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Safety data sheet in accordance with Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 26.03.2020 / 0001 Replaces version

of / Version: 26.03.2020 / 0001 Effective from: 26.03.2020 PDF
print date: 07.04.2020

Schaumi the play foam

Safety Data Sheet in accordance with Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Schaumi the play foam

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

Relevant identified uses of the substance or mixture:

See the name of the substance or mixture.

Uses that are not recommended:

No information is currently available on this.

1.3 Details of the supplier providing the safety data sheet

BLS GmbH

Copernicus Street 1

74670 Forchtenberg

Tel.: 07947 98111 0

Fax: 07947 98111 29

Email: mail@bls.net

Internet: www.bls.net

Email address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de - please DO NOT use to request safety data sheets.

1.4 Emergency number

Emergency information services / public advice center:

Poison Control Center (GIZ) of the states of Rhineland-Palatinate and Hesse, Clinical Toxicology, University Hospital, Langenbeckstr. 1, D-55131 Mainz. 24-hour emergency hotline: +49 6131-19240, +49 6131-23 24 66 (Infoline)

The company's emergency number:

SECTION 2: Potential Dangers

2.1 Classification of the substance or mixture

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

Hazard class, hazard category, hazard statement

Aerosol 3 H229 container is under pressure: May burst if heated.

2.2 Identification elements

Labelling in accordance with Regulation (EC) No 1272/2008 (CLP)

Danger

H229 container is under pressure: May burst if heated.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 - Do not pierce or burn, even after use.

P410+P412 - Protect from sunlight and do not expose to temperatures above 50 °C.

Without adequate ventilation, the formation of explosive mixtures is possible.

The cosmetics regulation must be applied.

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2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) and is not subject to Annex XIII of the Regulation (EC) 1907/2006 (< 0.1%).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not covered by Annex XIII of Regulation (EC) 1907/2006 (< 0.1%).

SECTION 3: Composition/Information on ingredients

Aerosol

3.1 Fabric

n/a

3.2 Mixture

Stearic acid	
Registration number (REACH)	---

EINECS, ELINCS, NLP CAS	200-313-4
%	57-11-4
Index Range	1-<10
Classification according to Regulation (EC) No 1272/2008 (CLP)	Skin Irrit. 2, H315

Alcohols, C12-14, ethoxylated	
Registration number (REACH)	---

EINECS, ELINCS, NLP CAS	500-213-3 (NLP)
%	68439-50-9
Index Range	0.1-<1
Classification according to Regulation (EC) No 1272/2008 (CLP)	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412

For the text of the H-statements and classification abbreviations (GHS/CLP), see section 16.

The substances mentioned in this section are listed with their actual, correct classification!

This means that for substances listed in Annex VI, Table 3.1 of Regulation (EC) No 1272/2008 (CLP Regulation), any comments mentioned therein have been taken into account for the classification mentioned here.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

First responders should take precautions to protect themselves!

Never give anything to an unconscious person through the mouth!

Inhale

Provide the person with fresh air and consult a doctor depending on the symptoms.

skin contact

Usually not irritating to the skin.

Wash with water.

Eye contact

Remove contact lenses.

Rinse thoroughly with plenty of water for several minutes; if necessary, consult a doctor.

Swallow

Rinse mouth thoroughly with water.

Give the child plenty of water to drink; consult a doctor if necessary.

4.2 Most important acute and delayed symptoms and effects

If applicable, delayed symptoms and effects can be found in section 11 or under routes of administration in section 4.1.

In certain cases, the symptoms of poisoning may only appear after a longer period of time/after several hours.

4.3 Indications of immediate medical assistance or special treatment

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing agents

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foam

Suitable extinguishing agents

Water spray jet/foam/CO2/dry extinguishing agent

Unsuitable extinguishing agents

None known. 5.2

Special hazards arising from the substance or mixture : In case of fire, the following may be formed:

Carbon oxides, nitrogen oxides, toxic

gases. Bursting

hazard when

heated . 5.3

Advice for firefighters: Do not

inhale explosion and combustion gases.

Self-contained breathing apparatus.

Depending on the size of the fire, full

protective gear may be necessary.

Cool vulnerable containers with water.

Dispose of contaminated firefighting water in accordance with official regulations.

SECTION 6: Measures in case of accidental release

6.1 Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation.

Avoid eye contact.

6.2 Environmental protection measures Do not

allow to enter the sewer system.

Avoid penetration into surface water, groundwater, and soil.

6.3 Methods and materials for containment and cleaning: In case of aerosol/gas escaping,

ensure sufficient fresh air.

Absorb with liquid-binding material (e.g. universal binder, sand, diatomaceous earth) and dispose of in accordance with section 13.

Rinse the remaining amount with plenty of water.

6.4 Reference to other sections See section 13. and for

personal protective equipment see section 8.

SECTION 7: Handling and Storage

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

7.1 Protective measures for safe handling 7.1.1 General recommendations

Ensure good room ventilation.

Avoid eye contact.

Eating, drinking, smoking and storing food in the work area are prohibited.

Please observe the instructions on the label and the user manual.

Apply work procedures according to the operating instructions.

7.1.2 Notes on general hygiene measures in the workplace General hygiene measures when handling chemicals must be applied.

Wash your hands before breaks and at the end of the workday.

Keep away from food, drinks and animal feed.

Remove contaminated clothing and protective equipment before entering areas where food is being eaten.

7.2 Conditions for safe storage, taking into account incompatibilities . Keep out of reach of unauthorized persons.

Do not store the product in passageways and stairwells.

Special regulations for aerosols must be observed!

Protect from sunlight and temperatures above 50°C.

Store in a well-ventilated place.

Store in a cool place.

7.3 Specific end uses No information is currently available on this.

SECTION 8: Exposure Limits and Controls/Personal Protective equipment

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8.1 Parameters to be monitored

Chemical name AGW: 1	Triethanolamine	%Area:
mg/m3 E Monitoring	Spb.-Üf.: 1(l)	---
methods: BGW: ---		
	Other information: DFG, Y	

Chemical name AGW:	butane	%Area:
1000 ppm (2400 mg/m3) Monitoring	Spb.-Üf.: 4(II)	---
methods:	- Compur - KITA-221 SA (549 459)	
BGW: ---	Other information: DFG	

Chemical name AGW:	propane	%Area:
1000 ppm (1800 mg/m3) Monitoring	Spb.-Üf.: 4(II)	---
methods: BGW: ---	- Compur - KITA-125 SA (549 954)	
	Other information: DFG	

Chemical name AGW: 200	Glycerin	%Area:
mg/m3 E Monitoring	Spb.-Üf.: 2(l)	---
methods: BGW: ---		
	Other information: DFG, Y	

Alcohols, C12-14, ethoxylated						
Application area	Route of exposure / environmental compartment	Impact on the Health	Descript r	Value	Unit	Remark ng
	Environment - Freshwater		PNEC	0.0437 mg/l		
	Environment - Seawater		PNEC	0.0437 mg/l		
	Environment - Sediment, Freshwater		PNEC	31 mg/kg		
	Environment - Sediment, Seawater		PNEC	31	mg/kg	
	Environment - Wastewater treatment plant ge		PNEC	1000	mg/l	
	Environment - Soil		PNEC		mg/kg	
consumer	Human - oral	Long-term, systemic effects	DNEL	1 25	mg/kg bw/d	
consumer	Human - Inhalation	Long-term, systemic effects	DNEL	87	mg/m3	
consumer	Human - dermal	Long-term, systemic effects	DNEL	1250	mg/kg bw/d	
worker / employee	Human - Inhalation	Long-term, systemic effects	DNEL	294	mg/m3	
worker / employee	Human - dermal	Long-term, systemic effects	DNEL	2080	mg/kg bw/d	

Triethanolamine						
Application area	Route of exposure / environmental compartment	Impact on the Health	Descript r	Value	Unit	Remark ng
	Environment - Freshwater		PNEC	0.32	mg/l	
	Environment - Seawater		PNEC	0.032	mg/l	
	Environment - Water, sporadic (intermittent) release		PNEC	5.12	mg/l	
	Environment - Wastewater treatment plant ge		PNEC	10	mg/l	
	Environment - Sediment, Freshwater		PNEC	1.7	mg/kg	
	Environment - Sediment, Seawater		PNEC	0.17	mg/kg	

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	Environment - Soil		PNEC	0.151	mg/kg dry weight	
consumer	Human - dermal	Long-term, systemic effects	DNEL	2.66	mg/kg bw/day	
consumer	Human - oral	Long-term, systemic effects	DNEL	3	mg/kg bw/day	
consumer	Human - Inhalation	Long-term, systemic effects	DNEL	1.25	mg/m3	
consumer	Human - Inhalation	Long-term, local Effects	DNEL	0.4	mg/m3	
worker / employee	Human - dermal	Long-term, systemic effects	DNEL	6.3	mg/kg bw/day	
worker / employee	Human - Inhalation	Long-term, systemic effects	DNEL	5	mg/m3	
worker / employee	Human - Inhalation	Long-term, local Effects	DNEL	1	mg/m3	

Glycerin						
Application area	Route of exposure / environmental compartment	Impact on the Health	Descriptor	Value	Unit	Remark
	Environment - Freshwater		PNEC	0.885	mg/l	
	Environment - Seawater		PNEC	0.088	mg/l	
	Environment - Wastewater treatment plant		PNEC	1000	mg/l	
	Environment - Sediment, Freshwater		PNEC	3.3	mg/kg dw	
	Environment - Sediment, Seawater		PNEC	0.33	mg/kg dw	
	Environment - Soil		PNEC		mg/kg dw	
consumer	Human - Inhalation	Long-term, local Effects	DNEL	0.14133	mg/m3	
consumer	Human - oral	Long-term, systemic effects	DNEL	229	mg/kg bw/day	
worker / employee	Human - Inhalation	Long-term, local Effects	DNEL	56	mg/m3	

AGW = Occupational Exposure Limit. E = Inhalable fraction, A = Respirable fraction.
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/EC). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/EC). (11) = Inhalable fraction (Directive 2004/37/EC). (12) = Inhalable fraction. Respirable fraction in Member States which, on the date of entry into force of this Directive, implement a biomonitoring system with a biological limit value of no more than 0.002 mg Cd/g creatinine in urine (Directive 2004/37/EC). | Peak limit = Exceedance factor (1 to 8) and category (I, II) for short-term values. = Instantaneous value. Category (I) = Substances where the local effect is the limit value determining factor or respiratory sensitizing substances, (II) = Substances with absorption effects.

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit for a reference period of one minute (2017/164/EU). | BGW = Biological limit value.
Sampling time: a) no restriction, b) end of exposure or shift, c) in case of long-term exposure: at the end of a shift after several previous shifts, d) before the following shift, e) after the end of exposure: hours, f) after at least 3 months of exposure, g) immediately after exposure, h) before the last shift of a work week. | Other information: ARW = Occupational exposure limit, H = dermal absorption. Y = A risk of harm to the unborn child need not be feared if the OEL and BGW are observed. Z = A risk of harm to the unborn child cannot be excluded even if the OEL and BGW are observed (see section 2.7 TRGS 900). Sa = Respiratory sensitizer. Sh = Skin sensitizer. Sah = Respiratory and skin sensitizer. DFG = German Research Foundation (MAK Commission). AGS = Committee on Hazardous Substances. (10) = The occupational exposure limit refers to the elemental content of the corresponding metal. (11) = Sum of vapor and aerosols.

** The limit value for this substance was repealed by TRGS 900 (Germany) of January 2006 with the aim of revision.

TRGS 905 - List of carcinogenic, germ cell mutagenic or reprotoxic substances (substances not listed in Annex VI Part 3 of the CLP Regulation or classified differently by the AGS) with K = Carcinogenic, M = Germ cell mutagen, RF = Reprotoxic - Harmful to fertility (may impair fertility), RE = Reprotoxic - Harmful to development (may harm the child in the womb), 1A/1B/2 = Categories according to Annex I of the CLP Regulation.
(13) = The substance can cause skin and respiratory sensitization (Directive 2004/37/EC), (14) = The substance can cause skin sensitization (Directive 2004/37/EC).

8.2 Limiting and monitoring exposure
8.2.1 Suitable technical control devices

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Ensure good ventilation. This can be achieved through local extraction or general exhaust air.
If this is not sufficient to keep the concentration below the occupational exposure limits (OELs), suitable respiratory protection must be worn.

Only applies if exposure limits are listed here.
Suitable assessment methods for verifying the effectiveness of the protective measures taken include metrological and non-metrological methods of investigation.

These are described by, for example, BS EN 14042, TRGS 402 (Germany).
BS EN 14042 "Workplace atmosphere. Guidelines for the application and use of methods and equipment for the detection of chemical and biological agents".

TRGS 402 "Determining and assessing the hazards of activities involving hazardous substances - Inhalative exposure".

8.2.2 Individual protective measures, for example personal protective equipment

General hygiene measures for handling chemicals must be followed.
Wash your hands before breaks and at the end of the workday.

Keep away from food, drinks and animal feed.
Remove contaminated clothing and protective equipment before entering areas where food is being eaten.

Eye/face protection:
Not normally required.

Skin protection - Hand protection:
Not normally required.

Skin protection - Other protective measures:
Not normally required.

Respiratory protection:
Not normally required.

Thermal hazards:
Not applicable

Additional information regarding hand protection - No tests were conducted.
The selection of ingredients for the mixtures was made to the best of our knowledge and based on information about the ingredients.
The selection of fabrics was derived from the information provided by the glove manufacturers.
The final selection of glove material must be made taking into account breakthrough times, permeation rates and degradation.

The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer.

The resistance of glove materials to mixtures is unpredictable and must therefore be checked before use.

The exact breakthrough time of the glove material can be obtained from the protective glove manufacturer and must be adhered to.

8.2.3 Limiting and monitoring environmental exposure

No information is currently available on this.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of matter: Foam aerosol
Color: White
Scent: Characteristic
Odor threshold: Not determined
pH value: Not determined
Melting point/freezing point: Not determined
Boiling point and boiling range: Not determined
Flash point: Not determined
Evaporation rate: Not determined
Flammability (solid, gaseous): Not determined
Lower explosive limit: Not determined
Upper explosion limit: Not determined
Vapor pressure: Not determined
Vapor density (air=1): Not determined
Density: 1.0095 g/cm3 (20°C, active ingredient)
Bulk density: Not determined

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Solubility(ies):	Not determined
Water solubility:	Soluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	<=20.5 mm2/s (40°C)
Explosive properties:	Not determined
Oxidizing properties: 9.2	Not determined
Other information	
Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvent content:	Not determined

SECTION 10: Stability and Reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable when stored and handled properly.

10.3 Possibility of dangerous reactions

No dangerous reactions are known.

10.4 Conditions to be avoided

Heating, open flames, ignition sources

Increased pressure leads to a risk of bursting.

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

No decomposition when used as intended.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

For further information on health effects, see section 2.1 (Classification).

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Toxicity / Effects	Endpoint value	Unit	Organism	Test Method	remark
Acute oral toxicity:					kDv
Acute dermal toxicity:					kDv
Acute inhalation toxicity:					kDv
Corrosive/irritant effect on the Skin:					kDv
Severe eye damage/-irritation:					kDv
Raising awareness					kDv
Respiratory system/Skin:					kDv
Germ cell mutagenicity:					kDv
Carcinogenicity:					kDv
Reproductive toxicity:					kDv
Specific target organ Toxicity - one-time Exposure (STOT-SE):					kDv
Specific target organ Toxicity - repeated Exposure (STOT-RE):					kDv
Risk of aspiration:					kDv
Symptoms:					kDv

Stearic acid

Toxicity / Effect	Endpoint value	Unit	Organism	Test Method	mg/kg	mg/kg	remark
Acute oral toxicity:	LD50 21500			rat			
Acute dermal toxicity:	LD50 >5000			rabbit			
Severe eye damage/-irritation:				rabbit			Not irritating

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Raising awareness Respiratory system/Skin:						There is no evidence of such an effect.
Germ cell mutagenicity:					(Ames test)	Negative, no indications of such an effect.
Carcinogenicity:						Negative
Symptoms:						Mucosal irritation ung

Alcohols, C12-14, ethoxylated							
Toxicity / Effect	Endpoint value		Unit	Organism	Test Method	mg/kg	remark
Acute oral toxicity:	LD50	>2000		rat	OECD 401 (Acute Oral Toxicity)		
Acute dermal toxicity:	LD50	> 2000	mg/kg	rat	OECD 402 (Acute Dermal Toxicity)		Analogy
Corrosive/irritant effect on the Skin:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)		Not irritating
Severe eye damage/-irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)		Not irritating
Raising awareness Respiratory system/Skin:				Guinea pig chen	OECD 406 (Skin Sensitization)		No (Skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse mutation Test)		Negative
Germ cell mutagenicity:				mammal	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)		Negative, Analogy
Reproductive toxicity (Developmental impairment):				rat	OECD 416 (Two-generation Reproduction Toxicity Study)		Negative, Analogy
Reproductive toxicity (Effect on the Fertility):				rat	OECD 416 (Two-generation Reproduction Toxicity Study)		Negative, Analogy

Triethanolamine							
Toxicity / Effect	Endpoint value		Unit	Organism	Test Method	mg/kg OECD	remark
Acute oral toxicity:	LD50	6400		401 (Acute Oral Toxicity)			
Acute dermal toxicity:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)		
Acute toxicity, inhalation:	LC0	1.8	mg/l/4h	rat	OECD 403 (Acute Inhalation Toxicity)		fumes
Corrosive/irritant effect on the Skin:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)		Not irritating
Severe eye damage/-irritation:				rabbit	IUCLID Chem. Data Sheet (ESIS)		Not irritating
Raising awareness Respiratory system/Skin:				Guinea pig chen	OECD 406 (Skin Sensitization)		Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)		Negative
Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)		Negative

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Carcinogenicity:						Nitrosamines can form with nitrosating agents. Nitrosamines have been shown in animal studies to be carcinogenic proven.
Symptoms:						Unconsciousness, Diarrhea, cough, collapse, fatigue, dizziness, nausea and vomiting

butane						
Toxicity / Effect	Endpoint value	Unit	Organism	Test method	mg/l/4h	remark
Acute toxicity, inhalation:	LC50 658			rat		
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse mutation Test)	Negative
Risk of aspiration:						No
Symptoms:						Ataxia breathing difficulties en, Drowsiness, Unconsciousness , frostbite, heart rhythm disturbances, Headache, cramps, Intoxication Dizziness, nausea and Vomit

propane						
Toxicity / Effect	Endpoint value	Unit	Organism	Test method	mg/l/4h	remark
Acute toxicity, inhalation:	LC50 658			rat		
Corrosive/irritant effect on the Skin:						Not irritating
Severe eye damage/-irritation:						Not irritating
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental impairment):	NOAEC 21,641	mg/l			OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Risk of aspiration:						No

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Symptoms:						breathing difficulties en, Unconsciousness, Frostbite, Headache, cramps, Mucosal irritation ung, Dizziness, nausea and Vomit

Glycerin						
Toxicity / Effect	Endpoint value		Unit Organism	Test Method	mg/kg mg/kg	remark
Acute oral toxicity:	LD50 >2000			rat		
Acute dermal toxicity:	LD50 >10000			rabbit		
Corrosive/irritant effect on the Skin:				rabbit	IUCLID Chem. Data Sheet (ESIS)	Not irritating
Severe eye damage/- irritation:				Rabbit OECD 405	(Acute Eye Irritation/ Corrosion)	Not irritating
Raising awareness Respiratory system/Skin:				Guinea pig chen		Non-sensitizing
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse mutation Test)	Negative
Reproductive toxicity:	NOAEL	2000	mg/kg/d			Negative
Specific target organ Toxicity - repeated Exposure (STOT-RE):	NOAEL	3.91	mg/l	rat		14d
Risk of aspiration:						Negative
Symptoms:						Abdominal pain n, Drowsiness, Diarrhea, Vomit, Headache, Mucosa-free tongue

SECTION 12: Environmental Information

For further information on environmental impacts, see section 2.1 (Classification).

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Toxicity / Effect Endpoint	12.1. Toxicity,	Time	Value	Unit	Organism	Test method	remark
Fish: 12.1. Toxicity, Daphnia:							kDv
							kDv
12.1. Toxicity, algae: 12.2.							kDv
Persistence and degradability:							kDv
12.3.							kDv
Bioaccumulation sites National:							kDv
12.4. Mobility in the soil:							kDv
12.5. Results of the PBT and vPvB Assessment:							kDv
12.6. Other harmful effects:							kDv

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Other Information:							DOC- Elimination group ad (organic Complexing agents) >= 80%/28d: No
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Stearic acid							
Toxicity / Effect Endpoint	12.1. Toxicity, fish:	Time	Value	Unit organism	>1000 mg/l	Test method	remark
LC50 12.2. Persistence and degradability:		48h			Cyprinus caprio		
		28d	>70%			OECD 301 B (Ready Biodegradability - CO2 Evolution Test)	
Bacterial toxicity:	EC50	16h	>100	mg/l	Pseudomonas putida		

Alcohols, C12-14, ethoxylated							
Toxicity / Effect Endpoint	12.2. Persistence and Degradability:	Time	Value	Unit Organism	%	Test method	remark
		28d	95			OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable, Analogy
12.1. Toxicity, fish: LC50 96h	12.1. Toxicity, NOEC/NOEL		0.876	mg/l	Brachydanio rerio		Analogy
21d Daphnia:			0.77	mg/l	Daphnia magna		Analogy
12.1. Toxicity, Daphnia:	EL50	48h	0.39	mg/l	Daphnia magna		Analogy
12.1. Toxicity, algae: EL50		72h	0.41	mg/l	Pseudochurchnery lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogy
12.1. Toxicity, algae: NOEC/NOEL 72h			0.31	mg/l	Pseudochurchnery lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogy

Triethanolamine							
Toxicity / Effect	12.1.	Endpoint	Time	Value	Unit Organism	Test Method	remark
Toxicity, Daphnia:		EC50	24h	1390	Chem.	mg/l Daphnia magna IUCLID	
						Data Sheet (ESIS)	
12.3. Bioaccumulation sites National:		BCF		<3.9		Cyprinus caprio OECD 305 (Bioconcentration - Flow-Through Fish Test)	
12.1. Toxicity, algae: IC50			72h	216	mg/l	Desmodesmus subspicatus	
						IUCLID Chem. Data Sheet (ESIS)	
12.3. Bioaccumulation sites National:		Log Pow		-2.3		OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Not accepted due to the log Pow value.
Bacterial toxicity:		EC50	16h	>10,000 mg/l	Pseudomonas putida		

butane							
Toxicity / Effect Endpoint	12.1. Toxicity, Fish: LC50 12.1. Toxicity, Daphnia: LC50	Time	Value	Unit Organism	mg/l mg/l	Test method	remark
		96h	24.11			QSAR	
		48h	14.22			QSAR	

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12.3. Bioaccumulation sites National:	Log Pow		2.98				A noteworthy one Bioaccumulation No potential is to be expected. (LogPow 1-3).
12.5. Results of the PBT and vPvB Assessment:							No PBT fabric, no vPvB fabric

propane							
Toxicity / Effect 12.3.	Endpoint	Time	Value	Unit	Organism	Test method	remark
Bioaccumulation sites National:	Log Pow		2.28				A significant bioaccumulation No potential is to be expected (LogPow 1-3).
12.5. Results of the PBT and vPvB assessment:							No PBT fabric, no vPvB fabric

Glycerin								
Toxicity / Effect 12.2.	Endpoint	Time	Value	Unit	organism	g/g	Test method	remark
Persistence and degradability:	BOD5		0.87					
12.2. Persistence and degradability:	COD		1.16	g/g				
12.1. Toxicity, fish: LC50		96h	> 5000 mg/l		Carassius auratus			
12.1. Toxicity, Daphnia:	EC50	48h	>10000 mg/l		Daphnia magna			
12.1. Toxicity, Daphnia:	EC5	72h	3200	mg/l				Entosiphon sulcatum
12.1. Toxicity, algae: EC50 12.2.			2900	mg/l	Chlorella vulgaris			
Persistence and degradability:		14d	63	%			OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	
12.2. Persistence and degradability:	BOD/COD		>60	%				
12.2. Persistence and degradability:	BOD5/COD		> 50%					
12.2. Persistence and degradability:	DOC		>70	%				Readily biodegradable. Significant
12.3. Bioaccumulation sites National:	Log Pow		-1.76					bioaccumulation. No potential is to be expected (LogPow 1-3).
12.5. Results of the PBT and vPvB assessment:								No PBT fabric, no vPvB fabric
Bacterial toxicity:	EC5	16h	> 10000 mg/l		Pseudomonas putida			

SECTION 13: Disposal Information

13.1 Waste treatment procedures

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For the substance / mixture / residual quantities

Waste code no. EC:

The waste codes mentioned are recommendations based on the expected use of this product.
 Due to the specific usage and disposal conditions at the user's site, certain conditions may arise.
 Other waste codes may also be assigned. (2014/955/EU)
 16 05 04 Gases containing dangerous substances in pressure vessels (including halons)

Recommendation:

Disposal via wastewater is not recommended.
 Observe local regulations.

Take any still-filled aerosol cans to the hazardous waste collection point.
 Take empty aerosol cans to the recycling collection point.

For contaminated packaging material

Observe local regulations.

Do not puncture, cut or weld uncleaned containers.

15 01 04 Metal packaging

SECTION 14: Transport Information

General Information

14.1. UN number: 1950

Road / Rail transport (GGVSEB/ADR/RID)

14.2. Proper UN shipping name:
 UN 1950 Pressurized Gas Packs

14.3. Transport hazard classes: 14.4.

Packing group: Classification

code: LQ: 14.5.

Environmental hazards:

Tunnel restriction code: **Transport**

by sea (GGVSee/IMDG code)

14.2. Proper UN shipping name:
 AEROSOLS

14.3. Transport hazard classes: 14.4.

Packing group: EmS: Marine

pollutant: 14.5. Environmental hazards: **Air
 transport (IATA)**

14.2. Proper UN shipping name:
 Aerosols, non-flammable

14.3. Transport hazard classes: 14.4.

Packaging group: 14.5.

Environmental hazards:

14.6. Special precautions for the user

Persons involved in the transport of dangerous goods must be trained.
 Safety regulations must be observed by all persons involved in the transport.
 Precautions must be taken to prevent damage.

14.7. Bulk transport in accordance with Annex II of the MARPOL Convention and in accordance with the IBC Code

The freight is not shipped as bulk goods but as general cargo, therefore this is not applicable.
 Minimum quantity regulations are not observed here.
 Hazard number and packaging code available upon request.
 Observe special provisions.

SECTION 15: Legal Regulations

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

Please note the restrictions:

Observe the regulations of the employers' liability insurance association/occupational health.

Directive 2010/75/EU (VOC):

19.23%

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Water hazard class (Germany): 1

Observe the Youth Employment Protection Act (JArbSchG) (Germany).

Storage class according to TRGS 510:
2B Aerosol cans and lighters

15.2 Chemical Safety Assessment

A chemical safety assessment is not required for mixtures.

SECTION 16: Other information

Revised sections: Employee n/a
training in handling hazardous materials is required.
This information refers to the product as delivered.
Employees need to be instructed/trained in handling hazardous substances.

Classification and methods used to derive the classification of the mixture according to the Regulation (EC) 1272/2008 (CLP):

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aerosol 3, H229	Classification based on shape or state of matter.

The following sentences represent the full H-statements and hazard class code (GHS/CLP) of the ingredients (named in sections 2 and 3).

H315 Causes skin irritation.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long-lasting effects.

Aerosol — Aerosols
Skin Irrit. — Irritating effect on the skin
Aquatic Acute — Hazardous to water bodies - acute
Aquatic Chronic — Hazardous to water bodies - chronic

Abbreviations and acronyms that may be used in this document:

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
alcohol proof alcohol resistant
general
Note
AOX Adsorbable organic halogen compounds
Item no., Item no. Article number
ASTM ASTM International (American Society for Testing and Materials)
BAFU Federal Office for the Environment (Switzerland)
BAM Federal Institute for Materials Research and Testing
BAuA Federal Institute for Occupational Safety and Health
Note:
BG (Berufsgenossenschaft - German Social Accident Insurance)
BG BAU (German Social Accident Insurance Institution for the Construction Industry)
BSEF The International Bromine Council
bw body weight (= body weight)
or respectively
approx. approximately
CAS Chemical Abstracts Service
ChemRRV Chemicals Risk Reduction Ordinance (Switzerland)
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR: carcinogenic, mutagenic, reprotoxic (cancer-causing, mutagenic, harmful to reproduction)
DMEL Derived Minimum Effect Level

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DNEL Derived No Effect Level

dw dry weight (= Trockengewicht)

ECHA European Chemicals Agency

EC European Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Standards

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

etc., etc. et cetera, and so on

EU European Union

EVAL ethylene-vinyl alcohol copolymer

EEC European Economic Community

Fax: Fax number

according to

possibly

GGVSEB Dangerous Goods Ordinance for Road, Rail and Inland Waterway Transport (Germany)

GGVSee Dangerous Goods Ordinance for Seagoing Transport (Ordinance on the Transport of Dangerous Goods by Seagoing Vessels, Germany)

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GISBAU Hazardous Substance Information System of the BG Bau - German Social Accident Insurance Institution for the Construction Industry (Germany)

GisChem hazardous substance information system for chemicals of the BG RCI - German Social Accident Insurance Institution for the Raw Materials and Chemical Industry and the BGHM -

German Social Accident Insurance Institution for the Wood and Metal Industries (Germany)

GWP Global warming potential (= greenhouse potential)

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG Code - International Maritime Code for Dangerous Goods (= Dangerous goods in international maritime transport)

including inclusive, including

IUCLID International Uniform Chemical Information Database

kDv No data available

Motor vehicle, car

Concentration

LQ Limited Quantities

LRV Air Pollution Control Ordinance (Switzerland)

LVA lists on waste traffic (Switzerland)

MARPOL International Convention for the Prevention of Marine Pollution from Ships

Min., min. minute(s) or at least or minimum

n/a not applicable

ngnv not checked

not available

OECD Organisation for Economic Co-operation and Development

organic

PBT persistent, bioaccumulative and toxic

PE Polyethylen

PNEC Predicted No Effect Concentration

Pl. Point

PVC (Polyvinyl chloride)

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

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

resp. respectively

RID Regulations concerning the International Transport of Dangerous Goods by Rail (= Regulations for the International Transport of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Telephone

TRGS Technical Rules for Hazardous Substances

UEVK Federal Department of Environment, Transport, Energy and Communications (Switzerland)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods (the United Nations Recommendations)

Nations for the transport of dangerous goods)

UV Ultraviolet

VbF Regulation on Flammable Liquids (Austrian Regulation)

VeVA Ordinance on the handling of waste (Switzerland)

VOCs (Volatile organic compounds)

vPvB very persistent and very bioaccumulative

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WBF Federal Department of Economic Affairs, Education and Research (Switzerland)
WGK Ordinance on Installations for Handling Substances Hazardous to Water - AwSV (German Ordinance)
WGK1 slightly hazardous to water WGK2
significantly hazardous to water WGK3 highly
hazardous to water wwt wet weight (= wet mass) z. currently at the moment e.g. for
example

The information provided here is intended to describe the product with regard to the necessary safety precautions; it is not intended to guarantee specific
properties and is based on the current state of our knowledge.
Liability excluded.

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