



Page 1 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

4F Flat Roof Foam B1 800 ml

Art.: 9095754

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

Relevant identified uses of the substance or mixture:

Adhesive

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG

Salzstr. 51

74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (BRC)

+1 872 5888271 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Acute Tox.	4	H332-Harmful if inhaled.
STOT RE	2	H373-May cause damage to organs through prolonged or
		repeated exposure.
Eye Irrit.	2	H319-Causes serious eye irritation.
STOT SE	3	H335-May cause respiratory irritation.
Skin Irrit.	2	H315-Causes skin irritation.





Page 2 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Resp. Sens.	1	H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Carc.	2	H351-Suspected of causing cancer.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H332-Harmful if inhaled. H373-May cause damage to organs through prolonged or repeated exposure. H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an allergic skin reaction. H351-Suspected of causing cancer. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P201-Obtain special instructions before use. P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing / eye protection / face protection. P284-Wear respiratory protection.

P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313-IF exposed or concerned: Get medical advice / attention.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

EUH204-Contains isocyanates. May produce an allergic reaction.

Without adequate ventilation, formation of explosive mixtures may be possible. As from 24 August 2023 adequate training is required before industrial or professional use. Diphenylmethanediisocyanate, isomeres and homologues

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).





Page 3 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

PU-foam

3.1 Substances

n.a.

3.2 Mixtures

Diphenylmethanediisocyanate, isomeres and homologues	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	25-50
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %

Tris(2-chlorisopropyl)phosphate	
Registration number (REACH)	01-2119447716-31-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	237-158-7
CAS	13674-84-5
content %	10-20
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP), M-factors	

Dimethyl ether	Substance for which an EU exposure limit
	value applies.
Registration number (REACH)	01-2119472128-37-XXXX
Index	603-019-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	204-065-8
CAS	115-10-6
content %	2,5-10
Classification according to Regulation (EC) 1272/2008	Flam. Gas 1A, H220
(CLP), M-factors	

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures





Page 4 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Irritation of the skin.

Watering eyes

Irritation of the eyes

Irritation of the respiratory tract

Coughing

Oedema of the lungs

breathing difficulties

Respiratory distress

In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Extinction powder

Water jet spray

Foam

Large fire:

Water jet spray

Alcohol resistant foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Hydrogen chloride

Hydrogen cyanide

Toxic gases





Page 5 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Danger of bursting (explosion) when heated

Possible build up of explosive/highly flammable vapour/air mixture.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Allow product to harden.

Pick up mechanically and dispose of according to Section 13.

Recommended cleaner:

Acetone

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Take precautions against electrostatic charges.

Do not use on hot surfaces.





Page 6 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Avoid contact with eyes or skin.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Observe special regulations for aerosols!

Observe special storage conditions.

Do not store with oxidizing agents.

Do not store with alkalis.

Do not store with acids.

Keep protected from direct sunlight and temperatures over 50°C.

Isobutane

Store in a well ventilated place.

Store cool.

BMGV:

© Chemical Name

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Dimbonvilmosth	amadiiaa arramata i		and hamalaayaa		Content
Chemicai Name	Diphenyimeur	anediisocyanate, i	isomeres	and nomologues		%:25-50
WEL-TWA: 0,02 mg/m3 (Isocyanates,	WEL-STEL: (0,07 mg/n	n3 (Isocyanates,		
all (as -NCO))		all (as -NCO))				
Monitoring procedures:						
BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information:					Sen	(Isocyanates,
(At the end of the period of e			all (as -NCO))			
8					Content	
Chemical Name	Dimethyl ethe	r				%:2,5-10
WEL-TWA: 400 ppm (766	5 mg/m3)	WEL-STEL: 5	500 ppm	(958 mg/m3)		,
(WEL), 1000 ppm (1920 mg	/m3) (EU)	(WEL)				
Monitoring procedures:	- (Compur - KITA-1	23 S (549	9 129)		
BMGV:				Other information:		
® Chemical Name	Propane					Content %:
Chemical I tame		WEL-STEL: -				Content /0.
WEL-TWA: 1000 ppm (A				10.07.1		
Monitoring procedures:	- (Compur - KITA-1	.25 SA (5	49 954)		

OSHA PV2077 (Propane) - 1990

Other information:

Content %:





Page 7 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

WEL-TWA: 1000 ppm (EX) (ACGIH)	WEL-STEL:	
Monitoring procedures: -	Compur - KITA-113 SB(C) (549 368)	
BMGV:	Other information	:

Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	1	mg/l	
	freshwater					
	Environment - marine		PNEC	0,1	mg/l	
	Environment - water,		PNEC	10	mg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
	Environment - soil		PNEC	1	mg/kg	
Consumer	Human - oral	Short term, local	DNEL	20	mg/kg	
		effects			bw/d	
Consumer	Human - inhalation	Short term, local	DNEL	0,05	mg/m3	
		effects				
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects				
Consumer	Human - inhalation	Long term, local	DNEL	0,025	mg/m3	
		effects				
Consumer	Human - inhalation	Long term,	DNEL	0,025	mg/m3	
		systemic effects				
Consumer	Human - dermal	Short term, local	DNEL	17,2	mg/cm2	
		effects				
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			bw/d	
Workers / employees	Human - inhalation	Short term, local	DNEL	0,1	mg/m3	
		effects				
Workers / employees	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
		systemic effects				
Workers / employees	Human - inhalation	Long term, local	DNEL	0,05	mg/m3	
		effects				
Workers / employees	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
		systemic effects				
Workers / employees	Human - dermal	Short term, local	DNEL	28,7	mg/cm2	
		effects				
Workers / employees	Human - dermal	Short term,	DNEL	50	mg/kg	
		systemic effects			bw/d	

Tris(2-chlorisopropyl)phosphate						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					





Page 8 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

	Environment - freshwater		PNEC	0,64	mg/l
	Environment - marine		PNEC	0,064	mg/l
	Environment - sewage treatment plant		PNEC	7,84	mg/l
	Environment - oral (animal feed)		PNEC	11600	g/kg feed
Consumer	Human - oral	Long term, systemic effects	DNEL	0,52	mg/kg bw/d
Consumer	Human - oral	Short term, systemic effects	DNEL	0,52	mg/kg bw/d
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,04	mg/kg bw/d
Consumer	Human - dermal	Short term, systemic effects	DNEL	1,04	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,46	mg/m3
Consumer	Human - inhalation	Short term, systemic effects	DNEL	1,46	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,08	mg/kg bw/d
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	2,08	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,82	mg/m3
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	5,82	mg/m3

Dimethyl ether						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	0,155	mg/l	
	freshwater					
	Environment -		PNEC	0,681	mg/kg	
	sediment, freshwater					
	Environment - soil		PNEC	0,045	mg/kg	
	Environment -		PNEC	160	mg/l	
	sewage treatment					
	plant					
	Environment - marine		PNEC	0,016	mg/l	
	Environment - water,		PNEC	1,549	mg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	0,069	mg/kg	
	sediment, marine					
Consumer	Human - inhalation	Long term,	DNEL	471	mg/m3	
		systemic effects				





Page 9 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Workers / employees	Human - inhalation	Long term,	DNEL	1894	mg/m3	
		systemic effects				

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

>=0.5

Permeation time (penetration time) in minutes:

>= 480





Page 10 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter ABEK-P2 (EN 14387), code colour brown, grey, yellow, green, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol. Active substance: liquid.

Colour: Light green
Odour: Characteristic

Melting point/freezing point:

Boiling point or initial boiling point and boiling range:

There is no information available on this parameter.

There is no information available on this parameter.

Flammability: Does not apply to aerosols.

Lower explosion limit: 1,7 Vol-% Upper explosion limit: 18,6 Vol-%

Flash point: Does not apply to aerosols.

Auto-ignition temperature: 235 °C

Decomposition temperature: There is no information available on this parameter.

pH: Mixture reacts with water. Kinematic viscosity: Does not apply to aerosols.

Minematic viscosity.

Does not apply to

Solubility: Mixable

Partition coefficient n-octanol/water (log value): Does not apply to mixtures.





Page 11 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Vapour pressure: There is no information available on this parameter.

Density and/or relative density: 1,06 g/cm3 (20°C)

Relative vapour density:

Particle characteristics:

Does not apply to aerosols.

Does not apply to aerosols.

9.2 Other information

Explosives: When using: development of explosive vapour/air

mixture possible.

Oxidising liquids: There is no information available on this parameter.

Solvents content: 0,6 % (Organic solvents)

SECTION 10: Stability and reactivity

10.1 Reactivity

Possible build up of explosive/highly flammable vapour/air mixture.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Polymerisation possible

10.4 Conditions to avoid

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Polymerisation possible with:

Amines

Bases

Acids

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

4F Flat Roof Foam B1 800 ml								
Art.: 9095754								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral						n.d.a.		
route:								
Acute toxicity, by						n.d.a.		
dermal route:								
Acute toxicity, by						n.d.a.		
inhalation:								
Skin corrosion/irritation:						n.d.a.		
Serious eye						n.d.a.		
damage/irritation:								
Respiratory or skin						n.d.a.		
sensitisation:								
Germ cell mutagenicity:						n.d.a.		





Page 12 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Carcinogenicity:		n.d.a.
Reproductive toxicity:		n.d.a.
Specific target organ		n.d.a.
toxicity - single		
exposure (STOT-SE):		
Specific target organ		n.d.a.
toxicity - repeated		
exposure (STOT-RE):		
Aspiration hazard:		n.d.a.
Symptoms:		n.d.a.

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
·	nt			S		
Acute toxicity, by oral	LD50	>10000	mg/kg	Rat	OECD 401 (Acute	
route:					Oral Toxicity)	
Acute toxicity, by	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Acute toxicity, by	LC50	0,49	mg/l/4h	Rat	OECD 403 (Acute	Aerosol,
inhalation:					Inhalation	Does not
					Toxicity)	conform
						with EU
						classification
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Mild irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin
sensitisation:					Sensitisation)	contact)
Respiratory or skin				Rat		Yes
sensitisation:						(inhalation)
Germ cell mutagenicity:				Salmonella	Regulation (EC)	Analogous
				typhimuri	440/2008	conclusion,
				um	B.13/B.14	Negative
					(REVERSE	
					MUTATION	
					TEST USING	
					BACTERIA)	
Germ cell mutagenicity:				Rat	OECD 474	Negative,
					(Mammalian	Analogous
					Erythrocyte	conclusion
					Micronucleus	
					Test)	





Page 13 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

				-	0700 450	~
Carcinogenicity:		1	mg/m3	Rat	OECD 453	Positive
					(Combined	
					Chronic	
					Toxicity/Carcinoge	
					nicity Studies)	
Reproductive toxicity		4	mg/m3	Rat	OECD 414	Negative
		4	IIIg/III3	Kat		Negative
(Developmental					(Prenatal	
toxicity):					Developmental	
					Toxicity Study)	
Reproductive toxicity				Rat	OECD 414	Negative
(Effects on fertility):					(Prenatal	S
(Enects on retuncy).					Developmental	
					Toxicity Study)	
70	NOAFI	10	/ 2	D .		37
Reproductive toxicity:	NOAEL	12	mg/m3	Rat	OECD 414	Negative,
					(Prenatal	Aerosol
					Developmental	
					Toxicity Study)	
Specific target organ	1				= 5.1101ty Study)	Irritation of
toxicity - single						the
exposure (STOT-SE):						respiratory
						tract
Specific target organ	NOEC	0,2	mg/kg		OECD 453	
toxicity - repeated					(Combined	
exposure (STOT-RE):					Chronic	
exposure (STOT RE).					Toxicity/Carcinoge	
					nicity Studies)	> T
Aspiration hazard:						No
Symptoms:						fever,
						coughing,
						headaches,
						nausea and
						vomiting.,
						dizziness,
						breathing
						difficulties,
						laryngeal
						oedema,
						abdominal
						pain,
						diarrhoea
Specific target organ						Target
toxicity - single	1					organ(s):
exposure (STOT-SE),	1					respiratory
inhalative:	1					organs, May
Illimutti vo.						cause
						respiratory
						irritation.

Tris(2-chlorisopropyl)phosphate							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						





Page 14 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Acute toxicity, by oral route:	LD50	1150-1750	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	4,6	mg/l/4h	Rat	• /	Aerosol
Acute toxicity, by inhalation:	LC50	>7,19	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:						Not irritant
Serious eye						Not irritant
damage/irritation:						
Germ cell mutagenicity:					(Ames-Test)	Negative
Reproductive toxicity:				Rat		Negative
Symptoms:						respiratory distress, loss of hair,
						cramps, watering eyes

Dimethyl ether								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by	LC50	164	mg/l/4h	Rat				
inhalation:								
Skin corrosion/irritation:						Not irritant		
Serious eye						Not irritant		
damage/irritation:								
Respiratory or skin						No (skin		
sensitisation:						contact)		
Germ cell mutagenicity:					OECD 471	Negative		
					(Bacterial Reverse			
					Mutation Test)			
Germ cell mutagenicity:					OECD 473 (In	Negative		
					Vitro Mammalian			
					Chromosome			
					Aberration Test)			
Germ cell mutagenicity:					OECD 477	Negative		
					(Genetic			
					Toxicology - Sex-			
					Linked Recessive			
					Lethal Test in			
					Drosophilia			
					melanogaster)			
Carcinogenicity:	NOAEC	47000	mg/m3	Rat	OECD 453	Negative		
					(Combined			
					Chronic			
					Toxicity/Carcinoge			
					nicity Studies)			





Page 15 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Reproductive toxicity:	NOAEL	5000	ppm	Rat	OECD 414	
					(Prenatal	
					Developmental	
					Toxicity Study)	
Specific target organ	NOAEC	47106	mg/kg	Rat	OECD 452	Negative(2
toxicity - repeated					(Chronic Toxicity	a)
exposure (STOT-RE):					Studies)	
Aspiration hazard:						No
Symptoms:						unconsciousn
						ess,
						headaches,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.,
						frostbite,
						gastrointestin
						al
						disturbances,
						respiratory
						distress,
						circulatory
						collapse

Propane								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by	LC50	658	mg/l/4h	Rat				
inhalation:								
Acute toxicity, by	LC50	260000	ppmV/	Rat		Gasses,		
inhalation:			4h			Male,		
						Analogous		
						conclusion		
Skin corrosion/irritation:						Not irritant		
Serious eye						Not irritant		
damage/irritation:								
Germ cell mutagenicity:					OECD 473 (In	Negative		
					Vitro Mammalian			
					Chromosome			
					Aberration Test)			
Germ cell mutagenicity:				Salmonella	OECD 471	Negative		
				typhimuri	(Bacterial Reverse			
				um	Mutation Test)			





Page 16 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	mg/l		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	
Aspiration hazard:						No
Symptoms:						breathing difficulties, unconsciousn ess, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	21,641	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	

Isobutane							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by	LC50	658	mg/l/4h	Rat			
inhalation:							
Acute toxicity, by	LC50	260000	ppmV/	Rat		Gasses, Male	
inhalation:			4h				
Serious eye				Rabbit		Not irritant	
damage/irritation:							
Germ cell mutagenicity:				Salmonella	OECD 471	Negative	
				typhimuri	(Bacterial Reverse		
				um	Mutation Test)		



(GB

Page 17 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Aspiration hazard:						No
Symptoms:						unconsciousn
						ess,
						frostbite,
						headaches,
						cramps,
						dizziness,
						nausea and
						vomiting.
Specific target organ	NOAEL	21,394	mg/l	Rat	OECD 422	
toxicity - repeated					(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

11.2. Information on other hazards

4F Flat Roof Foam B1 800 ml										
Art.: 9095754										
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes				
	nt									
Endocrine disrupting						Does not				
properties:						apply to				
						mixtures.				
Other information:						No other				
						relevant				
						information				
						available on				
						adverse				
						effects on				
						health.				

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

4F Flat Roof Foam B1 800 ml										
Art.: 9095754										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to							n.d.a.			
fish:										
12.1. Toxicity to							n.d.a.			
daphnia:										
12.1. Toxicity to							n.d.a.			
algae:										
12.2. Persistence							n.d.a.			
and degradability:										



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Page 18 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

12.3.			n.d.a.
Bioaccumulative			
potential:			
12.4. Mobility in			n.d.a.
soil:			
12.5. Results of			n.d.a.
PBT and vPvB			
assessment			
12.6. Endocrine			Does not
disrupting			apply to
properties:			mixtures.
12.7. Other			No
adverse effects:			information
			available on
			other
			adverse
			effects on
			the
			environment.
Other information:			DOC-
			elimination
			degree(comp
			lexing
			organic
			substance)>=
			80%/28d:
			n.a.





Page 19 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Other information:	With water
	at the
	interface,
	transforms
	slowly with
	formation of
	CO2 into a
	firm,
	insoluble
	reaction
	product with
	a high
	melting
	point
	(polycarbami
	de).
	According
	to
	experience
	available to
	date,
	polycarbami
	de is inert
	and non-
	degradable.

Diphenylmethaned	liisocyanate, i	someres	and hom	ologues			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
12.1. Toxicity to	LC50	96h	>1000	mg/l	Brachydanio	OECD 203	
fish:					rerio	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	21d	>= 10	mg/l	Daphnia	OECD 211	
daphnia:	EL				magna	(Daphnia	
						magna	
						Reproduction	
						Test)	
12.1. Toxicity to	EC50	24h	>1000	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.2. Persistence		28d	0	%	activated	OECD 301 C	Not
and degradability:					sludge	(Ready	biodegradabl
						Biodegradabil	e
						ity - Modified	
						MITI Test (I))	





Page 20 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus caprio	OECD 305 (Bioconcentra tion - Flow- Through Fish Test)	A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.1. Toxicity to algae:	EC50	72h	>1640	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/NO EL	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other information:	BOD	28d	<10	%		OECD 302 C (Inherent Biodegradabil ity - Modified MITI Test (II))	
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

Tris(2-chlorisopropyl)phosphate										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to	LC50	96h	56,2	mg/l	Brachydanio					
fish:					rerio					
12.1. Toxicity to	LC50	96h	98	mg/l	Pimephales					
fish:					promelas					





Page 21 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

12.1. Toxicity to daphnia:	LC50	48h	65- 335	mg/l		
12.1. Toxicity to algae:	NOEC/NO EL	96h	6	mg/l	Selenastrum capricornutum	
12.2. Persistence and degradability:					cupiteoimatum	Not readily biodegradabl e
12.3. Bioaccumulative potential:	BCF		0,8- 4,6		Cyprinus caprio	
12.3. Bioaccumulative potential:	Log Pow		2,59			

Dimethyl ether							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC0	96h	2695	mg/l	Pimephales		
fish:					promelas		
12.1. Toxicity to	LC50	96h	3082	mg/l	Salmo		
fish:					gairdneri		
12.1. Toxicity to	LC50	96h	>4,1	mg/l	Poecilia		
fish:					reticulata		
12.1. Toxicity to	EC50	48h	>4,4	mg/l	Daphnia		
daphnia:					magna		
12.1. Toxicity to	EC50	96h	154,9	mg/l	Chlorella		
algae:					vulgaris		
12.2. Persistence		28d	5	%		OECD 301 D	Not readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Closed	
						Bottle Test)	
12.3.	Log Pow		-0,07				Bioaccumula
Bioaccumulative							tion is
potential:							unlikely
							(LogPow <
							1). 25°C
							(pH 7)
12.4. Mobility in	H (Henry)		518,6	Pa*m3/			No
soil:				mol			adsorption
							in soil.
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC10		>1600	mg/l	Pseudomonas		
bacteria:					putida		





Page 22 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Other information:				Does not
				contain any
				organically
				bound
				halogens
				which can
				contribute to
				the AOX
				value in
				waste
				water.DIN
				EN 1485
Water solubility:	45,60	mg/l		25°C

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3.	Log Pow		2,28				A notable
Bioaccumulative							biological
potential:							accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3.							A notable
Bioaccumulative potential:							biological accumulation potential is
							not to be
							expected
							(LogPow 1-
							3).
12.1. Toxicity to	LC50	96h	27,98	mg/l			
fish:							
12.1. Toxicity to	EC50	96h	7,71	mg/l			
algae:							
12.2. Persistence							Readily
and degradability:							biodegradabl
							e
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance





Page 23 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

08 05 01 waste isocyanates

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General	statements

14 1	UN number or ID number:	1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es):2.114.4. Packing group:-Classification code:5FLQ:1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):
2.1
14.4. Packing group:

EmS: F-D, S-U n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es): 2.1 14.4. Packing group:

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user











Page 24 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII

Diphenylmethanediisocyanate, isomeres and homologues

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others

may also need to be considered according to storage, handling etc.):

,	υ υ	2 /	
Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred to	substances as referred to
		in Article 3(10) for the	in Article 3(10) for the
		application of - Lower-	application of - Upper-
		tier requirements	tier requirements
P3a	11.1	150 (netto)	500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Entry Nr	Dangerous	Notes to Annex I	Qualifying quantity	Qualifying quantity
	substances		(tonnes) for the	(tonnes) for the
			application of -	application of -
			Lower-tier	Upper-tier
			requirements	requirements
18	Liquefied	19	50	200
	flammable gases,			
	Category 1 or 2			
	(including LPG)			
	and natural gas			

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.





Page 25 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 1-16

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance $(EG)\ 1272/2008\ (CLP)$:

Classification in accordance with regulation (EC)	Evaluation method used
No. 1272/2008 (CLP)	
Acute Tox. 4, H332	Classification according to calculation procedure.
STOT RE 2, H373	Classification according to calculation procedure.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Resp. Sens. 1, H334	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Carc. 2, H351	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

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.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H220 Extremely flammable gas.

Acute Tox. — Acute toxicity - inhalation

STOT RE — Specific target organ toxicity - repeated exposure

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. — Skin irritation

Resp. Sens. — Respiratory sensitization

Skin Sens. — Skin sensitization

Carc. — Carcinogenicity

Aerosol — Aerosols



(GB

Page 26 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

Acute Tox. — Acute toxicity - oral

Flam. Gas — Flammable gases - Flammable gas

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU)

2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level DOC Dissolved organic carbon

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community



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Page 27 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 01.11.2021 / 0006

Replacing version dated / version: 01.03.2021 / 0005

Valid from: 01.11.2021 PDF print date: 01.11.2021 4F Flat Roof Foam B1 800 ml

Art.: 9095754

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae,

plants)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPACInternational Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern





Page 28 of 28

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.