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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.07.2018 / 0013
 Replacing version dated / version: 03.05.2018 / 0012
 Valid from: 17.07.2018
 PDF print date: 17.07.2018
 Scheiben-Reiniger-Schaum 300 mL
 Art.: 1512

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

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

1.1 Product identifier

Scheiben-Reiniger-Schaum 300 mL

Art.: 1512

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

Relevant identified uses of the substance or mixture:
 Window cleaner
 Sector of use (SU):
 SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU21 - Consumer uses: Private households (=general public = consumers)
 SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Chemical product category (PC):
 PC35 - Washing and cleaning products
Process category (PROC):
 PROC 7 - Industrial spraying
 PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 PROC10 - Roller application or brushing
 PROC11 - Non industrial spraying
 PROC19 - Manual activities involving hand contact
Article Categories (AC):
 AC99 - Not required.
Environmental Release Category (ERC):
 ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
 ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
 ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany
 Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class Hazard category

Aerosol 1 H222-Extremely flammable aerosol.

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Aerosol 1

H229-Pressurised container: May burst if heated.

2.2 Label elements

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



Danger

H222-Extremely flammable aerosol, H229-Pressurised container: May burst if heated.

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.

Without adequate ventilation, formation of explosive mixtures may be possible.

2.3 Other hazards

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

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

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a.

3.2 Mixture

Ethanol	Substance with specific conc. limit(s) acc. to REACH-registration
Registration number (REACH)	01-2119457610-43-XXXX
Index	603-002-00-5
EINECS, ELINCS, NLP	200-578-6
CAS	64-17-5
content %	10-20
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Eye Irrit. 2, H319

Ammonia	***
Registration number (REACH)	007-001-01-2
Index	215-647-6
EINECS, ELINCS, NLP	1336-21-6
CAS	0,1-<1
content %	

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Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 Eye Dam. 1, H318
-------------------------------------------------------------	---------------------------------------------------------------------------------------------------

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

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!
 Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
 Supply person with fresh air and consult doctor according to symptoms.

Skin contact

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

Eye contact

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

Ingestion

Typically no exposure pathway.
 Rinse the mouth thoroughly with water.
 Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

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

The following may occur:

Irritation of the eyes
 Irritation of the respiratory tract
 Coughing
 Headaches
 Nausea

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Extinguisher powder

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Hydrocarbons

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
 Protective respirator with independent air supply.

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According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.
 Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.
 Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.
 Without adequate ventilation, formation of explosive mixtures may be possible.

Active substance:

Soak up with absorbent material (e.g. sand, earth) and dispose of according to Section 13.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Do not use the product in enclosed spaces.

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

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingsuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special regulations for aerosols!

Do not store with oxidizing agents.

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

Store in a well ventilated place.

Observe special storage conditions.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name

Ethanol

Content %: 10-20

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WEL-TWA: 1000 ppm (1920 mg/m ³)	WEL-STEL: ---	---
Monitoring procedures:		
- Compur - KITA-104 SA (549 210)		
- Draeger - Alcohol 25/a Ethanol (81 01 631)		
- DFG (D) (Lösungsmittelmischungen), Methode Nr. 6 DFG (E) (Solvent mixtures) - 1998,		
- 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)		
BMGV: ---	Other information: ---	Content %: 0,1-1
Ammonia		
WEL-TWA: NH ₃ 25 ppm (18 mg/m ³) (WEL), 20 ppm	WEL-STEL: NH ₃ 35 ppm (25 mg/m ³) (WEL), 50 ppm	---
(14 mg/m ³) (EU)	(36 mg/m ³) (EU)	
Monitoring procedures:		
---	---	---
BMGV: ---	Other information: ---	Content %: ---
Propane		
WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL: ---	---
Monitoring procedures:		
- Compur - KITA-125 SA (549 954)		
BMGV: ---	Other information: ---	Content %: ---
Butane		
WEL-TWA: 600 ppm (1450 mg/m ³)	WEL-STEL: 750 ppm (1810 mg/m ³)	---
Monitoring procedures:		
- Compur - KITA-221 SA (549 459)		
BMGV: ---	Other information: ---	Content %: ---
Isobutane		
WEL-TWA: 1000 ppm (EX) (ACGIH)	WEL-STEL: ---	---
Monitoring procedures:		
- Compur - KITA-113 SB(C) (549 388)		
BMGV: ---	Other information: ---	Content %: ---

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40, AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU), (9) = Respirable fraction (2017/164/EU, 2017/2398/EU), | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU), (9) = Respirable fraction (2017/164/EU), (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU), | BMGV = Biological monitoring guidance value EH40, BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma, Sk = Can be absorbed through skin, Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repeated through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

Ethanol	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Environment - freshwater		PNEC	0,96	mg/l	
	Environment - marine		PNEC	0,79	mg/l	
Consumer	Environment - water, sporadic (intermittent) release		PNEC	2,75	mg/l	
	Environment - sewage treatment plant		PNEC	580	mg/l	
Consumer	Environment - sediment, freshwater		PNEC	3,6	mg/kg	
	Environment - soil		PNEC	0,63	mg/kg dry weight	
Consumer	Environment - oral (animal feed)		PNEC	0,72	mg/kg feed	
	Environment - sediment, marine		PNEC	2,9	mg/kg dry weight	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	950	mg/m ³	
	Human - dermal	Short term, local effects	DNEL	950	mg/m ³	

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Consumer	Human - inhalation	Long term, systemic effects	DNEL	114	mg/m ³
Consumer	Human - oral	Long term, systemic effects	DNEL	87	mg/kg
Consumer	Human - dermal	Long term, systemic effects	DNEL	206	mg/kg bw/d
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1900	mg/m ³
Workers / employees	Human - inhalation	Short term, local effects	DNEL	950	mg/m ³
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	343	mg/kg bw/d

Ammonia	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Environment - freshwater		PNEC	0,0011	mg/l	
	Environment - marine		PNEC	0,0011	mg/l	
	Environment - periodic release		PNEC	0,0068	mg/l	
Consumer	Human - inhalation	Long term, local effects	DNEL	2,8	mg/m ³	
	Human - dermal	Short term, local effects	DNEL	68	mg/kg body weight/day	
Consumer	Human - dermal	Short term, systemic effects	DNEL	68	mg/kg body weight/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	23,8	mg/m ³	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	23,8	mg/m ³	
Consumer	Human - oral	Short term, systemic effects	DNEL	6,8	mg/kg body weight/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,8	mg/kg body weight/day	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	6,8	mg/kg body weight/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	6,8	mg/kg body weight/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	47,6	mg/m ³	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	36	mg/m ³	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	47,6	mg/m ³	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	14	mg/m ³	

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Applies only if maximum permissible exposure values are listed here.
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.
 These are specified by e.g. BS EN 14042.
 BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
 Eye/face protection:
 Tight fitting protective goggles with side protection (EN 166).
 Skin protection - Hand protection:
 Protective gloves in butyl rubber (EN 374).
 Minimum layer thickness in mm:
 0.7
 Permeation time (penetration time) in minutes:
 > 480
 Protective hand cream: recommended
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
 The recommended maximum wearing time is 50% of breakthrough time.

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

Respiratory protection:
 Normally not necessary.
 If OES or MEL is exceeded,
 Gas mask filter A (EN 14387), code colour brown
 At high concentrations:
 Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
 Not applicable

Additional information on hand protection - No tests have been performed.
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
 Selection of materials derived from glove manufacturer's indications.
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:
 Aerosol, Active substance, liquid.
 Colourless
 Characteristic
 Colour:
 Not determined
 Odour:
 Not determined
 pH-value:
 9.5
 Melting point/freezing point:
 Not determined
 Initial boiling point and boiling range:
 Not determined
 Flash point:
 n.a.
 Evaporation rate:
 Not determined
 Flammability (solid, gas):
 Not determined
 Lower explosive limit:
 1.4 Vol-%
 Upper explosive limit:
 32 Vol-%
 Vapour pressure:
 4000 hPa

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Vapour density (air = 1):
 0.906 g/ml
 Density:
 n.a.
 Bulk density:
 Not determined
 Solubility(ies):
 Soluble
 Water solubility:
 Not determined
 Partition coefficient (n-octanol/water):
 Not determined
 Auto-ignition temperature:
 510 °C (ignition temperature)
 Decomposition temperature:
 Not determined
 Viscosity:
 Not determined
 Explosive properties:
 No
 Oxidising properties:
 No

9.2 Other information

Miscibility:
 Not determined
 Fat solubility / solvent:
 Not determined
 Conductivity:
 Not determined
 Surface tension:
 Not determined
 Solvents content:
 Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with oxidizing agents.

See also section 7.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

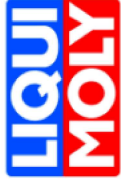
11.1 Information on toxicological effects

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

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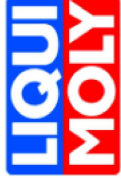
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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.



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Symptoms:		n.d.a.	
Other information:		Classification according to calculation procedure.	
Ethanol			
Toxicity / effect	Endpoint	Value	Notes
Acute toxicity, by oral route:	LD50	10470	
Acute toxicity, by dermal route:	LD50	>2000	
Acute toxicity, by inhalation:	LC50	124.7	
Skin corrosion/irritation:			Not irritant
Serious eye damage/irritation:			Irritant
Respiratory or skin sensitisation:			No (skin contact)
Germ cell mutagenicity:			Negative
Germ cell mutagenicity:			Negative
Germ cell mutagenicity:			Negative
Germ cell mutagenicity:			Negative
Germ cell mutagenicity:			Negative
Carcinogenicity:	NOAEL	>3000	24 mon
Reproductive toxicity:	NOAEL	5200	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAL	>20	Male
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	1730	Female
Aspiration hazard:			No indications of such an effect.
Symptoms:			respiratory distress, drowsiness, unconsciousness, drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea



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Symptoms:		Excessive alcohol consumption during pregnancy induces the fetus alcohol syndrome (reduced weight at birth, physical and mental disorders),. There is no sign that this syndrome is also caused by dermal or inhalative absorption.	
Ammonia			
Toxicity / effect	Endpoint	Value	Notes
Acute toxicity, by oral route:	LD50	350	
Acute toxicity, by oral route:	LDLo	550	
Acute toxicity, by oral route:	LDLo	43	
Acute toxicity, by inhalation:	LCLo	5000	
Skin corrosion/irritation:			Corrosive
Serious eye damage/irritation:			Risk of serious damage to eyes.
Respiratory or skin sensitisation:			Not sensitizing
Germ cell mutagenicity:			None
Carcinogenicity:			None
Reproductive toxicity:			None
Symptoms:			asthmatic symptoms, respiratory distress, unconsciousness, burning of the membranes of the nose and throat, vomiting, cornea opacity, coughing, cramps, circulatory collapse, shock, nausea
Propane			
Toxicity / effect	Endpoint	Value	Notes
Acute toxicity, by inhalation:	LC50	658	
Germ cell mutagenicity:			
Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	
Aspiration hazard:			No

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Symptoms:					breathing difficulties, unconsciousness, frobrite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting.
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Butane	Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:		LC50	658	mg/l/4h	Rat	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:							
Aspiration hazard:							
Symptoms:							No ataxia, breathing difficulties, drowsiness, unconsciousness, frobrite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting.

Isobutane	Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:		LC50	658	mg/l/4h	Rat		Not irritant
Serious eye damage/irritation:							
Germ cell mutagenicity:						OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:							
Symptoms:							No unconsciousness, frobrite, headaches, cramps, dizziness, nausea and vomiting.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).
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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.

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12.2. Persistence and degradability:							The surfactant(s) contained in this mixture complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment:							n.d.a.
12.6. Other adverse effects:							n.d.a.
Other information:							According to the recipe, contains no AOX.

Ethanol	Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:		Log Pow		-0.32				Bioaccumulation is unlikely (LogPow < -1).
12.3. Bioaccumulative potential:		BCF		0.66 - 3.2				
12.1. Toxicity to fish:		LC50	96h	13000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:		LC50	48h	12340	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:		NOEC/NOEL		9.6	mg/l	Ceriodaphnia spec.		
12.2. Persistence and degradability:				97	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.1. Toxicity to algae:		EC50	72h	275	mg/l	Chlorella vulgaris	OECD 201 (Alga, Growth Inhibition Test)	
Other organisms:		NOEC/NOEL		280	mg/l	Lemma gibba	OECD 201 (Alga, Growth Inhibition Test)	
12.5. Results of PBT and vPvB assessment								No PBT substance. No vPvB substance

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12.4. Mobility in soil:	H (Henry)	0,00013	8	
Toxicity to bacteria:	COD	mg/l	440	
Other information:	COD	g/g	19	
	BOD5	g/g	1	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,42	mg/l	Daphnia magna		
12.1. Toxicity to fish:	NOEC/NOEL	27d	0,06	mg/l	Ictalurus punctatus		
12.1. Toxicity to fish:	LC50	96h	8,2	mg/l	Pimephales promelas		
12.1. Toxicity to fish:	LC50	96h	0,53	mg/l	Oncorhynchus mykiss		Anhydrous substance
12.1. Toxicity to daphnia:	EC50	48h	0,66	mg/l	Daphnia pulex		Anhydrous substance
12.1. Toxicity to daphnia:	EC50	48h	1,16	mg/l	Daphnia pulex		Anhydrous substance
12.2. Persistence and degradability:							Readily biodegradable
12.3. Bioaccumulative potential:							Not to be expected
Toxicity to bacteria:	EC50	5min	1,16	mg/l	Photobacterium phosphoreum		Anhydrous substance
Water solubility:							Soluble

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

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		QSAR	
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	
12.3. Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3). No PBT substance. No vPvB substance
12.5. Results of PBT and vPvB assessment							

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:							A notable biological accumulation potential is not to be expected (LogPow 1-3). Readily biodegradable
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and degradability:							

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12.5. Results of PBT and vPvB assessment					No PBT substance	No vPvB substance
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SECTION 13: Disposal considerations

13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.:
 The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)
 16 05 04 gases in pressure containers (including halons) containing hazardous substances
 20 01 29 detergents containing hazardous substances

Recommendation:
 Sewage disposal shall be discouraged.
 Pay attention to local and national official regulations.
 Take full aerosol cans to problem waste collection.
 Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.
 Recommendation:
 Do not perforate, cut up or weld undeanned container.
 15 01 04 metallic packaging
 15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

14.1. UN number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: AEROSOLS
 14.3. Transport hazard class(es): 2.1
 14.4. Packing group: 5F
 Classification code: 1L
 LQ: Not applicable
 14.5. Environmental hazards: D
 Tunnel restriction code: D

Transport by sea (IMDG-code)

14.2. UN proper shipping name: AEROSOLS
 14.3. Transport hazard class(es): 2.1
 14.4. Packing group: F-D, S-U
 EmS: n.a.
 Marine Pollutant: Not applicable
 14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name: Aerosols, flammable
 14.3. Transport hazard class(es): 2.1
 14.4. Packing group: Not applicable
 14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.
 All persons involved in transporting must observe safety regulations.
 Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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Freighted as packaged goods rather than in bulk, therefore not applicable.
 Minimum amount regulations have not been taken into account.
 Danger code and packing code on request.
 Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!
 Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
P3a	1.1.	150 (netto)	500 (netto)

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

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

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

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

Directive 2010/75/EU (VOC):
REGULATION (EC) No 648/2004

5 % or over but less than 15 % aliphatic hydrocarbons
 less than 5 %
 anionic surfactants

perflumes
 LIMONENE

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:
 Employee training in handling dangerous goods is required.
 These details refer to the product as it is delivered.
 Employee instruction/training in handling hazardous materials is required.

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

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Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aerosol 1, H222	Classification based on test data.
Aerosol 1, H229	Classification based on test data.

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

H225 Highly flammable liquid and vapour.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Aerosol — Aerosols
 Flam. Liq. — Flammable liquid
 Eye Irrit. — Eye irritation
 Skin Corr. — Skin corrosion
 Aquatic Acute — Hazardous to the aquatic environment - acute
 Aquatic Chronic — Hazardous to the aquatic environment - chronic
 Eye Dam. — Serious eye damage

Any abbreviations and acronyms used in this document:

AC Article Categories
 acc. acc. to according, according to
 ACGH American Conference of Governmental Industrial Hygienists
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AOEL Acceptable Operator Exposure Level
 AOX Adsorbable organic halogen compounds
 approx. approximately
 Art. Art. no. Article number
 ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
 BCF Bioconcentration factor
 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
 BHT Butylhydroxytoluol (= 2,6-Di-*t*-butyl-4-methyl-phenol)
 BMGV Biological monitoring guidance value (EH40, UK)
 BOD Biochemical oxygen demand
 BSEF Bromine Science and Environmental Forum
 bw body weight
 CAS Chemical Abstracts Service
 CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids
 CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
 CIPAC Collaborative International Pesticides Analytical Council
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
 CMR carcinogenic, mutagenic, reproductive toxic
 COD Chemical oxygen demand
 CTFA Cosmetic, Toiletry, and Fragrance Association
 DMEL Derived Minimum Effect Level
 DNEL Derived No Effect Level
 DOC Dissolved organic carbon
 DT50 Dwell Time - 50% reduction of start concentration
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
 dw dry weight
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

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EC European Community
 ECHA European Chemicals Agency
 EEA European Economic Area
 EEC European Economic Community
 EINECS European Inventory of Existing Commercial Chemical Substances
 ELINCS European List of Notified Chemical Substances
 EN European Norms
 EPA United States Environmental Protection Agency (United States of America)
 ERC Environmental Release Categories
 ES Exposure scenario
 etc. et cetera
 EU European Union
 EWC European Waste Catalogue
 Fax, Fax number
 gen, general
 GHS Globally Harmonized System of Classification and Labelling of Chemicals
 GWP Global warming potential
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane
 HGWP Halocarbon Global Warming Potential
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association
 IBC Intermediate Bulk Container
 IBC (Code) International Bulk Chemical (Code)
 IC Inhibitory concentration
 IMDG-code International Maritime Code for Dangerous Goods
 ind. including, inclusive
 IUCLID International Uniform Chemical Information Database
 LC lethal concentration
 LC50 lethal concentration 50 percent kill
 LCLo lowest published lethal concentration
 LD Lethal Dose of a chemical
 LD50 Lethal Dose, 50% kill
 LDLo Lethal Dose Low
 LOAEL Lowest Observed Adverse Effect Level
 LOEC Lowest Observed Effect Concentration
 LOEL Lowest Observed Effect Level
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships
 n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 NIOSH National Institute of Occupational Safety and Health (United States of America)
 NOAEC No Observed Adverse Effect Concentration
 NOAEL No Observed Adverse Effect Level
 NOEC No Observed Effect Concentration
 NOEL No Observed Effect Level
 ODP Ozone Depletion Potential
 OECD Organisation for Economic Co-operation and Development
 org. organic
 PAH polycyclic aromatic hydrocarbon
 PBT persistent, bioaccumulative and toxic
 PC Chemical product category
 PE Polyethylene
 PNEC Predicted No Effect Concentration
 POCP Photochemical ozone creation potential
 ppm parts per million
 PROC Process category
 PTFE Polytetrafluorethylene
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
 REACH-T List-No. 9xx-xxx-x No. Is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-T.

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RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
 SADT Self-Accelerating Decomposition Temperature
 SAR Structure Activity Relationship
 SU Sector of use
 SVHC Substances of Very High Concern
 Tel. Telephone
 ThOD Theoretical oxygen demand
 TOC Total organic carbon
 TRGS Technische Regeln für Gefahrstoffe (= Technical Regulations for Hazardous Substances)
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
 VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
 VOC Volatile organic compounds
 vPvB very persistent and very bioaccumulative
 WEL-TWA, WEL-STEL, WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK), WHO World Health Organization
 wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
 These statements were made by
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