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SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: BOSTIK FP 404 FR PU GUNFOAM B1 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture One component insulation and construction PU foam developed to make a seal between construction parts. · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Bostik Romania SRL 51 Rasaritului Street (DN7), 070000 Buftea, Ilfov, Romania Phone: +40 (372) 833 300; Fax: +40 (372) 833 301; www.bostik.com; www.denbraven.ro · Further information obtainable from: Product safety department. • 1.4 Emergency telephone number: +40 (372) 833 300 during normal opening times 08:30-17:00 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS02 flame H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. Aerosol 1 GHS08 health hazard Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Carc. 2 H351 Suspected of causing cancer. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS07 Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 Causes skin irritation. H315 Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation. · 2.2 Label elements [•] Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS02 GHS07 GHS08 (Contd. on page 2)



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Hazard st	
H332	9 Extremely flammable aerosol. Pressurised container: May burst if heated. Harmful if inhaled.
нзэ <u>г</u> Н315	Causes skin irritation.
H319	
H319 H334	Causes serious eye irritation.
H317	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351	May cause an allergic skin reaction. Suspected of causing cancer.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
Precautio P101	nary statements
	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103 P210	Read label before use.
P210 P211	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P211 P251	Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
P260	
P200 P271	Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P35	
P304+P34	
	1+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if preser
1 505 1 55	and easy to do. Continue rinsing.
P410+P41	
P501	Dispose of contents/container in accordance with local/regional/national/international
1 501	regulations.
Additiona	l information:
	socyanates. May produce an allergic reaction.
	f explosive mixtures possible without sufficient ventilation.
	ready sensitised to diisocyanates may develop allergic reactions when using this product.
	offering from asthma, eczema or skin problems should avoid contact, including dermal contact, with thi
product.	fiering noni ustinini, eezenik of skin proofenis shourd uvora eeniket, merkunig uerinki eeniket, whi th
	act should not be used under conditions of poor ventilation unless a protective mask with an appropriat
	i.e. type A1 according to standard EN 14387) is used.
2.3 Other	
	PBT and vPvB assessment
	applicable.
	t applicable.
VPVB: NO	

• Description: Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:		
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues 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	25-50%
CAS: 13674-84-5 EINECS: 237-158-7 Reg.nr.: 01-2119486772-26-xxxx	tris(2-chlorisopropyl)-phosphate Acute Tox. 4, H302	5-20%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane Flam. Gas 1, H220; Press. Gas (Comp.), H280	2.5-10%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8	dimethyl ether Flam. Gas 1, H220; Press. Gas (Comp.), H280	2.5-10%
CAS: 68441-62-3	 2-butyne-1,4-diol, polymer with 2-(chloromethyl)oxirane, brominated,dehydrochlorinated, methoxylated Acute Tox. 4, H302; Eye Irrit. 2, H319 	1-5%
• Additional information: For the	wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

· 4.1 Description of first aid measures

[·] General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.

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Bostik smart adhesives

Safety data sheet according to 1907/2006/EC, Article 31

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- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- •7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- \cdot Information about fire and explosion protection:
- Keep ignition sources away Do not smoke.
- Keep respiratory protective device available.
- ·7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Observe official regulations on storing packagings with pressurised containers.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- •7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppm

Long-term value: 766 mg/m³, 400 ppm

• Additional information: The lists valid during the making were used as basis.

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· 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Not necessary if room is well-ventilated. Short term filter device: Filter AX · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves Recommended thickness of the material: $\geq 0.5 \text{ mm}$ Nitrile rubber, NBR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection: Safety glasses · Body protection: Protective work clothing **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Aerosol According to product specification **Colour:** Characteristic **Odour:**

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· Flash point:	Not applicable, as aerosol.
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	235 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Not determined.
· Explosion limits:	
Lower:	1.7 Vol %
Upper:	18.6 Vol %
· Vapour pressure at 23 °C:	5-6 bar
· Density at 23 °C:	1.0493 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
• 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

Harmful if inhaled. • LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 10,000-50,000 mg/kg (rat)

Inhalative LC50/4 h 3-6 mg/l

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13674-84-5 tris(2-chlorisopropyl)-phosphate

Oral LD50 3,600 mg/kg (rat)

115-10-6 dimethyl ether

Inhalative LC50/4 h 308 mg/l (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- \cdot Serious eye damage/irritation
- Causes serious eye irritation.
- Respiratory or skin sensitisation
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- Suspected of causing cancer.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation.
- · STOT-repeated exposure
- May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European	waste catalogue
08 05 01*	waste isocyanates
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
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HP3	Flammable	
HP4	Irritant - skin irritation and eye damage	
HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity		
HP6	HP6 Acute Toxicity	
HP7	Carcinogenic	
HP13	Sensitising	

• Uncleaned packaging: • Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
	011750
• 14.2 UN proper shipping name • ADR	1950 AEROSOLS
·IMDG	AEROSOLS
·IATA	AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
· ADR	
· Class	2 5F Gases.
· Label	2.1
· IMDG, IATA	
· Class	2.1
·Label	2.1
· 14.4 Packing group	
· ADR, IMDG, IATA	not regulated
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Gases.
· Danger code (Kemler): · EMS Number:	- F-D,S-U
· Stowage Code	SW1 Protected from sources of heat.
Stowage Cour	SW22 For AEROSOLS with a maximum capacity of 1 litr
	Category A. For AEROSOLS with a maximum capacity of 1 har
	Category B. For WASTE AEROSOLS: Category C, Clear
	living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre:



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	except for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to An	inex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
1 1	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

- Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements $150\,t$
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements $500\ t$
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

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H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
· Department issuing SDS: Product safety department.
· Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Acute Tox. 4: Acute toxicity - inhalation – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
GE