SAFETY DATA SHEET

novatio

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

B1 FOAM

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

1.1. Product identifier

Product name	:	B1 FOAM
Registration number REACH	:	Not applicable (mixture)
Product type REACH	:	Mixture

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

1.2.1 Relevant identified uses polyurethane

1.2.2 Uses advised against No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Manufacturer of the product

Novatech International N.V. Industrielaan 5B B-2250 Olen ☎ +32 14 85 97 37 ➡ +32 14 85 97 38 info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) : +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as da	lassified as dangerous according to the criteria of Regulation (EC) No 1272/2008			
Class	Category	Hazard statements		
Aerosol	category 1	H222: Extremely flammable aerosol.		
Aerosol	category 1	H229: Pressurised container: May burst if heated.		
Carc.	category 2	H351: Suspected of causing cancer.		
Resp. Sens.	category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Skin Sens.	category 1	H317: May cause an allergic skin reaction.		
Acute Tox.	category 4	H332: Harmful if inhaled.		
STOT RE	category 2	H373: May cause damage to organs through prolonged or repeated exposure.		
Skin Irrit.	category 2	H315: Causes skin irritation.		
Eye Irrit.	category 2	H319: Causes serious eye irritation.		
STOT SE	category 3	H335: May cause respiratory irritation.		

2.2. Label elements



Signal word	Danger
H-statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H351	Suspected of causing cancer.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 2; 3; 8; 11; 12; 15 Revision number: 0200 Publication date: 2016-12-14 Date of revision: 2024-01-31 878-16239-054-en

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
P-statements	
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.
P280	Wear protective gloves, protective clothing and eye protection/face protection.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
Supplemental information	
	As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard Caution! Substance is absorbed through the skin

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No List No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
polymethylene polyphenyl isocyanate, conc monomer ≥0.1%	9016-87-9	25% ≤C<50%	Carc. 2; H351 Resp. Sens. 1; H334 Skin Sens. 1; H317 Acute Tox. 4; H332 STOT RE 2; H373 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Resp. Sens. 1; H334: C \ge 0.1%, (analogous to Annex VI) Skin Irrit. 2; H315: C \ge 5%, (analogous to Annex VI) Eye Irrit. 2; H319: C \ge 5%, (analogous to Annex VI) STOT SE 3; H335: C \ge 5%, (analogous to Annex VI)	(1)(2)(10)(18) (V)	Constituent	
reaction products of phosphoryl trichloride and 2-methyloxirane 01-2119486772-26	1244733-77-4 807-935-0	10% ≤C<20%	Acute Tox. 4; H302 Aquatic Chronic 3; H412	(1)(10)	Constituent	
dimethyl ether 01-2119472128-37	115-10-6 204-065-8	5%≤C<10%	Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant	
isobutane 01-2119485395-27	75-28-5 200-857-2	5%≤C<10%	Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)(21)	Propellant	
propane D1-2119486944-21	74-98-6 200-827-9	1%≤C<5%	Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant	

(21) 1,3-butadiene <0.1%

(V) Exempted from registration under REACH (Regulation (EC) No 1907/2006, article 2 (9), polymers)

Note: numbers 9xx-xxx-x are provisional list numbers assigned by Echa pending an official EC inventory number

Reason for revision: 2; 3; 8; 11; 12; 15

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation: Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:

Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Runny nose. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible inflammation of the respiratory tract. Risk of lung oedema. Respiratory difficulties.

After skin contact: Tingling/irritation of the skin.

After eye contact:

Arter eye contact: Irritation of the eye tissue. Lacrimation. After ingestion: Not applicable.

4.2.2 Delayed symptoms

No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Water, Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher. Major fire: Quantities of water.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide). Pressurised container: May burst if heated. May polymerize on exposure to temperature rise. On heating: release of toxic/combustible gases/vapours (hydrogen cyanide).

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant risk of physical explosion. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: selfcontained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034). Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Dam up the solid spill. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

Reason for revision: 2; 3; 8; 11; 12; 15

Allow product to solidify and remove it by mechanical means. Carefully collect the spill/leftovers. Clean (treat) contaminated surfaces with acetone. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Meet the legal requirements. Store in a cool area. Keep out of direct sunlight. Keep container in a well-ventilated place. Fireproof storeroom. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, ignition sources, (strong) acids, (strong) bases, amines.

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

EU

Dimethylether	Time-weighted average exposure limit 8 h (Indicative occupational	1000 ppm
	exposure limit value)	
	Time-weighted average exposure limit 8 h (Indicative occupational	1920 mg/m³
	exposure limit value)	

Belgium

DeiBrann		
4,4'-Diisocyanate de diphénylméthane (MDI)	Time-weighted average exposure limit 8 h	0.005 ppm
	Time-weighted average exposure limit 8 h	0.052 mg/m ³
Butane, tous isomères: iso-butane	Short time value	980 ppm
	Short time value	2370 mg/m ³
Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3)	Time-weighted average exposure limit 8 h	1000 ppm
Oxyde de diméthyle	Time-weighted average exposure limit 8 h	
	Time-weighted average exposure limit 8 h	1920 mg/m ³

The Netherlands

Dimethylether	Time-weighted average exposure limit 8 h (Public occupational exposure 495 ppm limit value)
	Time-weighted average exposure limit 8 h (Public occupational exposure 950 mg/m ³ limit value)
	Short time value (Public occupational exposure limit value) 781 ppm
	Short time value (Public occupational exposure limit value) 1500 mg/m ³

France

4,4'-Diisocyanate de diphénylméthane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.01 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m ³
	Short time value (VL: Valeur non réglementaire indicative)	0.02 ppm (1)
	Short time value (VL: Valeur non réglementaire indicative)	0.2 mg/m ³ (1)
Oxyde de diméthyle	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1000 ppm
	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1920 mg/m ³

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Germany

Germany				
4,4'-Methylendiphenyldiisocyanat	Der Arbeitsplatzgrenzwert gilt in der Regel nur für die Monomeren. Zur Beurteilung von Oligomeren oder Polymeren siehe TRGS 430 "Isocyanate"			
	Summe aus Dampf und Aerosolen.			
Dimethylether	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm (1)		
	Time-weighted average exposure limit 8 h (TRGS 900)	1900 mg/m³ (1)		
lsobutan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm (2)		
	Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m³ (2)		
pMDI (als MDI berechnet)	Der Arbeitsplatzgrenzwert gilt in der Regel nur für die Monomeren. Zu oder Polymeren siehe TRGS 430 "Isocyanate"	r Beurteilung von Oligomeren		
Propan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm (2)		
	Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m³ (2)		

(1) UF: 8 (II)

(2) UF: 4 (II)

Austria

Butan (beide Isomeren): n-Butan (R 600) Isobutan (R 600a)	Tagesmittelwert (MAK)	800 ppm
,	Tagesmittelwert (MAK)	1900 mg/m³
	Kurzzeitwert 60(Mow) 3x (MAK)	1600 ppm
	Kurzzeitwert 60(Mow) 3x (MAK)	3800 mg/m ³
Dimethylether	Tagesmittelwert (MAK)	1000 ppm
	Tagesmittelwert (MAK)	1910 mg/m ³
	Kurzzeitwert 60(Mow) 3x (MAK)	2000 ppm
	Kurzzeitwert 60(Mow) 3x (MAK)	3820 mg/m ³
Propan (R 290)	Tagesmittelwert (MAK)	1000 ppm
	Tagesmittelwert (MAK)	1800 mg/m ³
	Kurzzeitwert 60(Mow) 3x (MAK)	2000 ppm
	Kurzzeitwert 60(Mow) 3x (MAK)	3600 mg/m ³

UΚ

UK		
Dimethyl ether	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	766 mg/m³
	Short time value (Workplace exposure limit (EH40/2005))	500 ppm
	Short time value (Workplace exposure limit (EH40/2005))	958 mg/m ³
Isocyanates, all (as -NCO) Except methyl isocyanate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.02 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	0.07 mg/m ³

USA (TLV-ACGIH)

Butane, isomers	Short time value (TLV - Adopted Value)	1000 ppm
	Explosion hazard	
Methylene bisphenyl isocyanate	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.005 ppm
Propane	See Appendix F: Minimal Oxygen Content; Simple asphyxiant, Explosion hazard	

b) National biological limit values

If limit values are applicable and available these will be listed below.

Product name Test Number Isocyanates NIOSH 5521 Isocyanates NIOSH 5522

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers reaction products of phosphoryl trichloride and 2-methyloxirane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	8.2 mg/m³	
	Acute systemic effects inhalation	22.6 mg/m³	
	Long-term systemic effects dermal	2.91 mg/kg bw/day	

DNEL/DMEL - General population

Reason for revision: 2; 3; 8; 11; 12; 15

eaction products of phosphoryl trichloride and 2-methyloxirane										
Effect level (DNEL/DMEL)	l (DNEL/DMEL) Type Value									
DNEL	Long-term systemic effects inhalation	1.45 mg/m ³								
	Acute systemic effects inhalation	5.6 mg/m ³								
	Long-term systemic effects dermal	1.04 mg/kg bw/day								
	Long-term systemic effects oral	0.52 mg/kg bw/day								
	Acute systemic effects oral	2 mg/kg bw/day								

PNEC

reaction products of phosphoryl trichloride and 2-methyloxirane

Compartments	Value	Remark
Fresh water	0.32 mg/l	
Marine water	0.032 mg/l	
Fresh water (intermittent releases)	0.51 mg/l	
STP	19.1 mg/l	
Fresh water sediment	11.5 mg/kg sediment dw	
Marine water sediment	1.15 mg/kg sediment dw	
Soil	0.34 mg/kg soil dw	
Oral	11.6 mg/kg food	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

Mat		Measured breakthrough time	Thickness	Protection index	Remark
	PE (Low Density Poly ylene)	> 10 minutes	0.025 mm	Class 1	

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

Head/neck protection. Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

· · · · · · · · · · · · · · · · · · ·	
Physical form	Aerosol
Colour	Variable in colour, depending on the composition
Odour	Characteristic odour
Odour threshold	No data available in the literature
Melting point	No data available in the literature
Boiling point	No data available in the literature
Flammability	Extremely flammable aerosol.
Explosion limits	No data available in the literature
Flash point	Not applicable (aerosol)
Auto-ignition temperature	No data available in the literature
Decomposition temperature	No data available in the literature
рН	No data available in the literature
Kinematic viscosity	No data available in the literature
Dynamic viscosity	No data available in the literature
Solubility	Water ; insoluble
	Organic solvents ; soluble
Log Kow	Not applicable (mixture)
Vapour pressure	In the pressurized container the vapour pressure exceeds 500 kPa. After foam release, the vapour pressure is very low (not declared)
Absolute density	1170 kg/m³ ; 20 °C
Relative density	1.17 ; 20 °C
Relative vapour density	>1

Reason for revision: 2; 3; 8; 11; 12; 15

Particle size

No data available in the literature

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

May polymerize with many compounds e.g.: (strong) bases and amines. Reacts violently with (some) acids/bases.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

(strong) acids, (strong) bases, amines.

10.6. Hazardous decomposition products

On heating: release of toxic/combustible gases/vapours (hydrogen cyanide). On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

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

11.1.1 Test results

Acute toxicity

<u>B1 FOAM</u>

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate, conc monomer ≥0.1%

Route	of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
							determination	
Oral		LD50		> 10000 mg/kg		Rat	Literature study	
Derma	d.	LD50		> 5000 mg/kg		Rabbit	Literature study	
Inhala	tion (vapours)	LC50		11 mg/l	4 h		Literature study	
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reaction products of phosphoryl trichloride and 2-methyloxirane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	EU Method B.1	632 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw		Rat (male / female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 7 mg/l	4 h	Rat (male / female)	Experimental value	

Conclusion

Harmful if inhaled.

Not classified as acute toxic in contact with skin Not classified as acute toxic if swallowed

Corrosion/irritation

B1 FOAM

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate, conc monomer ≥0.1% Method Doute of our

Route of exposure	Result	Method	Exposure time	Time point	 Value determination	Remark
	Irritating; category 2				Literature study	
	Irritating; category 2				Literature study	
	Irritating; STOT SE cat.3				Literature study	

Reason for revision: 2; 3; 8; 11; 12; 15

Publication date: 2016-12-14 Date of revision: 2024-01-31

reaction products of p	ction products of phosphoryl trichloride and 2-methyloxirane											
Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark					
						determination						
Eye	Not irritating	OECD 405	24 h	24; 48; 72 hours			Single treatment with rinsing					
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours		Experimental value						

Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Respiratory or skin sensitisation

B1 FOAM

No (test)data on the mixture available

Classification is based on the relevant ingredients polymethylene polyphenyl isocyanate, conc monomer ≥0.1%

Route of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
Skin	Sensitizing; category 1					Literature study	
Inhalation	Sensitizing; category 1					Literature study	

Route of exposure Result Method Exposure time Observation time point Species Value determination Remark Dermal (on the ears) Not sensitizing OECD 429 Mouse (female) Experimental value Experimental value

Conclusion

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Specific target organ toxicity

B1 FOAM

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate, conc monomer ≥0.1%

	Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time		Value determination	Remark	
	Inhalation			STOT RE cat.2				Literature study		
rea	reaction products of phosphoryl trichloride and 2-methyloxirane									

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value	Remark
							determination	
Oral (diet)	NOAEL	Subchronic	171 mg/kg	No effect	13 weeks (daily)	Rat (female)	Experimental	
		toxicity test	bw/day				value	
Oral (diet)	Dose level	Subchronic	52 mg/kg	Liver	13 weeks (daily)	Rat (male)	Experimental	
		toxicity test	bw/day	(enlargement			value	
				/affection of				
				the liver)				

Conclusion

May cause damage to organs through prolonged or repeated exposure. Not classified as sub-chronically toxic in contact with skin

Not classified as sub-chronically toxic if swallowed

Mutagenicity (in vitro)

B1 FOAM

No (test)data on the mixture available Judgement is based on the relevant ingredients

reaction products of phosphoryl trichloride and 2-methyloxirane

Result	Method	Test substrate	Effect	Value determination	Remark
Negative without metabolic activation,	OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value	
positive with metabolic activation		censy			
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium and E. coli)		Experimental value	

Mutagenicity (in vivo)

Reason for revision: 2; 3; 8; 11; 12; 15

B1 FOAM

No (test)data on the mixture available

Judgement is based on the relevant ingredients

reaction products of phosphoryl trichloride and 2-methyloxirane

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (stomach			Rat (male)	No effect	Experimental value	Single treatment
tube))						

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

B1 FOAM

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate, conc monomer ≥0.1%

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Unknown			category 2				Literature study	

Conclusion

Suspected of causing cancer.

Reproductive toxicity

B1 FOAM

No (test)data on the mixture available

Judgement is based on the relevant ingredients

reaction products of phosphoryl trichloride and 2-methyloxirane

Category	Parameter	Method	Value	Exposure time	Species		Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	0, 0	23 days (gestation, daily)	Rabbit	Foetus (no effect)	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	0, 0	23 days (gestation, daily)	Rabbit	No effect	Experimental value	
Effects on fertility (Oral (diet))	LOAEL	OECD 416	99 mg/kg bw/day		· · ·	Reproductive performance	Experimental value	

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

B1 FOAM

Judgement is based on the relevant ingredients Not classified for aspiration toxicity

Toxicity other effects

B1 FOAM

No (test)data on the mixture available

Chronic effects from short and long-term exposure

B1 FOAM

Feeling of weakness. Itching. Skin rash/inflammation. May cause spots on the skin. Dry skin. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

B1 FOAM

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

polymethylene polyphenyl isocyanate, conc monomer ≥0.1%

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determination
							water	
Acute toxicity other aquatic organisms	LC50		> 1000 mg/l	96 h				Literature study
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/l		Activated sludge			Literature study

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		56 mg/l	96 h	Danio rerio	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	LC50		131 mg/l	48 h	Daphnia magna	Static system	Fresh water	Nominal concentration
Toxicity algae and other aquatic plants	ErC50	OECD 201	82 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value Nominal concentration
	NOEC	OECD 201	13 mg/l	72 h		Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 202	32 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value GLP

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

polymethylene polyphenyl isocyanate, conc monomer ≥0.1%

В	iodegi	rada	tion	water	
					l

	Method	Value	Duration	Value determination	
	OECD 302C	< 60 %		Experimental value	
rea	ction products of phosphoryl trichloride and 2	-methyloxirane			

reaction products of phosphoryl trichloride and 2-Biodegradation water

Method	Value	Duration	Value determination
EU Method C.4-D	14 %; GLP	28 day(s)	Experimental value

Conclusion

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

B1 FOAM

L	og	Kow	

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

polymethylene polyphenyl isocyanate, conc monomer $\geq 0.1\%$

BCF fishes

	Parameter	Method	Value	Duration	Species		Value determination
	BCF		1		Pisces		Literature study
Lo	og Kow						
	Mathad	Bomark		Value		Tomporaturo	Value determination

	ivietnoa	Remark	value	Temperature	value determination	
		No data available				
<u>rea</u>	ction products of phosphoryl tr	ichloride and 2-methyloxirane				

BCF fishes

	Parameter	Method		Value	Duration	Species		Value determination
	BCF	OECD 305		0.8 - 14; Fresh	6 week(s)	Cyprinus	carpio	Experimental value
Lo	og Kow							
	Method		Remark		Value		Temperature	Value determination
	EU Method A.8				2.7		30 °C	Experimental value

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

reaction products of phosphoryl trichloride and 2-methyloxirane

(log) Koc

Parameter	Method	Value	Value determination
log Koc		3.2	QSAR

Conclusion

Contains component(s) that adsorb(s) into the soil

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

Reason for revision:	2; 3; 8; 11; 12; 15

No evidence of endocrine disrupting properties

12.7. Other adverse effects

B1 FOAM

Greenhouse gases

Contains component(s) included in the list of substances which may contribute to the greenhouse effect (IPCC)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 05 01* (wastes not otherwise specified in 08: waste isocyanates).

16 05 04* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Specific treatment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	aerosols
14.3. Transport hazard class(es)	
Hazard identification number	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).

Rail (RID)

50 rosols
rosols
rosols
Publication date: 2016-12-14
Date of revision: 2024-01-31
)

Rea

Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
	liquids. A package shall not weigh more than 30 kg (gross mass).

Inland waterways (ADN)

14. <u>1</u> . UN number/ID number	
UN number/ID number	1950
14.2. UN proper shipping name	
Proper shipping name	aerosols
14.3. Transport hazard class(es)	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14. <u>5. Environmental hazards</u>	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).

Sea (IMDG/IMSBC)

14.1. UN number	4050
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	aerosols
14.3. Transport hazard class(es)	
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Marine pollutant	-
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	381
Special provisions	63
Special provisions	959
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).
14.7. Maritime transport in bulk according to IMO instruments	
Annex II of MARPOL 73/78	Not applicable
(ICAO-TI/IATA-DGR)	
14. <u>1. UN number/ID number</u>	
UN number/ID number	1950
14.2. UN proper shipping name	
Proper shipping name	aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
Special provisions	A802
Passenger and cargo transport	

Reason for revision: 2; 3; 8; 11; 12; 15

Limited quantities: maximum net quantity per packaging

30 kg G

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture <u>European legislation:</u>

VOC content Directive 2010/75/EU

VOC content	Remark
< 17 %	
< 178 g/l	

Directive 2012/18/EU (Seveso III)

Threshold values under normal circumstances					
	Low tier (tonnes)	Top tier (tonnes)		For this substance or mixture the summation rule has to be applied for:	
P3b FLAMMABLE AEROSOLS	5000 (net)	50000 (net)	None	Flammability	

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation	
 (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. 	 phases, for example in ornamental lamps and ashtrays, tricks and jokes, games for one or more participants, or any article intended to be used as such, even v ornamental aspects, Articles not complying with paragraph 1 shall not be placed on the market. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: can be used as fuel in decorative oil lamps for supply to the general public, and, present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopt by the European Committee for Standardisation (CEN). Without prejudice to the implementation of other Community provisions relating to th classification, packaging and labelling of dangerous substances and mixtures, suppliers at ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legi and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sign of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legi and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are legi and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are legi and indelibly marked by 1 Decembe
Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'- Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate	 Shall not be placed on the market after 27 December 2010, as a constituent of mixture concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging (a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC; (b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substance and mixtures: — Persons already sensitised to diisocyanates may develop allergic reactions when usin this product. — Persons suffering from asthma, eczema or skin problems should avoid contact, includ dermal contact, with this product. — This product should not be used under conditions of poor ventilation unless a protect mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used 2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.
Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length	 Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless: (a) the concentration of diisocyanates individually and in combination is less than 0,1 % weight, or (b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s). 2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless: (a) the concentration of diisocyanates individually and in combination is less than 0,1 % weight, or
	 to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate Diisocyanates, 0 = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of

BIFOAM				
	 (b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information." As from 24 August 2023 adequate training is required before industrial or professional use? 3. For the purpose of this entry "industrial and professional use(s) or supervising these tasks. 4. The training referred to in noint (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to discoyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum: (a) the training elements in points (a) of paragraph 5 for all industrial and professional use(s). (b) the training elements in points (a) and (b) of paragraph 5 for the following uses: handling open mixtures at ambient temperature (including foam tunnels); spraying in a ventilated boott; application by orols; application by truss; application by druss; application by druss; mandtements an points (a). (b) and (c) of paragraph 5 for the following uses: handling incompletely cured atricles (e.g. freshly cured, still warm); down any other uses with similar exposure through the dermal and/or inhalation route; (c) the training elements in points (a). (b) and (c) of paragraph 5 for the following uses: handling incompletely cured atricles (e.g. freshly cured, still warm); open handling of warm or hot formulations (> 4 °C (2; spraying in open air, with limited or only natural ventilation (includes large indu			
	 handling incompletely cured articles (e.g. freshly cured, still warm); foundry applications; 			
	 open handling of warm or hot formulations (> 45 °C); spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers); and any other uses with similar exposure through the dermal and/or inhalation route. 			
	 (a) general training, including on-line training, on: — chemistry of diisocyanates; toxicity hazards (including acute toxicity); 			
	 occupational exposure limit values; how sensitisation can develop; 			
	 viscosity, temperature, and molecular weight of diisocyanates; personal hygiene; 			
	 and its limitations; — risk of dermal contact and inhalation exposure; — risk in relation to application process used; 			
	 ventilation; cleaning, leakages, maintenance; 			
	 protection of bystanders; identification of critical handling stages; specific national code systems (if applicable); 			
	 management of change; evaluation of existing safety instructions; risk in relation to application process used; certification or documented proof that training has been successfully completed 			
	 (c) advanced training, including on-line training, on: — any additional certification needed for the specific uses covered; — spraying outside a spraying booth; — open handling of hot or warm formulations (> 45 °C); 			
	 certification or documented proof that training has been successfully completed The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long 			
	as the minimum requirements set out in paragraphs 4 and 5 are met. 7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including			
	composition, packaging, and design. 8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years. 9. Member States shall include in their reports pursuant to Article 117(1) the following			
	information: (a) any established training requirements and other risk management measures related			

Reason for revision: 2; 3; 8; 11; 12; 15

Publication date: 2016-12-14 Date of revision: 2024-01-31

		B1 FO	AM	
		() r () () 1	o the industrial and professional uses of diisocyanates foreseen in national law; b) the number of cases of reported and recognised occupational asthma and oc espiratory and dermal diseases in relation to diisocyanates; c) national exposure limits for diisocyanates, if there are any; l) information about enforcement activities related to this restriction. 0. This restriction shall apply without prejudice to other Union legislation on the f safety and health of workers at the workplace.	cupationa
	i <mark>onal legislation Belgium</mark> B1 FOAM			
	No data available			
	i <mark>onal legislation The Netherland</mark> B1 FOAM	<u>5</u>		
	Waterbezwaarlijkheid	B (3); Algemene Beoordelingsmethodiek (ABM)	
Nati	onal legislation France			
B	B <u>1 FOAM</u> No data available			
r	oolymethylene polyphenyl isocya	nate, conc monomer ≥0.1%		
-	Catégorie cancérogène	4,4'-Diisocyanate de diphénylméthane; C		
Nati	ional legislation Germany			
B	B1 FOAM			
	Lagerklasse (TRGS510)	2B: Aerosolpackungen und Feuerzeuge	mit wassargefährdanden Stoffen (Aus)/) 18 April 2017	
p	WGK polymethylene polyphenyl isocya		mit wassergefährdenden Stoffen (AwSV) - 18. April 2017	
-	TA-Luft	5.2.5/1		
	TRGS900 - Risiko der		o der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenz	zwertes
	Fruchtschädigung	und des biologischen Grenzwertes nicht b	efurchtet zu werden uchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes (und des
		biologischen Grenzwertes nicht befürchte		unu ues
	Sensibilisierende Stoffe	4,4'-Methylendiphenyldiisocyanat; Sh; Ha		
	TRGS905 - Krebserzeugend	Techn. ("Polymeres") MDI (pMDI) (in Forr		
	TRGS905 - Erbgutverändernd TRGS905 -	Techn. ("Polymeres") MDI (pMDI) (in Forr Techn. ("Polymeres") MDI (pMDI) (in Forr		
	Fruchtbarkeitsgefährdend			
	TRGS905 - Fruchtschädigend	Techn. ("Polymeres") MDI (pMDI) (in Forr	atembarer Aerosole, A-Fraktion): -	
	Hautresorptive Stoffe	4,4'-Methylendiphenyldiisocyanat; H; Hau	tresorptiv	
r	Hautresorptive Stoffe	pMDI (als MDI berechnet); H; Hautresorp	tresorptiv	
-	reaction products of phosphoryl to TA-Luft	pMDI (als MDI berechnet); H; Hautresorp	tresorptiv	
<u>Natio</u> B	reaction products of phosphoryl reaction products of phosphoryl reaction and the second state of the secon	pMDI (als MDI berechnet); H; Hautresorp richloride and 2-methyloxirane 5.2.5	tresorptiv	
<u>Natio</u> B Natio B	reaction products of phosphoryl r TA-Luft <u>51 FOAM</u> No data available	pMDI (als MDI berechnet); H; Hautresorp trichloride and 2-methyloxirane 5.2.5	tresorptiv	
<u>Natio</u> B Natio B	reaction products of phosphoryl reaction products of phosphoryl reaction and the second state of the secon	pMDI (als MDI berechnet); H; Hautresorp richloride and 2-methyloxirane 5.2.5 nate, conc monomer ≥0.1% Isocyanates, all (as -NCO) Except methyl i	tresorptiv iv socyanate; Sen	
<u>Natie</u> B <u>Natie</u> P	reaction products of phosphoryl reaction products of phosphoryl reaction for the second secon	pMDI (als MDI berechnet); H; Hautresorp trichloride and 2-methyloxirane 5.2.5	tresorptiv iv socyanate; Sen	
<u>Natie</u> <u>B</u> <u>Natie</u> <u>P</u> <u>Othe</u>	reaction products of phosphoryl i TA-Luft ional legislation Austria B1 FOAM No data available ional legislation United Kingdom B1 FOAM No data available polymethylene polyphenyl isocya Skin Sensitisation Respiratory sensitisation er relevant data B1 FOAM	pMDI (als MDI berechnet); H; Hautresorp richloride and 2-methyloxirane 5.2.5 nate, conc monomer ≥0.1% Isocyanates, all (as -NCO) Except methyl i	tresorptiv iv socyanate; Sen	
<u>Natie</u> <u>B</u> <u>Natie</u> <u>B</u> <u>Othe</u>	reaction products of phosphoryl i TA-Luft ional legislation Austria B1 FOAM No data available ional legislation United Kingdom B1 FOAM No data available polymethylene polyphenyl isocya Skin Sensitisation Respiratory sensitisation er relevant data B1 FOAM No data available	pMDI (als MDI berechnet); H; Hautresorp trichloride and 2-methyloxirane 5.2.5 nate, conc monomer ≥0.1% Isocyanates, all (as -NCO) Except methyl i Isocyanates, all (as -NCO) Except methyl i	tresorptiv iv socyanate; Sen	
<u>Natie</u> <u>B</u> <u>Natie</u> <u>B</u> <u>Othe</u>	reaction products of phosphoryl i TA-Luft ional legislation Austria B1 FOAM No data available ional legislation United Kingdom B1 FOAM No data available polymethylene polyphenyl isocya Skin Sensitisation Respiratory sensitisation er relevant data B1 FOAM	pMDI (als MDI berechnet); H; Hautresorp trichloride and 2-methyloxirane 5.2.5 nate, conc monomer ≥0.1% Isocyanates, all (as -NCO) Except methyl i Isocyanates, all (as -NCO) Except methyl i	tresorptiv iv socyanate; Sen	
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H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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

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

H412 Harmful to aquatic life with long lasting effects.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BEI	Biological Exposure Indices
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC10	Effect Concentration 10 %
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
GLP	Good Laboratory Practice
LC0	Lethal Concentration 0 %
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
LOAEC/LOAEL	Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level
NOAEC/NOAEL	No Observed Adverse Effect Concentration/No Observed Adverse Effect Level
NOEC/NOEL	No Observed Effect Concentration/No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

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Reason for revision: 2; 3; 8; 11; 12; 15