3	1 920
Long-term exposure value/ ppm	1 000
Issuing date	2000/39
Source	DIRECTIVE 2009/161/EU

Exposure controls

Respiratory protection	In case of inadequate ventilation wear respiratory protection.
Hand protection	professional users(long contact):Wear protective gloves.
Suitable material:	butyl-rubber, Chloroprene, Nitrile rubber
Unsuitable material:	PVC disposable gloves
Material thickness:	>= 0,5 mm
Break through time:	>120 min
remarks:	Replace when worn.
Reference substance:	Request information on glove permeation properties from the glove supplier.. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
	private users (short contact):
Suitable material:	attached disposable gloves
remarks:	Use gloves once only.
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. Do not breathe vapors, mist or gas. 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 aerosol

Colour	beige
Odour	characteristic
Boiling point / °C	not applicable (aerosol)
Flash point / °C	not applicable (aerosol)
Risk of explosion.	In use, may form flammable/explosive vapour-air mixture.
Density	≈ 1 g/cm ³
temperature:	20 °C
Water solubility	immiscible
Autoinflammability	not auto-flammable
Other information	
Ignition temperature	> 200 °C

10. Stability and reactivity

Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid

Conditions to avoid Container may rupture on heating.
No decomposition if used as directed.

Incompatible materials

Materials to avoid No dangerous reaction known under conditions of normal use.

Hazardous decomposition products

Hazardous decomposition prod- Carbon oxides
ucts nitrogen oxides (NO_x)

11. Toxicological information

Information on toxicological effects

Irritant effect on skin Irritating to skin and mucous membranes
Irritant effect on eyes Irritating to eyes.
Sensitization May cause sensitization by inhalation and skin contact.

12. Ecological information

Results of PBT and vPvB assessment

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

Other adverse effects

Further information on ecology Further information on ecology: None known.

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.

Waste Code 080501 – waste isocyanates
160504 – gases in pressure containers (including halons) containing dangerous substances

Uncleaned empty packaging Dispose of as unused product.

14. Transport information

	Land transport GGVS/ ADR/RID	Marine transport IMDG/ GGVSee	Air transport ICAO/IATA
UN-No	1950	1950	1950
Class	2	2.1	2.1
Description of the goods	AEROSOLS	AEROSOLS	
Proper shipping name		AEROSOLS	Aerosols, flammable
Labels	2.1	2.1	2.1 – Gases: Flammable
Category	2		
Classification Code	5F		
Tunnel restriction code	D		
remarks	inflammable	(maximum 1 L) flammable	
EmS		F-D;S-U	
Environmental hazards		0: Non-marine pollutant	
Stowage category		A	

15. Regulatory information

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

Additional regulations Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Water hazard class (self-classification) 1

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

R12: Extremely flammable.
R20: Harmful by inhalation.
R36: Irritating to eyes.
R36/37/38: Irritating to eyes, respiratory system and skin.
R40: Limited evidence of a carcinogenic effect.
R42/43: May cause sensitisation by inhalation and skin contact.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H-statement(s) applying to ingredients

H220: Extremely flammable gas.
H319: Causes serious eye irritation.

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.