

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010



FOAM7

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

1.1 Product identifier:

Product name : FOAM7
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

Detergent according to Regulation (EC) No 648/2004
Degreasing agent

1.2.2 Uses advised against

No uses advised against

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

Novatech International
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@tec7.be

Manufacturer of the product

Novatech International
Industrielaan 5B
B-2250 Olen
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☎ +32 14 85 97 38
info@tec7.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:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified 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.

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC
F+; R12 - Extremely flammable.

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)



Signal word : Danger

H-statements : H222 : Extremely flammable aerosol.

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H229

Pressurised container: May burst if heated.

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.

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

2.3 Other hazards:

CLP

May be ignited by sparks

Gas/vapour spreads at floor level: ignition hazard

Aerosol may explode under the effect of heat

Slightly irritant to eyes

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
2-butoxyethanol 01-2119475108-36	111-76-2 203-905-0	C≤5 %	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	(1)(2)(10)	Constituent
propan-2-ol 01-2119457558-25	67-63-0 200-661-7	0.1% <C<1%	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
ammonia 01-2119488876-14	1336-21-6 215-647-6	C≤0.5 %	C; R34 N; R50	Skin Corr. 1B; H314 STOT SE 3; H335 Aquatic Acute 1; H400	(1)(2)(8)(10)	Constituent
alcohols, C12-15, ethoxylated	68131-39-5 500-195-7	C≤0.1 %	Xn; R22 Xi; R41 N; R50	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400	(1)	Constituent
butane 01-2119474691-32	106-97-8 203-448-7	5% <C<15%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
propane 01-2119486944-21	74-98-6 200-827-9	C<5 %	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

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EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Headache. Nausea. Disturbances of consciousness.

After skin contact:

No effects known.

After eye contact:

Slight irritation.

After ingestion:

Gastrointestinal complaints. Diarrhoea. Headache. Vomiting. Disturbances of consciousness.

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:

Water spray. Polyvalent foam. BC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

Upon combustion: CO and CO₂ are formed.

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: persistent risk of physical explosion.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

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.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Dam up the liquid spill.

6.3 Methods and material for containment and cleaning up:

Liquid spill: dilute with water. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 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 normal hygiene standards. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Protect against frost. Keep out of direct sunlight. Keep container in a well-ventilated place. Fireproof storeroom. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

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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.

The Netherlands

2-Butoxyethanol	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	20 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	100 mg/m ³
	Short time value (Public occupational exposure limit value)	50 ppm
	Short time value (Public occupational exposure limit value)	246 mg/m ³
2-Propanol	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	260 ppm
	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	650 mg/m ³
Ammoniak	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	20 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	14 mg/m ³
	Short time value (Public occupational exposure limit value)	51 ppm
	Short time value (Public occupational exposure limit value)	36 mg/m ³
n-Butaan	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	592 ppm
	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	1430 mg/m ³

EU

2-Butoxyethanol	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	20 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	98 mg/m ³
	Short time value (Indicative occupational exposure limit value)	50 ppm
	Short time value (Indicative occupational exposure limit value)	246 mg/m ³
Ammonia, anhydrous	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	20 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	14 mg/m ³
	Short time value (Indicative occupational exposure limit value)	50 ppm
	Short time value (Indicative occupational exposure limit value)	36 mg/m ³

Belgium

2-Butoxyéthanol	Time-weighted average exposure limit 8 h	20 ppm
	Time-weighted average exposure limit 8 h	98 mg/m ³
	Short time value	50 ppm
	Short time value	246 mg/m ³
Alcool isopropylique	Time-weighted average exposure limit 8 h	200 ppm
	Time-weighted average exposure limit 8 h	500 mg/m ³
	Short time value	400 ppm
	Short time value	1000 mg/m ³
Ammoniac	Time-weighted average exposure limit 8 h	20 ppm
	Time-weighted average exposure limit 8 h	14 mg/m ³
	Short time value	50 ppm
	Short time value	36 mg/m ³
Hydrocarbures aliphatiques sous forme gazeuse : (Alcanes C1-C4)	Time-weighted average exposure limit 8 h	1000 ppm

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USA (TLV-ACGIH)

2-Butoxyethanol (EGBE)	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	20 ppm
2-propanol	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	200 ppm
	Short time value (TLV - Adopted Value)	400 ppm
Ammonia	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	25 ppm
	Short time value (TLV - Adopted Value)	35 ppm
Butane, all isomers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1000 ppm

Germany

2-Butoxyethanol	Time-weighted average exposure limit 8 h (TRGS 900)	10 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	49 mg/m ³
Ammoniak	Time-weighted average exposure limit 8 h (TRGS 900)	20 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	14 mg/m ³
Butan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m ³
Propan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m ³
Propan-2-ol	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	500 mg/m ³

France

2-Butoxyéthanol	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	10 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	49 mg/m ³
	Short time value (VRC: Valeur réglementaire contraignante)	50 ppm
	Short time value (VRC: Valeur réglementaire contraignante)	246 mg/m ³
Alcool isopropylique	Short time value (VL: Valeur non réglementaire indicative)	400 ppm
	Short time value (VL: Valeur non réglementaire indicative)	980 mg/m ³
Ammoniac anhydre	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	10 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	7 mg/m ³
	Short time value (VRC: Valeur réglementaire contraignante)	20 ppm
	Short time value (VRC: Valeur réglementaire contraignante)	14 mg/m ³
n-Butane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	800 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	1900 mg/m ³

UK

2-Butoxyethanol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	25 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	123 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	50 ppm
	Short time value (Workplace exposure limit (EH40/2005))	246 mg/m ³
Ammonia, anhydrous	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	25 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	18 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	35 ppm
	Short time value (Workplace exposure limit (EH40/2005))	25 mg/m ³
Butane	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	600 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1450 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	750 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1810 mg/m ³
Propan-2-ol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm

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Propan-2-ol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	999 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	500 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1250 mg/m ³

b) National biological limit values

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

8.1.2 Sampling methods

If applicable and available it will be listed below.

2-Butoxyethanol (Alcohols IV)	NIOSH	1403
2-Butoxyethanol (Butyl Cellosolve solvent)	OSHA	83
Ammonia (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
Ammonia	NIOSH	6015
Ammonia	NIOSH	6015REV
Ammonia	NIOSH	6016
Ammonia	NON	41
Ammonia	OSHA	ID188
Butoxyacetic acid	NIOSH	8316
Butyl cellosolve (Volatile Organic compounds)	NIOSH	2549
Butyl Cellosolve	OSHA	83
Isopropanol (Volatile Organic compounds)	NIOSH	2549
Isopropyl Alcohol (Alcohols I)	NIOSH	1400
Isopropyl Alcohol	OSHA	109

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 DNEL/PNEC values

DNEL - Workers

2-butoxyethanol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects dermal	89 mg/kg bw/day	
	Acute systemic effects inhalation	633 mg/m ³	
	Acute local effects inhalation	246 mg/m ³	
	Long-term systemic effects dermal	75 mg/kg bw/day	
	Long-term systemic effects inhalation	98 mg/m ³	

propan-2-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects dermal	888 mg/kg bw/day	
	Long-term systemic effects inhalation	500 mg/m ³	

ammonia

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	47.6 mg/m ³	
	Acute systemic effects inhalation	47.6 mg/m ³	
	Long-term local effects inhalation	14 mg/m ³	
	Acute local effects inhalation	36 mg/m ³	
	Long-term systemic effects dermal	6.8 mg/kg bw/day	
	Acute systemic effects dermal	6.8 mg/kg bw/day	

alcohols, C12-15, ethoxylated

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	294 mg/m ³	
	Long-term systemic effects dermal	2080 mg/kg bw/day	

DNEL - General population

2-butoxyethanol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects dermal	44.5 mg/kg bw/day	
	Acute systemic effects inhalation	426 mg/m ³	
	Acute systemic effects oral	13.4 mg/kg bw/day	
	Acute local effects inhalation	123 mg/m ³	
	Long-term systemic effects dermal	38 mg/kg bw/day	
	Long-term systemic effects inhalation	49 mg/m ³	
	Long-term systemic effects oral	3.2 mg/kg bw/day	

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Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects dermal	319 mg/kg bw/day	
	Long-term systemic effects inhalation	89 mg/m ³	
	Long-term systemic effects oral	26 mg/kg bw/day	

ammonia

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	23.8 mg/m ³	
	Acute systemic effects inhalation	23.8 mg/m ³	
	Long-term local effects inhalation	2.8 mg/m ³	
	Acute local effects inhalation	7.2 mg/m ³	
	Long-term systemic effects dermal	68 mg/kg bw/day	
	Acute systemic effects dermal	68 mg/kg bw/day	
	Long-term systemic effects oral	6.8 mg/kg bw/day	
	Acute systemic effects oral	6.8 mg/kg bw/day	

alcohols, C12-15, ethoxylated

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute local effects inhalation	87 mg/m ³	
	Long-term systemic effects dermal	1250 mg/kg bw/day	
	Long-term systemic effects oral	25 mg/kg bw/day	

PNEC

2-butoxyethanol

Compartments	Value	Remark
Fresh water	8.8 mg/l	
Marine water	0.88 mg/l	
Fresh water sediment	8.14 mg/kg sediment dw	
Soil	2.8 mg/kg soil dw	
STP	463 mg/l	

propan-2-ol

Compartments	Value	Remark
Fresh water	140.9 mg/l	
Marine water	140.9 mg/l	
Aqua (intermittent releases)	140.9 mg/l	
STP	2251 mg/l	
Fresh water sediment	552 mg/kg sediment dw	
Marine water sediment	552 mg/kg sediment dw	
Soil	28 mg/kg soil dw	
Oral	160 mg/kg food	

ammonia

Compartments	Value	Remark
Fresh water	0.0011 mg/l	
Marine water	0.0011 mg/l	
Aqua (intermittent releases)	0.0068 mg/l	

alcohols, C12-15, ethoxylated

Compartments	Value	Remark
Fresh water	0.0446 mg/l	
Marine water	0.0446 mg/l	
Aqua (intermittent releases)	0.0446 mg/l	
STP	10 g/l	
Fresh water sediment	41.3 mg/kg sediment dw	
Marine water sediment	41.3 mg/kg sediment dw	
Soil	1 mg/kg soil dw	

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

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Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

Gloves.

c) Eye protection:

Protective goggles.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Aerosol
Odour	Characteristic odour
Odour threshold	No data available
Colour	No data available on colour
Particle size	No data available
Explosion limits	1.3 - 12 vol %
Flammability	Extremely flammable aerosol.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	0 °C
Boiling point	140 °C
Flash point	No data available
Evaporation rate	No data available
Relative vapour density	> 1
Vapour pressure	No data available
Solubility	water ; soluble
Relative density	0.99
Decomposition temperature	No data available
Auto-ignition temperature	230 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	10.4

9.2 Other information:

Absolute density	992 kg/m ³
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SECTION 10: Stability and reactivity

10.1 Reactivity:

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

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

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products:

Upon combustion: CO and CO₂ are formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

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11.1.1 Test results

Acute toxicity

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No (test) data on the mixture available

2-butoxyethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Dermal	LD50	OECD 402	>2000 mg/kg bw		Rat (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	2.2 mg/l	4 h	Rat (female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	450 ppm	4 h	Rat (female)	Experimental value	

propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	5840 mg/kg bw		Rat	Experimental value	
Dermal	LD50	Equivalent to OECD 402	16.4 ml/kg bw	24 h	Rabbit	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	>10000 ppm	6 h	Rat (male/female)	Experimental value	

ammonia

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	350 mg/kg bw		Rat (male)	Experimental value	Aqueous solution
Dermal						Data waiving	
Inhalation	LC50		28130 mg/m ³ air	10 minutes	Rat (male/female)	Experimental value	
Inhalation	LC50		19960 mg/m ³ air	20 minutes	Rat (male/female)	Experimental value	
Inhalation	LC50		14170 mg/m ³ air	40 minutes	Rat (male/female)	Experimental value	
Inhalation	LC50		9850 mg/m ³ air	60 minutes	Rat (male)	Experimental value	
Inhalation	LC50		13770 mg/m ³ air	60 minutes	Rat (female)	Experimental value	

alcohols, C12-15, ethoxylated

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	>5000 mg/kg bw		Rat (male/female)	Experimental value	
Skin	LD50	Equivalent to OECD 402	>2000 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50	Equivalent to OECD 403	>1.6 mg/l air	4 h	Rat (male/female)	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

FOAM7

No (test) data on the mixture available

2-butoxyethanol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
Skin	Irritating	OECD 404		24; 48; 72 hours	Rabbit	Experimental value	

propan-2-ol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Highly irritating	OECD 405			Rabbit	Experimental value	Single treatment
Skin	Not irritating		4 h		Human	Experimental value	
Skin	Not irritating		4 h		Rabbit	Experimental value	

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Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye						Data waiving	
Skin	Corrosive	Equivalent to OECD 404	4 h		Rabbit	Experimental value	Aqueous solution
Inhalation (gases)	Irritating				Human	Experimental value	Test data of the pure substance

alcohols, C12-15, ethoxylated

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Respiratory or skin sensitisation

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No (test)data on the mixture available

2-butoxyethanol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (male/female)	Experimental value	

propan-2-ol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406	3 weeks (6h/day, 1 day/week)	24; 48 hours	Guinea pig (male/female)	Experimental value	

ammonia

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin						Data waiving	
Inhalation						Data waiving	

alcohols, C12-15, ethoxylated

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (male/female)	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

FOAM7

No (test)data on the mixture available

2-butoxyethanol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (drinking water)	NOAEL	Equivalent to OECD 408	<69 mg/kg bw/day			90 days (continuous)	Rat (male)	Experimental value
Dermal	NOAEL	Equivalent to OECD 411	150 mg/kg bw/day		No effect	90 day(s)	Rabbit (male/female)	Experimental value
Inhalation	LOAEC	OECD 453	152 mg/m ³	Blood	Histology	102 weeks (daily, 5 days/week)	Rat (male/female)	Experimental value

FOAM7

propan-2-ol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Inhalation (vapours)	NOAEC	OECD 451	5000 ppm	General	No effect	104 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	Dose level	OECD 403	5000 ppm	Central nervous system	Drowsiness, dizziness	6 h	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEL	OECD 413	5000 ppm			13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

ammonia

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 422	250 mg/kg bw/day	General	No effect	35 day(s)	Rat (male/female)	Read-across
Oral (stomach tube)	LOAEL	OECD 422	750 mg/kg bw/day	General	Overall effects	35 day(s)	Rat (male/female)	Read-across
Oral (diet)	NOAEL	Equivalent to OECD 408	886 mg/kg bw/day		No effect	90 day(s)	Rat (male)	Read-across
Oral (diet)	NOAEL	Equivalent to OECD 408	1975 mg/kg bw/day		No effect	90 day(s)	Rat (female)	Read-across
Oral	NOAEL	Equivalent to OECD 452	256 mg/kg bw/day		No effect	52 weeks (daily)	Rat (male)	Read-across
Oral	NOAEL	Equivalent to OECD 452	284 mg/kg bw/day		No effect	52 weeks (daily)	Rat (female)	Read-across
Dermal								Data waiving
Inhalation	NOEL		61 ppm		No effect	5 weeks (daily)	Pig	Experimental value
Inhalation	LOEL		103 ppm	General	Increased salivation	5 weeks (daily)	Pig	Experimental value
Inhalation (gases)	LOEL	Subchronic toxicity test	119 mg/m ³ air	General	Histopathology	18 weeks (6h/day, 5 days/week)	Guinea pig (male)	Weight of evidence

alcohols, C12-15, ethoxylated

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	NOAEL	Equivalent to OECD 408	>500 mg/kg bw/day		No effect	90 day(s)	Rat (male/female)	Read-across

Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

FOAM7

No (test) data on the mixture available

2-butoxyethanol

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value
Negative	Equivalent to OECD 476	Hamster ovary		Experimental value

propan-2-ol

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value

ammonia

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Escherichia coli	No effect	Experimental value

Reason for revision: 3.2

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alcohols, C12-15, ethoxylated

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative	OECD 473	Chinese hamster ovary (CHO)	No effect	Read-across
Negative	OECD 476	Chinese hamster ovary (CHO)	No effect	Read-across

Mutagenicity (in vivo)

FOAM7

No (test)data on the mixture available

2-butoxyethanol

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male)		Experimental value

propan-2-ol

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male/female)		Experimental value

ammonia

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male)	Bone marrow	Read-across

alcohols, C12-15, ethoxylated

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475		Rat (male/female)	Bone marrow	Read-across
Negative	Equivalent to OECD 474		Mouse (male/female)	Blood	Read-across

Carcinogenicity

FOAM7

No (test)data on the mixture available

2-butoxyethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation	NOAEC	Equivalent to OECD 451	0 ppm	2 year(s)	Rat (male/female)	Experimental value		Neoplastic effects
Inhalation	NOAEC	Equivalent to OECD 451	125 ppm	2 year(s)	Mouse (male/female)	Experimental value		Neoplastic effects

propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (vapours)	NOEL	Equivalent to OECD 451	5000 ppm	104 weeks (6h/day, 5 days/week)	Mouse (male/female)	Experimental value		No carcinogenic effect

ammonia

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Oral	NOAEL	Equivalent to OECD 453	3 %	104 week(s)	Rat (male/female)	Read-across		No carcinogenic effect

Reproductive toxicity

FOAM7

No (test)data on the mixture available

2-butoxyethanol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 414	100 mg/kg bw/day	5 day(s)	Rat	Weight changes		Experimental value
	NOAEC	Equivalent to OECD 414	100 ppm	12 day(s)	Rabbit			Experimental value
Effects on fertility	NOAEL (P/F1/F2)	Other	720 mg/kg bw/day	14 weeks (daily)	Mouse (male/female)	No effect		Experimental value

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propan-2-ol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	596 mg/kg bw/day	1 month(s)	Rat	No effect	Foetus	Experimental value
						No effect	Foetus	
						No effect	Thymus	
Maternal toxicity	NOAEL	Equivalent to OECD 414	596 mg/kg bw/day	1 month(s)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL	Equivalent to OECD 415	853 mg/kg bw/day	21-70 day(s)	Rat (male/female)	No effect		Experimental value

ammonia

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	100 mg/kg bw/day	23 day(s)	Rabbit	No effect		Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	1 mg/kg bw/day	23 day(s)	Rabbit	No effect		Read-across
Effects on fertility	NOAEL (P)	OECD 422	1500 mg/kg bw/day	35 day(s)	Rat (male/female)	No effect		Read-across
	LOAEL (P)	OECD 422	>1500 mg/kg bw/day	35 day(s)	Rat (male/female)	Reproductive performance		Read-across

alcohols, C12-15, ethoxylated

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 416	>=250 mg/kg bw/day		Rat (male/female)	No effect	Skeleton	Read-across
Maternal toxicity	NOAEL	Other	100 mg/kg bw/day		Rat (female)	No effect		Read-across
Effects on fertility	NOAEL	Equivalent to OECD 416	>=250 mg/kg bw/day	17 weeks (3 times/week)	Rat (male/female)	No effect		Read-across

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

FOAM7

No (test)data on the mixture available

Chronic effects from short and long-term exposure

FOAM7

No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

FOAM7

No (test)data on the mixture available

FOAM7

2-butoxyethanol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	1474 ppm	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50	OECD 202	1550 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	OECD 201	911 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value
	NOEC	OECD 201	88 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value
Long-term toxicity fish	NOEC	Equivalent to OECD 204	>100 mg/l	21 day(s)	Danio rerio	Semi-static system	Fresh water	Experimental value
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	100 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value
Toxicity aquatic micro-organisms	Toxicity threshold	Other	463 mg/l	48 h		Static system	Fresh water	Experimental value

propan-2-ol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	9640 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Lethal
Acute toxicity invertebrates	EC50	Other	13299 mg/l	48 h	Daphnia magna			Experimental value
	LC50	Equivalent to OECD 202	> 10000 mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	EC50	UBA	> 1000 mg/l	72 h	Scenedesmus subspicatus			Experimental value; Growth rate
Long-term toxicity aquatic invertebrates	EC0		141 mg/l	384 h	Daphnia magna			
Toxicity aquatic micro-organisms	EC50	ISO 8192	41676 mg/l	30 minutes	Bacteria			Experimental value; Activated sludge

ammonia

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Other	0.6-1.1 mg/l	96 h	Oncorhynchus mykiss	Flow-through system	Fresh water	Experimental value
Acute toxicity invertebrates	LC50	ASTM E729-80	101 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	Other	2700 mg/l	18 day(s)	Chlorella vulgaris	Static system	Fresh water	Read-across
Long-term toxicity fish	NOEC	OECD 215	< 48 µg/l	31 day(s)	Ictalurus punctatus	Flow-through system	Fresh water	Weight of evidence
Long-term toxicity aquatic invertebrates	LOEC	Other	1.3 mg/l	21 day(s)	Daphnia magna	Flow-through system	Fresh water	Read-across

FOAM7

alcohols, C12-15, ethoxylated

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		1.3-1.7 mg/l	96 h	Oncorhynchus mykiss		Fresh water	Experimental value; Lethal
	LC50	OECD 203	>2 mg/l	96 h	Brachydanio rerio	Static system	Fresh water	Read-across; Lethal
Acute toxicity invertebrates	EC50		0.14 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	EC50		0.75 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	NOEC		>0.33 mg/l	10 day(s)	Lepomis macrochirus	Flow-through system	Fresh water	Experimental value; Lethal
Long-term toxicity aquatic invertebrates	EC20		0.514 mg/l	21 day(s)			Fresh water	QSAR; Reproduction
	NOEC	ASTM	0.77 mg/l	21 day(s)	Daphnia magna	Flow-through system	Fresh water	Read-across; Reproduction
Toxicity aquatic micro-organisms	EC50	DIN 38412-8	>10 mg/l	16.9 h	Pseudomonas putida	Static system	Fresh water	Read-across; Growth

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	LC50	OECD 207	>1000 mg/kg soil dw	14 day(s)	Eisenia foetida	Read-across
Toxicity terrestrial plants	NOEC	OECD 208	100 mg/kg soil dw	19 day(s)	Triticum aestivum	Read-across
	NOEC	OECD 208	100 mg/kg soil dw	19 day(s)	Brassica alba	Read-across
	NOEC	OECD 208	100 mg/kg soil dw	19 day(s)	Lepidium sativum	Read-across

Judgement is based on the relevant ingredients of the mixture

Conclusion

Not classified as dangerous for the environment according to the criteria of Directive 1999/45/EC

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

12.2 Persistence and degradability:

2-butoxyethanol

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	90.4 %	28 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
Other	26 h	$6 \times 10^{-12} \text{ cm}^3/\text{molecule.s}$	Experimental value
	>0.4/<0.8 day(s)	$6 \times 10^{-12} \text{ cm}^3/\text{molecule.s}$	Experimental value

propan-2-ol

Biodegradation water

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	95 %	21 day(s)	Experimental value

alcohols, C12-15, ethoxylated

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	72 %; Carbon dioxide	28 day(s)	Experimental value

Conclusion

The surfactant(s) is/are biodegradable

12.3 Bioaccumulative potential:

FOAM7

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

2-butoxyethanol

Log Kow

Method	Remark	Value	Temperature	Value determination
		0.81	20 °C	Test data

FOAM7

propan-2-ol

Log Kow

Method	Remark	Value	Temperature	Value determination
Other		0.05	25 °C	Weight of evidence approach

ammonia

Log Kow

Method	Remark	Value	Temperature	Value determination
		0.23	25 °C	Estimated value

alcohols, C12-15, ethoxylated

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		12.7-237	24 h	Pimephales promelas	Read-across

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		6.65		Experimental value

Conclusion

Does not contain bioaccumulative component(s)

12.4 Mobility in soil:

2-butoxyethanol

Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
0.041 atm m ³ /mol	Other	20 °C		Experimental value

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	0.31 %	0 %	0.01 %	0.59 %	99.09 %	QSAR
Mackay level III	1.01 %	0 %	0.37 %	51.9 %	46.8 %	QSAR

alcohols, C12-15, ethoxylated

(log) Koc

Parameter	Method	Value	Value determination
log Koc		4.2	QSAR
Koc		15900	QSAR

Conclusion

Contains component(s) that adsorb(s) into 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 Other adverse effects:

FOAM7

Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)

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

2-butoxyethanol

Ground water

Ground water pollutant

propan-2-ol

Ground water

Ground water pollutant

ammonia

Ground water

Ground water pollutant

SECTION 13: Disposal considerations

Reason for revision: 3.2

Publication date: 2000-09-16

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Revision number: 1001

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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

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 29* (separately collected fractions (except 15 01): detergents containing dangerous substances). Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Specific treatment. 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 the sewer. Contains a component for which a prohibition exists against discharge into surface water.

13.1.3 Packaging/Container

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)

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	23
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)

Inland waterways (ADN)

Reason for revision: 3.2

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Product number: 32180

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14.1 UN number:

UN number	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols
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14.3 Transport hazard class(es):

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)

Sea (IMDG/IMSBC)

14.1 UN number:

UN number	1950
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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	63
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Annex II of MARPOL 73/78	Not applicable
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Air (ICAO-TI/IATA-DGR)

14.1 UN number:

UN number	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols, flammable
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14.3 Transport hazard class(es):

Class	2.1
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14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	A145
Special provisions	A167
Special provisions	A802
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	30 kg G

Reason for revision: 3.2

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Date of revision: 2014-12-09

Revision number: 1001

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SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
14.6 %	
138.643 g/l	

Ingredients according to Regulation (EC) No 648/2004 and amendments

5-15% aliphatic hydrocarbons, perfumes

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.

Reference legislation

See column 1: 3.

See column 1: 40.

National legislation The Netherlands

FOAM7

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 06
Waterbezwaarlijkheid	11

National legislation Germany

FOAM7

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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2-butoxyethanol

MAK - Krebserzeugend Kategorie	4
Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	2-Butoxyethanol; 10 ppm; MAK-Wert für die Summe der Luftkonzentrationen von 2-Butoxyethanol und 2-Butoxyethylacetat.
MAK 8-Stunden-Mittelwert mg/m ³	2-Butoxyethanol; 49 mg/m ³
TA-Luft	5.2.5

propan-2-ol

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	2-Propanol; 200 ppm
MAK 8-Stunden-Mittelwert mg/m ³	2-Propanol; 500 mg/m ³
TA-Luft	5.2.5

ammonia

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	Ammoniak; 20 ppm
MAK 8-Stunden-Mittelwert mg/m ³	Ammoniak; 14 mg/m ³

National legislation France

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No data available

National legislation Belgium

FOAM7

No data available

Other relevant data

FOAM7

No data available

Reason for revision: 3.2

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2-butoxyethanol

TLV - Carcinogen	2-Butoxyethanol (EGBE); A3
IARC - classification	3; 2-butoxyethanol

propan-2-ol

IARC - classification	3; Isopropanol
TLV - Carcinogen	2-propanol; A4

15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels



Extremely flammable

R-phrases

12 Extremely flammable

S-phrases

02 Keep out of the reach of children
16 Keep away from sources of ignition - No smoking
23 Do not breathe spray
(46) (If swallowed, seek medical advice immediately and show this container or label)
51 Use only in well-ventilated areas

Additional recommendations

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.

Full text of any R-phrases referred to under headings 2 and 3:

R11 Highly flammable
R12 Extremely flammable
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R22 Harmful if swallowed
R34 Causes burns
R36 Irritating to eyes
R36/38 Irritating to eyes and skin
R41 Risk of serious damage to eyes
R50 Very toxic to aquatic organisms
R67 Vapours may cause drowsiness and dizziness

Full text of any H-statements referred to under headings 2 and 3:

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Specific concentration limits CLP

ammonia	C ≥ 5 %	STOT SE 3; H335	CLP Annex VI (ATP 0)
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Specific concentration limits DSD

ammonia	C ≥ 10 %	C; R34	DSD Annex VI (ATP 0)
	5 % ≤ C < 10 %	Xi; R36/37/38	DSD Annex VI (ATP 0)

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