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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

Rostloeser XXL

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 mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementAsp. Tox.1H304-May be fatal

Asp.	I OX.	
Aeros	ol	
Aeros	ol	

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1 1 H304-May be fatal if swallowed and enters airways. H222-Extremely flammable aerosol. 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. 3, H331
	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	ATE (oral): 1200 mg/kg
	ATE (as inhalation, Vapours): 3 mg/l

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!



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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.

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

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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.

Indestion

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



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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 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.

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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):



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800 mg/m3

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	Hydrocarbons, C	10-C13, n-alkanes, isoalkanes, cy	clics, <2% aron	natics		
WEL-TWA: 800 mg/m3		WEL-STEL:	(04.00.574)			
Monitoring procedures:	-	Draeger - Hydrocarbons 0,1%/c				
	-	Draeger - Hydrocarbons 2/a (81	03 581)			
		Compur - KITA-187 S (551 174)				00 (1 1
BMGV:					DEL acc. to R	CP-method
			paragraphs	84-87, EF	40)	
Chemical Name	Carbon dioxide					
VEL-TWA: 5000 ppm (9'		WEL-STEL: 15000 ppm (27	400 ma/m3) (W	EL)		
opm (9000 mg/m3) (EU)	·····	·· ·· ····· ···· ····		,		
Aonitoring procedures:	-	Draeger - Carbon Dioxide 0,1%/a	a (CH 23 501)			
	-	Draeger - Carbon Dioxide 0,5%/a				
	-	Draeger - Carbon Dioxide 1%/a				
	<u>-</u>	Draeger - Carbon Dioxide 100/a				
	<u>-</u>	Draeger - Carbon Dioxide 5%/A				
	-	Compur - KITA-126 B (549 475)	(01120001)			
	_	Comput - KITA-126 SA (549 467	.)			
	_	Comput - KITA-126 SB (548 816				
	_	Comput - KITA-126 SE (549 491				
	-	Comput - KITA-126 SG (550 210				
	-	Comput - KITA-126 SG (350 210 Comput - KITA-126 SH (549 509				
	-	Comput - KITA-126 SH (549 508 Comput - KITA-126 UH (549 517	/			
	-					
	-	NIOSH 6603 (Carbon dioxide) - OSHA ID-172 (Carbon dioxide in		oonhoroo)	1000	
BMGV:	-	OSHA ID-172 (Carbon dioxide in	Other inforr			
BMGV:			Other mon	nation	-	
Chemical Name	2-Butoxyethanol					
WEL-TWA: 25 ppm (123	mg/m3) (WEL), 20 ppm (98	WEL-STEL: 50 ppm (246 m	g/m3) (WEL, El	J)		
mg/m3) (EU)	3 <i>y</i> (<i>y y</i> ((<i>y y y y y y y y y y</i>		0 / (/	,		
Monitoring procedures:		Compur - KITA-190 U(C) (548 8	73)		-1	
01		DFG MethNr. 2 (D) (Loesungsr	nittelgemische 3	3), DFG (E)	(Solvent mix	tures 3) - 20
	-	2002 - EU project BC/CEN/ENTH				,
	-	NIOSH 1403 (ALCOHOLS IV) - 2		(/	
	-	NIOSH 2549 (VOLATILE ORGA		IDS (SCRE	ENING)) - 19	906
		OSHA 83 (2-Butoxyethanol (Buty				
	-					30
3MGV: 240 mmol butoxv	- acetic acid/mol creatinine in				k (WEL)	
,	acetic acid/mol creatinine in		Other inform		k (WEL)	
Chemical Name	Oil mist, mineral	urine, post shift (BMGV)				
Chemical Name NEL-TWA: 5 mg/m3 (Mir	Oil mist, mineral				k (WEL)	
Chemical Name WEL-TWA: 5 mg/m3 (Mir vorking fluids, ACGIH)	Oil mist, mineral neral oil, excluding metal	urine, post shift (BMGV) WEL-STEL:	Other inforr			
Chemical Name WEL-TWA: 5 mg/m3 (Mir vorking fluids, ACGIH) Monitoring procedures:	Oil mist, mineral	urine, post shift (BMGV)	Other inforr	nation: S		
Chemical Name WEL-TWA: 5 mg/m3 (Mir vorking fluids, ACGIH) Monitoring procedures:	Oil mist, mineral neral oil, excluding metal	urine, post shift (BMGV) WEL-STEL:	Other inforr	nation: S		
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures:	Oil mist, mineral neral oil, excluding metal	urine, post shift (BMGV) WEL-STEL:	Other inforr	nation: S		
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures:	Oil mist, mineral neral oil, excluding metal	urine, post shift (BMGV) WEL-STEL:	Other inforr	nation: S		
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV:	Oil mist, mineral neral oil, excluding metal -	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031	Other inforr	nation: S		
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV: Hydrocarbons, C10-C13,	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031	Other inforr	nation: S	-	
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV: Hydrocarbons, C10-C13,	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc Exposure route /	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031	Other inforr	nation: S		Note
Chemical Name VEL-TWA: 5 mg/m3 (Mir vorking fluids, ACGIH) Monitoring procedures: BMGV: Hydrocarbons, C10-C13,	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc Exposure route / Environmental	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031	Other inforr	nation: S	-	
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV: Hydrocarbons, C10-C13, Area of application	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc Exposure route / Environmental compartment	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031 lics, <2% aromatics Effect on health	Other inforr Other inforr Other inforr Descriptor	nation: S nation: Value	 - Unit	
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV: Hydrocarbons, C10-C13, Area of application	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc Exposure route / Environmental	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031 lics, <2% aromatics Effect on health Long term, systemic	Other inforr	nation: S	-	
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV: Hydrocarbons, C10-C13, Area of application	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc Exposure route / Environmental compartment Human - oral	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031 lics, <2% aromatics Effect on health Long term, systemic effects	Other inforr Other inforr Other inforr Descriptor DNEL	nation: S nation: Value 300	 - - Unit mg/kg	
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV: Hydrocarbons, C10-C13, Area of application	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc Exposure route / Environmental compartment	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031 lics, <2% aromatics Effect on health Long term, systemic effects Long term, systemic	Other inforr Other inforr Other inforr Descriptor	nation: S nation: Value	 - Unit	
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV: Hydrocarbons, C10-C13, Area of application Consumer Consumer	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc Exposure route / Environmental compartment Human - oral Human - dermal	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031 lics, <2% aromatics Effect on health Long term, systemic effects Long term, systemic effects effects	Other inforr Other inforr Other inforr Descriptor DNEL DNEL DNEL	nation: S nation: Value 300 300	Unit mg/kg mg/kg	
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Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV: Hydrocarbons, C10-C13, Area of application Consumer Consumer Consumer	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc Exposure route / Environmental compartment Human - oral Human - dermal Human - inhalation	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031 lics, <2% aromatics Effect on health Long term, systemic effects	Other inforr Other inforr Other inforr Descriptor DNEL DNEL DNEL DNEL	nation: S nation: Value 300 300 900	Unit mg/kg mg/kg mg/m3	
Chemical Name WEL-TWA: 5 mg/m3 (Mir working fluids, ACGIH) Monitoring procedures: BMGV:	Oil mist, mineral neral oil, excluding metal - - n-alkanes, isoalkanes, cyc Exposure route / Environmental compartment Human - oral Human - dermal	urine, post shift (BMGV) WEL-STEL: Draeger - Oil Mist 1/a (67 33 031 Ilics, <2% aromatics Effect on health Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic	Other inforr Other inforr Other inforr Descriptor DNEL DNEL DNEL	nation: S nation: Value 300 300	Unit mg/kg mg/kg	

2-Butoxyethanol



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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				U U	
	Environment - soil		PNEC	2,33	mg/kg	
	Environment - oral (animal		PNEC	20	mg/kg	
	feed)					
Consumer	Human - inhalation	Long term, local effects	DNEL	147	mg/m3	
Consumer	Human - dermal	Short term, systemic	DNEL	44,5	mg/kg bw/d	
		effects			0.0	
Consumer	Human - inhalation	Short term, systemic	DNEL	426	mg/m3	
		effects				
Consumer	Human - oral	Short term, systemic	DNEL	13,4	mg/kg bw/d	
		effects				
Consumer	Human - inhalation	Short term, local	DNEL	123	mg/m3	
		effects				
Consumer	Human - dermal	Long term, systemic	DNEL	38	mg/kg bw/d	
		effects				
Consumer	Human - inhalation	Long term, systemic	DNEL	49	mg/m3	
		effects				
Consumer	Human - oral	Long term, systemic	DNEL	3,2	mg/kg bw/d	
		effects				
Workers / employees	Human - dermal	Short term, systemic	DNEL	89	mg/kg bw/d	
		effects				
Workers / employees	Human - inhalation	Short term, systemic	DNEL	663	mg/m3	
		effects				
Workers / employees	Human - inhalation	Short term, local	DNEL	246	mg/m3	
		effects				
Workers / employees	Human - dermal	Long term, systemic	DNEL	75	mg/kg bw/d	
		effects				
Workers / employees	Human - inhalation	Long term, systemic	DNEL	98	mg/m3	
		effects				

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

(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.



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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.

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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). 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:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	Does not apply to aerosols.



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Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives: Oxidising liquids: 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.

Product is not explosive.

SECTION 10: Stability and reactivity

10.1 Reactivity

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).

Rostloeser XXL						
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 - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Hydrocarbons, C10-C13, n-alka	ines, isoalkan	es, cyclics, <	2% aromatics			
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes



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Carbon dioxide	1					abdominal pain
						diarrhoea, lower
						and vomiting.,
						irritation, nausea
						skin., mucous membrane
						drying of the
						Reddening,
						inflammation),
						Dermatitis (skin
						dizziness,
Symptoms:						unconsciousnes , headaches,
Aspiration hazard:						Yes
Assistant					Rodents)	conclusion
					Toxicity Study in	Analogous
repeated exposure (STOT-RE):					Dose 90-Day Oral	such an effect.,
Specific target organ toxicity -	1				OECD 408 (Repeated	No indications of
					Cludy	ion
					Study)	Analogous conclusioninhala
Reproductive toxicity:	NOAEC	>= 5220	mg/m3	Rat	OECD 414 (Prenatal Developmental Toxicity	Negative,
Democratic			- / 2	Det	Test)	No. 20
					ental Toxicity Screening	conclusion
· · ·					(Reproduction/Developm	Analogous
Reproductive toxicity:					OECD 421	Negative,
					Studies)	
					Toxicity/Carcinogenicity	conclusion
Caromogenicity.					Chronic	Analogous
Carcinogenicity:					OECD 453 (Combined	conclusion Negative,
					Erythrocyte Micronucleus Test)	Analogous
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
sensitisation:					Sensitisation)	
Respiratory or skin	1			Guinea pig	OECD 406 (Skin	No (skin contact)
concus eye damage/imaion.					Irritation/Corrosion)	
Serious eye damage/irritation:					OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	conclusion
Skin corrosion/irritation:					OECD 404 (Acute Dermal	Not irritant, Analogous
						fat.
						Product removes
						cracking.,
						dryness or
						cause skin
Skin conosion/initiation.						exposure may
Skin corrosion/irritation:						conclusion Repeated
					Inhalation Toxicity)	Analogous
Acute toxicity, by inhalation:	LC50	>5	mg/m3/4h	Rat	OECD 403 (Acute	Vapours,
					Inhalation Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3/8h	Rat	OECD 403 (Acute	Vapours
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	Dermal Toxicity)	
A suite to delta har denne el reciter	1.050	>2000		Det	Toxicity) OECD 402 (Acute	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	



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Symptoms:		unconsciousness
		, blisters by skin-
		contact,
		vomiting,
		frostbite,
		annoyance,
		palpitations,
		itching,
		headaches,
		cramps, ear
		noises, dizziness

Endpoint	Value	Unit	Organism	Test method	Notes
ATE	1200	mg/kg			
LD50	2275	mg/kg	Rabbit	OECD 402 (Acute	
				Dermal Toxicity)	
ATE	3	mg/l			Vapours
			Rabbit		Skin Irrit. 2,
					Product removes
					fat.
			Rabbit		Eye Irrit. 2
			Guinea pig		No (skin contact)
			Mouse		Negative
					Negative
			typhimurium		N I <i>d</i>
					Negative
					Newsters
					Negative
			Det		Negativa
			Rat		Negative
NOAEC	125		Mouro		Negative
NOAEC	125	ppm	Mouse		Negative
				(Carcinogenicity Studies)	No
	~69	ma/ka	Rat	OFCD 408 (Repeated	NU
NUALL	~03		ivat		
		Dw/u			
NOAFI	>150	ma/ka	Rabbit		
NOALL	2100				
		DW/G			
	ATE	ATE 1200 LD50 2275 ATE 3 ATE 3 NOAEC 125 NOAEL <69	ATE1200mg/kgLD502275mg/kgATE3mg/lATE3mg/lIII<	ATE1200mg/kgPLD502275mg/kgRabbitATE3mg/lRabbitImage: Second stress of the second stress o	ATE1200mg/kgRabbitOECD 402 (Acute Dermal Toxicity)ATE3mg/lRabbitRegulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSI ON)ATE3mg/lRabbitRegulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSI ON)ATE3mg/lRabbitRegulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSI ON)ATE3mg/lRabbitRegulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSI ON)ATEAmage and the second sec

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.



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SECTION 12: Ecological information

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

Rostloeser XXL							
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.
12.2. Persistence and							The surfactant(s)
degradability:							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							n.d.a.
potential:							n.u.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:	AOX						According to the
							recipe, contains
							no AOX.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics								
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	QSAR		
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		



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12.1. Toxicity to algae:	ErL50	72h	>1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	80	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative potential:	Log Pow		5,5-7,2				
12.4. Mobility in soil:	Log Koc		>3				
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.7. Other adverse							Product floats on
effects:							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):							

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	EC50	48h	1550	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	95	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	Readily biodegradable
12.2. Persistence and degradability:		28d	>99	%		OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		3,2				Slight
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			
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas putida	DIN 38412 T.8	



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

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	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: Tran	sport 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 14.3. Transport hazard class(es):	2.1		
	14.4. Packing group:	-		
	Classification code:	5F		
	LQ:	1 L		
	14.5. Environmental hazards:	Not applicable		
	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:	-		
	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		
	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			
	Freighted as packaged goods rather than in bulk, therefore not applicable	e.		
	Minimum amount regulations have not been taken into account. Danger code and packing code on request.			
	Comply with special provisions.			
Г				
	SECTION 15: Regu	Ilatory information		



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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)! Regulation (EC) No 1907/2006, Annex XVII

2-Butoxyethanol

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.

~ 58 %

Directive 2010/75/EU (VOC): 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:

3, 11, 12, 15

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 (EC) No. 1272/2008 (CLP)	Evaluation method used
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.

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.

H331 Toxic if inhaled.

 $\ensuremath{\mathsf{EUH066}}$ Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard Aerosol — Aerosols Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - oral



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

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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 Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR 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 Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BSEF The International Bromine Council body weight bw 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 Dissolved organic carbon DOC dry weight dw for example (abbreviation of Latin 'exempli gratia'), for instance e.q. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC 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 European List of Notified Chemical Substances ELINCS FN European Norms EPA United States Environmental Protection Agency (United States of America) $ErCx, E\mu Cx, ErLx (x = 10, 50)$ 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 general aen. GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc Kow octanol-water partition coefficient International Agency for Research on Cancer IARC IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)



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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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