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

1.1 Product identifier

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

Rust remover

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

Tel.: (+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)

+1 872 5888271 (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 Hazard statement

Asp. Tox. 1 H304-May be fatal if swallowed and enters airways.

Aerosol 1 H222-Extremely flammable aerosol.

Aerosol 1 H229-Pressurised container: May burst if heated.

2.2 Label elements

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





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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.

EUH066-Repeated exposure may cause skin dryness or cracking.

Without adequate ventilation, formation of explosive mixtures may be possible. Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

•:= •	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119457273-39-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-481-9
CAS	(64742-48-9)
content %	50-70
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Asp. Tox. 1, H304

Carbon dioxide	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	204-696-9
CAS	124-38-9
content %	1-<20
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	

2-Butoxyethanol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475108-36-XXXX
Index	603-014-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-905-0
CAS	111-76-2
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	ATE (oral): 1200 mg/kg

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.



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If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here. Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

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

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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 respiratory tract

with long-term contact:

Product removes fat.

Irritation of the skin.

Frostbite

Reddening

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

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

Oxides of sulphur

Hydrocarbons

Toxic pyrolysis products.

Danger of explosion by prolonged heating.

Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.



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Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

Prevent from entering drainage system.

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.

Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous 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.

Do not use on hot surfaces.

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 feedingstuffs.

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.

Store in a well-ventilated place.

Observe special regulations for aerosols!

Not to be stored in gangways or stair wells.

Do not store with oxidizing agents.

Observe special storage conditions.

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

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m3



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WEL-TWA: 800 mg/m3		WEL-STEL:			
Monitoring procedures:		Draeger - Hydrocarbons 0,1%/c (8°			
	-	Draeger - Hydrocarbons 2/a (81 03	581)		
	-	Compur - KITA-187 S (551 174)			
BMGV:			Other information: (C	EL acc. to	RCP-method,
			paragraphs 84-87, EH	40)	
Chemical Name	Carbon dioxide				Content %:1-<20
WEL-TWA: 5000 ppm (9150 mg/r	n3) (WEL), 5000	WEL-STEL: 15000 ppm (2740	0 mg/m3) (WEL)		
ppm (9000 mg/m3) (EU)	, , , , , , , , , , , , , , , , , , , ,		<i>5</i> , <i>,</i> ,		
Monitoring procedures:	-	Draeger - Carbon Dioxide 0,1%/a (CH 23 501)	•	
•	-	Draeger - Carbon Dioxide 0,5%/a (CH 31 401)		
	-	Draeger - Carbon Dioxide 1%/a (Cl			
	-	Draeger - Carbon Dioxide 100/a (8	1 01 811)		
	-	Draeger - Carbon Dioxide 5%/A (C	H 20 301)		
	=	Compur - KITA-126 B (549 475)			
	=	Compur - KITA-126 SA (549 467)			
	=	Compur - KITA-126 SB (548 816)			
	=	Compur - KITA-126 SF (549 491)			
	=	Compur - KITA-126 SG (550 210)			
	-	Compur - KITA-126 SH (549 509)			
	=	Compur - KITA-126 UH (549 517)			
	-	NIOSH 6603 (Carbon dioxide) - 199			
	-	OSHA ID-172 (Carbon dioxide in w			
BMGV:			Other information:		
© Chemical Name	2-Butoxyethanol				Content %:1-<10
WEL-TWA: 25 ppm (123 mg/m3)	(WEL), 20 ppm (98	WEL-STEL: 50 ppm (246 mg/r	m3) (WEL, EU)		
mg/m3) (EU)					
Monitoring procedures:	-	Compur - KITA-190 U(C) (548 873)			
		DFG MethNr. 2 (D) (Loesungsmitt			nixtures 3) - 2014,
		2002 - EU project BC/CEN/ENTR/0		2004)	
		NIOSH 1403 (ALCOHOLS IV) - 200			
	-	NIOSH 2549 (VOLATILE ORGANIC		ENING)) -	1996
	-	OSHA 83 (2-Butoxyethanol (Butyl (
BMGV: 240 mmol butoxyacetic ac	cid/mol creatinine in	urine, post shift (BMGV)	Other information: SI	(WEL)	
Chemical Name	Oil mist, mineral				Content %:
WEL-TWA: 5 mg/m3 (Mineral oil,		WEL-STEL:			
working fluids, ACGIH)	ŭ				
Monitoring procedures:	-	Draeger - Oil Mist 1/a (67 33 031)		1	
BMGV:		,	Other information:		

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	8,8	mg/l	
	Environment - marine		PNEC	0,88	mg/l	
	Environment - sediment,		PNEC	34,6	mg/kg dw	
	freshwater					
	Environment - soil		PNEC	2,8	mg/kg dw	
	Environment - sewage		PNEC	463	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	3,46	mg/kg dw	
	marine					
	Environment - sporadic		PNEC	9,1	mg/l	
	(intermittent) release					
	Environment - soil		PNEC	2,33	mg/kg	
	Environment - oral (animal		PNEC	20	mg/kg	
	feed)					



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Consumer	Human - inhalation	Long term, local effects	DNEL	147	mg/m3
Consumer	Human - dermal	Short term, systemic effects	DNEL	44,5	mg/kg bw/d
Consumer	Human - inhalation	Short term, systemic effects	DNEL	426	mg/m3
Consumer	Human - oral	Short term, systemic effects	DNEL	13,4	mg/kg bw/d
Consumer	Human - inhalation	Short term, local effects	DNEL	123	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	38	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	49	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	3,2	mg/kg bw/d
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	663	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	246	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	75	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	98	mg/m3

- 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 (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | 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), 2017/2398/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 repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

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. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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 feedingstuffs.

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

Eye/face protection:

With danger of contact with eyes.

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN ISO 374).



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If applicable

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

0,3

Permeation time (penetration time) in minutes:

> 120

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:

If OES or MEL is exceeded.

Filter A P3 (EN 14387), code colour brown, white

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.

Colour: Colourless
Odour: Characteristic

Melting point/freezing point: There is no information available on this parameter.

Boiling point or initial boiling point and boiling range:

There is no information available on this parameter.

Flammability: Does not apply to aerosols.

Lower explosion limit:

Upper explosion limit:

There is no information available on this parameter.

There is no information available on this parameter.

Flash point:

Does not apply to aerosols.

Auto-ignition temperature:

Does not apply to aerosols.

There is no information available on this parameter.

Mixture is non-soluble (in water).

Does not apply to aerosols.

Insoluble

Does not apply to mixtures.

There is no information available on this parameter.

0,829-0,86 g/ml (20°C) Does not apply to aerosols. Does not apply to aerosols.

9.2 Other information

Density and/or relative density:

Relative vapour density:

Particle characteristics:

Partition coefficient n-octanol/water (log value):

Decomposition temperature:

Kinematic viscosity:

Vapour pressure:

pH:

Solubility:

Explosives: Product is not explosive.

Oxidising liquids:

SECTION 10: Stability and reactivity

10.1 Reactivity



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In use, may form flammable/explosive vapour-air mixture.

This product is not reactive based on experiences.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur during storage and handling under normal conditions.

10.4 Conditions to avoid

Pressure increase will result in danger of bursting.

Heating, open flame, ignition sources

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

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

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value,
						Aerosol
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Hydrocarbons, C10-C13, n-alka	anes, isoalkan	es, cyclics, <	2% aromatics			
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3/8h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Acute toxicity, by inhalation:	LC50	>5	mg/m3/4h	Rat	OECD 403 (Acute	Vapours,
					Inhalation Toxicity)	Analogous
						conclusion
Skin corrosion/irritation:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.,
						Product removes
						fat.
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion



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Serious eye damage/irritation:					OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
					Erythrocyte	Analogous
					Micronucleus Test)	conclusion
Carcinogenicity:					OECD 453 (Combined	Negative,
					Chronic	Analogous
					Toxicity/Carcinogenicity	conclusion
					Studies)	
Reproductive toxicity:					OECD 421	Negative,
•					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion
					Test)	
Reproductive toxicity:	NOAEC	>= 5220	mg/m3	Rat	OEĆD 414 (Prenatal	Negative,
•					Developmental Toxicity	Analogous
					Study)	conclusioninhalat
					, , , , , , , , , , , , , , , , , , ,	ion
Specific target organ toxicity -					OECD 408 (Repeated	No indications of
repeated exposure (STOT-RE):					Dose 90-Day Oral	such an effect.,
,					Toxicity Study in	Analogous
					Rodents)	conclusion
Aspiration hazard:					,	Yes
Symptoms:						unconsciousness
•						, headaches,
						dizziness,
						Dermatitis (skin
						inflammation),
						Reddening,
						drying of the
						skin., mucous
						membrane
						irritation, nausea
						and vomiting.,
						diarrhoea, lower
						abdominal pain

Endpoint	Value	Unit	Organism	Test method	Notes
					unconsciousness , blisters by skin- contact, vomiting, frostbite, annoyance, palpitations, itching, headaches, cramps, ear noises, dizziness
	Endpoint	Endpoint Value	Endpoint Value Unit	Endpoint Value Unit Organism	Endpoint Value Unit Organism Test method

2-Butoxyethanol							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	ATE	1200	mg/kg				
Acute toxicity, by dermal route:	LD50	2275	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)		
Acute toxicity, by inhalation: Skin corrosion/irritation:	LC50	10-20	mg/l/4h	Rat Rabbit	Regulation (EC)	Vapours Skin Irrit. 2,	
					440/2008 B.4 (DERMAL IRRITATION/CORROSI ON)	Product removes fat.	



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Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:				Rat	OECD 451 (Carcinogenicity Studies)	Negative
Carcinogenicity:	NOAEC	125	ppm	Mouse	OECD 451 (Carcinogenicity Studies)	Negative
Aspiration hazard:						No
Symptoms:						acidosis, ataxia, breathing difficulties, respiratory distress, drowsiness, unconsciousnes, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	<69	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	>150	mg/kg bw/d	Rabbit	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	

11.2. Information on other hazards

Rostloeser XXL						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:	-					Does not apply
						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

SECTION 12: Ecological information

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



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12.1. Toxicity to fish: 12.1. Toxicity to daphnia: 12.1. Toxicity to adaphnia: 12.2. Persistence and degradability: 12.3. Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and YPVB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects:	Test method	Notes
12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and degradability: 12.3. Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		n.d.a.
12.2. Persistence and degradability: 12.3. Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		n.d.a.
degradability: 12.3. Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		n.d.a.
12.3. Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		The surfactant(s)
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		contained in this
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		mixture
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		complies(comply)
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		with the
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		biodegradability
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		criteria as laid
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		down in
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		Regulation (EC)
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		No.648/2004 on
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		detergents. Data
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		to support this
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		assertion are
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		held at the
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		disposal of the
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		competent
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		authorities of the
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		Member States
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		and will be made
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		available to
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		them, at their
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		direct request or
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		at the request of
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		a detergent
potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		manufacturer.
12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		n.d.a.
12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		
and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse		n.d.a.
12.6. Endocrine disrupting properties: 12.7. Other adverse		n.d.a.
disrupting properties: 12.7. Other adverse		Door not apply
12.7. Other adverse		Does not apply to mixtures.
		No information
Circuis.		available on
		other adverse
		effects on the
		environment.
Other information: AOX		According to the
Other information. AOA		recipe, contains
		no AOX.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOELR	28d	0,10	mg/l	Oncorhynchus mykiss	QSÁR	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,18	mg/l	Daphnia magna	QSAR	
12.1. Toxicity to algae:	ErL50	72h	>1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	



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12.2. Persistence and degradability:		28d	80	%	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		5,5-7,2		
12.4. Mobility in soil:	Log Koc		>3		
12.5. Results of PBT and vPvB assessment					No PBT substance, No vPvB substance
12.7. Other adverse effects:					Product floats on the water surface.
Water solubility:			~10	mg/l	Slight

Carbon dioxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	35	mg/l	Salmo gairdneri		
Other information:	Log Kow		0,83				
12.7. Other adverse							Greenhouse
effects:							effect
Global warming			1				
potential (GWP):							

2-Butoxyethanol		_		_			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1474	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOEC/NOEL	21d	>100	mg/l	Brachydanio rerio	OECD 204 (Fish,	
						Prolonged Toxicity	
						Test - 14-Day	
						Study)	
12.1. Toxicity to daphnia:	EC50	48h	1550	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	100	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	1840	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
-					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	95	%		OECD 301 E	Readily
degradability:						(Ready	biodegradable
,						Biodegradability -	•
						Modified OECD	
						Screening Test)	
12.2. Persistence and		28d	>99	%		OECD 302 B	Readily
degradability:						(Inherent	biodegradable
-						Biodegradability -	-
						Zahn-	
						Wellens/EMPA	
						Test)	
12.3. Bioaccumulative	BCF		3,2			,	Slight
potential:							Ğ



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12.3. Bioaccumulative potential:	Log Pow		0,81			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Not to be expected
12.4. Mobility in soil:	H (Henry)		0,00000 16	atm*m3/m ol			
12.4. Mobility in soil:	Koc		67				Expert judgement
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No vPvB substance
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas putida	DIN 38412 T.8	

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

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:

Return to manufacturer with residual pressure.

Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

General statements

14.1. UN number or ID number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):
2.1
14.4. Packing group:
-

EmS: F-D, S-U
Marine Pollutant: n.a

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







(B)-

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14.4. Packing group:

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. Maritime transport in bulk according to IMO instruments

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 national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! 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	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P3b	11.1, 11.2	5000 (netto)	50000 (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 2010/75/EU (VOC):

~ 58 %

REGULATION (EC) No 648/2004

30 % and more aliphatic hydrocarbons

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1-16

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):

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.



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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).

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

EUH066 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard

Aerosol — Aerosols

Acute Tox. — Acute toxicity - oral Acute Tox. — Acute toxicity - inhalation

Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

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

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances

and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community
ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

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)



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ErCx, EuCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

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

incl. including, inclusive

IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACHRegistration, 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, 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-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

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. No responsibility.

These statements were made by:

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