



Safety Data Sheet

according to Regulation (EC) No 1907/2006

HPM Power Foam

Version 1.0 revised 18/07/2022

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

1.1. Product identifier

HPM Power Foam

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

Use of the substance/mixture

Aerosol - Washing and cleaning products

SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use

1.3. Details of the supplier of the safety data sheet

Company name: HPM Technologie GmbH

Street: Paul-Lechler-Straße 21

Place: D-72581 Dettingen/Erms

Telephone: +49 7123 88039-10

Telefax: +49 7123 88039-81

e-mail: info@hpmtechnologie.de

e-mail (Contact person): info@hpmtechnologie.de

Internet: www.hpmtechnologie.de

1.4. Emergency telephone number:

+49 7123 88039-10
Only available during office hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aerosol 1; H222-H229

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			15 - < 20 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
106-97-8	butane			5 - < 10 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Liquefied gas; H220 H280			
74-98-6	propane			2.5 - < 5 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Liquefied gas; H220 H280			
111-76-2	2-butoxyethanol			1 - < 2.5 %
	203-905-0		01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H312 H302 H315 H319			
1336-21-6	ammonia 25 %			0.1 - < 0.5 %
	215-647-6		01-2119488876-14	
	Skin Corr. 1B, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 2; H314 H335 H400 H411			
137-16-6	Sodium N-Lauroyl Sarcosinate			< 0.1 %
	205-281-5		01-2119527780-39	
	Acute Tox. 2, Skin Irrit. 2, Eye Dam. 1; H330 H315 H318			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	15 - < 20 %
	dermal: LD50 = 13900 mg/kg; oral: LD50 = 5840 mg/kg		
111-76-2	203-905-0	2-butoxyethanol	1 - < 2.5 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 1414 mg/kg		
1336-21-6	215-647-6	ammonia 25 %	0.1 - < 0.5 %
	M acute; H400: M=1		
137-16-6	205-281-5	Sodium N-Lauroyl Sarcosinate	< 0.1 %
	inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); oral: LD50 = > 5000 mg/kg Skin Irrit. 2; H315: >= 30 - 100 Eye Dam. 1; H318: >= 30 - 100 Eye Irrit. 2; H319: >= 1 - < 30		

Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % aliphatic hydrocarbons, < 5 % anionic surfactants, perfumes.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurized container: May burst if heated. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not pierce or burn, even after use.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Further information on handling

Heating causes rise in pressure with risk of bursting.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

Aerosol - Washing and cleaning products

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	Category	Origin
111-76-2	2-Butoxyethanol	20	98		TWA (8 h)	
		50	246		STEL (15 min)	

DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	500 mg/m ³
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m ³
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
111-76-2	2-butoxyethanol			
Worker DNEL, long-term		inhalation	systemic	98 mg/m ³
Worker DNEL, acute		inhalation	systemic	1091 mg/m ³
Worker DNEL, acute		inhalation	local	246 mg/m ³
Worker DNEL, long-term		dermal	systemic	125 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	89 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	59 mg/m ³
Consumer DNEL, acute		inhalation	systemic	426 mg/m ³
Consumer DNEL, acute		inhalation	local	147 mg/m ³
Consumer DNEL, long-term		dermal	systemic	75 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	89 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	6,3 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	26,7 mg/kg bw/day
1336-21-6	ammonia 25 %			
Worker DNEL, acute		dermal	systemic	6,8 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	6,8 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	47,6 mg/m ³
Worker DNEL, acute		inhalation	local	36 mg/m ³
Worker DNEL, long-term		inhalation	systemic	47,6 mg/m ³
Worker DNEL, long-term		inhalation	local	14 mg/m ³
Consumer DNEL, acute		dermal	systemic	68 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	68 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	23,8 mg/m ³
Consumer DNEL, acute		inhalation	local	7,2 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	23,8 mg/m ³
Consumer DNEL, long-term		inhalation	local	2,8 mg/m ³
Consumer DNEL, acute		oral	systemic	6,8 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	6,8 mg/kg bw/day
137-16-6	Sodium N-Lauroyl Sarcosinate			
Consumer DNEL, long-term		oral	systemic	0,15 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	5 mg/m ³
Worker DNEL, long-term		inhalation	systemic	5 mg/m ³

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	
Freshwater		140,9 mg/l
Freshwater (intermittent releases)		140,9 mg/l
Marine water		140,9 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Secondary poisoning		160 mg/kg
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/kg
111-76-2	2-butoxyethanol	
Freshwater		8,8 mg/l
Freshwater (intermittent releases)		26,4 mg/l
Marine water		0,88 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Secondary poisoning		20 mg/kg
Micro-organisms in sewage treatment plants (STP)		463 mg/l
Soil		2,33 mg/kg
1336-21-6	ammonia 25 %	
Freshwater		0,0011 mg/l
Marine water		0,0011 mg/l
137-16-6	Sodium N-Lauroyl Sarcosinate	
Freshwater		0,0297 mg/l
Freshwater (intermittent releases)		0,279 mg/l
Marine water		0,003 mg/l

8.2. Exposure controls**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye/face protection. Suitable eye protection: Eye glasses with side protection EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended material: Butyl caoutchouc (butyl rubber) (EN ISO 374)

Thickness of the glove material: 0,4 mm

Wearing time with permanent contact: >120 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Suitable respiratory protection apparatus: Combination filtering device AX-P2

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: Liquid
 Colour: whitish
 Odour: like: Lemon

Melting point/freezing point:

Test method
 not determined

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Boiling point or initial boiling point and boiling range:	< -20 °C
Flammability	
Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	1,5 vol. %
Upper explosion limits:	13 vol. %
Flash point:	< -20 °C
Auto-ignition temperature:	> 350 °C
Decomposition temperature:	not determined
pH-Value (at 20 °C):	8,8 Data apply to the technically active substance.
Water solubility: (at 20 °C)	easily soluble
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	0,896 g/cm ³ calculated.
Relative vapour density:	not determined

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

Heating may cause an explosion. In use, may form flammable/explosive vapour-air mixture.

Sustaining combustion:

No data available

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Viscosity / dynamic:

not applicable

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

Extremely flammable aerosol. Pressurized container: May burst if heated.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 5840 mg/kg	Rat		OECD 401
	dermal	LD50 13900 mg/kg	Rabbit		OECD 402
111-76-2	2-butoxyethanol				
	oral	LD50 1414 mg/kg	Guinea pig	Study report (1994)	OECD Guideline 401
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
137-16-6	Sodium N-Lauroyl Sarcosinate				
	oral	LD50 > 5000 mg/kg	Rat		
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. No further relevant information available.

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50 9640 mg/l	96 h		Publication (1983)	OECD Guideline 203
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EL50 9714 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Acute bacteria toxicity	(EC50 >100 mg/l)				
106-97-8	butane					
	Acute fish toxicity	LC50 49,9 mg/l	96 h	Fish, no other information	United States Environmental Protection A	
	Acute algae toxicity	ErC50 19,37 mg/l	96 h	Algae	USEPA OPPT Risk Assessment Division (200)	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 69,43 mg/l	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200)	Calculation using ECOSAR Program v1.00.
74-98-6	propane					
	Acute fish toxicity	LC50 49,9 mg/l	96 h	Fish, no other information	United States Environmental Protection A	
	Acute algae toxicity	ErC50 19,37 mg/l	96 h	Algae	USEPA OPPT Risk Assessment Division (200)	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 69,43 mg/l	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200)	Calculation using ECOSAR Program v1.00.
111-76-2	2-butoxyethanol					
	Acute fish toxicity	LC50 1474 mg/l	96 h	Oncorhynchus mykiss	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 203
	Acute algae toxicity	ErC50 911 mg/l	72 h	Pseudokirchneriella subcapitata	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 201
	Acute crustacea toxicity	EC50 1550 mg/l	48 h		Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 202
	Fish toxicity	NOEC > 100 mg/l	21 d	Danio rerio	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 204
	Algae toxicity	NOEC 286 mg/l	3 d	Pseudokirchneriella subcapitata		OECD 201
	Crustacea toxicity	NOEC 100 mg/l	21 d		Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 211
	Acute bacteria toxicity	(EC50 700 mg/l)	0 h	Pseudomonas putida		DIN 38412
1336-21-6	ammonia 25 %					
	Acute fish toxicity	LC50 0,89 mg/l	96 h	Onchorhynchus mykiss		
137-16-6	Sodium N-Lauroyl Sarcosinate					
	Acute fish toxicity	LC50 107 mg/l	96 h	Danio rerio (zebrafish)		
	Algae toxicity	NOEC 9,2 mg/l		Desmodesmus subspicatus		

12.2. Persistence and degradability

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
	Biodegradation	95%	21	
	Readily biodegradable (according to OECD criteria).			
111-76-2	2-butoxyethanol			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	90,4%	28	
	Readily biodegradable (according to OECD criteria).			
1336-21-6	ammonia 25 %			
	Biodegradation	<70 %	28	
	Not readily biodegradable (according to OECD criteria)			
137-16-6	Sodium N-Lauroyl Sarcosinate			
	Biodegradation (OECD 301F)	>80%	28	

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05
106-97-8	butane	1,09
74-98-6	propane	1,09
111-76-2	2-butoxyethanol	0,81
1336-21-6	ammonia 25 %	-0,64

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packages can be recycled.

SECTION 14: Transport information

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Land transport (ADR/RID)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0
 Transport category: 2
 Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Special Provisions: 63, 190, 277, 327, 344, 381, 959
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

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Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS, FLAMMABLE
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1



Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y203
Excepted quantity:	E0
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Flammable gases.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC):	26,808 % (240,198 g/l)
2004/42/EC (VOC):	26,82 % (240,311 g/l)
Information according to 2012/18/EU (SEVESO III):	P3a FLAMMABLE AEROSOLS

Additional informationRegulation (EC) No. 648/2004 [Detergents regulation].
Aerosol Directive (75/324/).**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,4,5,6,7,8,9,10,11,12,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 CLP: Classification, labelling and Packaging

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REACH: Registration, Evaluation and Authorization of Chemicals
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 UN: United Nations
 DNEL: Derived No Effect Level
 DMEL: Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 ATE: Acute toxicity estimate
 LL50: Lethal loading, 50%
 EL50: Effect loading, 50%
 EC50: Effective Concentration 50%
 ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-concentration factor
 PBT: persistent, bioaccumulative, toxic
 vPvB: very persistent, very bioaccumulative
 RID: Regulations concerning the international carriage of dangerous goods by rail
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 ICAO: International Civil Aviation Organization
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 VOC: Volatile Organic Compounds
 SVHC: Substance of Very High Concern
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Eye Irrit. 2; H319	Bridging principle "Aerosols"

Relevant H and EUH statements (number and full text)

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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)