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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**

(GB)

## Universalreiniger

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

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

Hazard class
Skin Irrit.
Eye Dam.

Hazard category

Hazard statement H315-Causes skin irritation. H318-Causes serious eye damage.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)





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#### Danger

H315-Causes skin irritation. H318-Causes serious eye damage.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P280-Wear protective gloves / eye protection / face protection. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

2-Propylheptanol, ethoxylated Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### 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

#### <sup>n.a.</sup> 3.2 Mixtures

Trisodium nitrilotriacetate	
Registration number (REACH)	01-2119519239-36-XXXX
Index	607-620-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	225-768-6
CAS	5064-31-3
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Eye Irrit. 2, H319
	Carc. 2, H351
Specific Concentration Limits and ATE	Carc. 2, H351: >=5 %
2-Propylheptanol, ethoxylated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	160875-66-1
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Eye Dam. 1, H318
Sodium p-cumenesulphonate	
Registration number (REACH)	01-2119489411-37-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	239-854-6
CAS	15763-76-5
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Irrit. 2, H319
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	
Registration number (REACH)	01-2119488639-16-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	500-234-8
CAS	68891-38-3



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content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Aquatic Chronic 3, H412
Specific Concentration Limits and ATE	Eye Dam. 1, H318: >=10 %
	Eye Irrit. 2, H319: >=5 %

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

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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 - call doctor immediately, have Data Sheet available.

Protect uninjured eye. Consult medical specialist.

#### Ingestion

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.

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

There should be an eyewash station and safety shower located near the area of use.

### **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

Product is not combustible. Adapt to the nature and extent of fire.

## Unsuitable extinguishing media

None

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Oxides of sulphur Toxic gases

## 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 Alkali-resistant protection clothing.

Dispose of contaminated extinction water according to official regulations.

**SECTION 6: Accidental release measures** 



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## 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.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

## 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

## If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Neutralising is possible (only from a specialist).

Diluting with water is possible. Flush residue using copious water.

### 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. Avoid contact with eyes or skin. 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. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Alkali-resistant floor necessary. Do not store with oxidizing agents. Do not store with acids. Store at room temperature. **7.3 Specific and use(s)** 

7.3 Specific end use(s) No information available at present.

**SECTION 8: Exposure controls/personal protection** 

8.1 Control parameters



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Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,93	mg/l	
	Environment - marine		PNEC	0,093	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,915	mg/l	
	Environment - sewage treatment plant		PNEC	540	mg/l	
	Environment - sediment, freshwater		PNEC	3,64	mg/kg	
	Environment - sediment, marine		PNEC	0,364	mg/kg	
	Environment - soil		PNEC	0,182	mg/kg	
	Environment - oral (animal feed)		PNEC	0,2	mg/kg	
Consumer	Human - inhalation	Short term, local effects	DNEL	1,75	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	1,75	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,5	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	5,25	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	5,25	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	3,5	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,5	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,23	mg/l	
	Environment - sporadic (intermittent) release		PNEC	2,3	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - marine		PNEC	0,023	mg/l	
	Environment - sediment, freshwater		PNEC	0,862	mg/kg dw	
	Environment - sediment, marine		PNEC	0,086	mg/kg dw	
	Environment - soil		PNEC	0,037	mg/kg dw	
Consumer	Human - dermal	Long term, local effects	DNEL	0,048	mg/cm2	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,8	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	3,8	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	6,6	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,8	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	7,6	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	26,9	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,096	mg/cm2	



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Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,24	mg/l	
	Environment - periodic		PNEC	0,13	mg/l	
	release Environment - marine		PNEC	0.024		
				- / -	mg/l	
	Environment - sediment, freshwater		PNEC	5,45	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,545	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	10000	mg/l	
	Environment - soil		PNEC	0,946	mg/kg dry weight	
	Environment - sporadic (intermittent) release		PNEC	0,071	mg/l	
	Environment - sediment, freshwater	Short term	PNEC	0,917	mg/kg	
	Environment - sediment, marine	Short term	PNEC	0,092	mg/kg	
	Environment - soil	Short term	PNEC	7,5	mg/kg	
Consumer	Human - dermal	Long term, local effects	DNEL	0.079	mg/cm2	
Consumer	Human - oral	Long term, systemic effects	DNEL	15	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1650	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	52	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2750	mg/kg bw/day	
Workers / employees			DNEL	175	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0.132	mg/cm2	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,32	mg/l	
	Environment - marine		PNEC	0,032	mg/l	
	Environment - water,		PNEC	5,12	mg/l	
	sporadic (intermittent)					
	release					
	Environment - sewage		PNEC	10	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	1,7	mg/kg	
	freshwater					
	Environment - sediment,		PNEC	0,17	mg/kg	
	marine					
	Environment - soil		PNEC	0,151	mg/kg dry	
					weight	
Consumer	Human - dermal	Long term, systemic	DNEL	2,66	mg/kg	
		effects			bw/day	
Consumer	Human - oral	Long term, systemic	DNEL	3	mg/kg	
		effects			bw/day	
Consumer	Human - inhalation	Long term, systemic	DNEL	1,25	mg/m3	
		effects				
Consumer	Human - inhalation	Long term, local effects	DNEL	0,4	mg/m3	
Workers / employees	Human - dermal	Long term, systemic	DNEL	6,3	mg/kg	
		effects			bw/day	



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Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	

## 8.2 Exposure controls

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## 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.

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

Skin protection - Hand protection: Use alkali resistant protective gloves (EN ISO 374). Recommended Protective gloves in butyl rubber (EN ISO 374). Minimum layer thickness in mm: > 0,5 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: Alkali-resistant protection clothing (EN 13034)

Respiratory protection: Normally not necessary. In aerosol misting: Filter P1 (EN 143), code colour 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: Colour: Odour: Melting point/freezing point: Liquid Green Characteristic There is no information available on this parameter.



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Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: 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:

#### >100 °C

There is no information available on this parameter. 12,4 There is no information available on this parameter. Mixable Does not apply to mixtures. There is no information available on this parameter. 1,05 g/cm3 (20°C) There is no information available on this parameter.

There is no information available on this parameter. No

## **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. None known

### **10.5 Incompatible materials**

See also section 7. Avoid contact with strong oxidizing agents. Avoid contact with strong acids. Avoid contact with alkali sensitive materials.

#### **10.6 Hazardous decomposition products**

See also section 5.2

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:						n.d.a.
Skin corrosion/irritation:					OECD 431 (In Vitro Skin	Non-caustic,
					Corrosion - Human Skin	Analogous
					Model Test)	conclusion
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):						



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Specific target organ toxicity -			n.d.a.
repeated exposure (STOT-RE):			
Aspiration hazard:			n.d.a.
Symptoms:			n.d.a.

#### Trisodium nitrilotriacetate

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1740	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>10000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h			References, Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact
Germ cell mutagenicity:						No indications o such an effect.
Carcinogenicity:				Mouse		Carc. 218 months
Reproductive toxicity:						No indications o such an effect.
Symptoms:						eyes, reddened, rash, gastrointestinal disturbances, mucous membrane irritation, nausea and vomiting.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	300-2000	mg/kg	Rat	OECD 423 (Acute Oral	Analogous
					Toxicity - Acute Toxic	conclusion
					Class Method)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Mild irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Dam. 1
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Aspiration hazard:						No
Symptoms:						mucous
						membrane
						irritation

Foxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>7000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant



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Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
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
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEL	>936	mg/kg	Rat		
Reproductive toxicity (Effects on fertility):	NOAEL	300-1000	mg/kg bw/d	Rat	OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	
Aspiration hazard:						n.a.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	763-3534	mg/kg		OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	763	mg/kg	Rat		Target organ(s): heart, References
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	LOAEL	1300	mg/kg bw/d	Mouse	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	>440	mg/kg		OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4100	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:		>=10	%	Rabbit	OECD 405 (Acute Eye	Eye Dam. 1
					Irritation/Corrosion)	
Serious eye damage/irritation:		>=5	%	Rabbit	OECD 405 (Acute Eye	Eye Irrit. 2
					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 475 (Mammalian	Negative
					Bone Marrow	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Reproductive toxicity:	NOAEL	>1000	mg/kg	Rat	OECD 414 (Prenatal	Negative,
					Developmental Toxicity	References
					Study)	
Reproductive toxicity:	NOAEL	>300	mg/kg	Rat	OECD 416 (Two-	Negative,
					generation	References
					Reproduction Toxicity	
					Study)	



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Aspiration hazard:						No
Symptoms:						mucous membrane irritation
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	>225	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Target organ(s): liver, References

## 11.2. Information on other hazards

Universalreiniger						
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).

Universalreiniger							
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:							
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.



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12.7. Other adverse effects:	No information available on
	other adverse
	effects on the
	environment.
Other information:	According to the
	recipe, contains
	no AOX.
Other information:	DOC-elimination
	degree(complexi
	ng organic
	substance)>=
	80%/28d: No

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		-2,62				Bioaccumulation is unlikely (LogPow < 1).
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Pimephales promelas		References
12.1. Toxicity to daphnia:	EC50	96h	98	mg/l	Gammarus sp.		References
12.2. Persistence and degradability:		28d	90-100	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.2. Persistence and degradability:	COD	28d	> 90	%	activated sludge	OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		<3		Brachydanio rerio	,	
12.1. Toxicity to algae:	EC50	72h	>91,5	mg/l	Scenedesmus subspicatus		
Other information:	COD		625	mg/g			
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Water solubility:			660	g/l			Soluble 20°C
Toxicity to bacteria:	EC50	8h	3200- 5600	mg/l	Pseudomonas fluorescens	DIN 38412 T.8	

2-Propylheptanol, ethoxy		Time	Malua	Unit	Organiam	Test methed	Notoo
Toxicity / effect	Endpoint	Time	Value		Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10-100	mg/l	Oncorhynchus		Analogous
					tshawytscha		conclusion
12.1. Toxicity to daphnia:	EC50	48h	>10-100	mg/l	Daphnia magna		Analogous
				Ŭ			conclusion
12.1. Toxicity to algae:	EC50	72h	10-100	mg/l	Scenedesmus		Analogous
, ,				Ŭ	subspicatus		conclusion
12.2. Persistence and	BOD	28d	>60	%	· ·	OECD 301 D	Readily
degradability:						(Ready	biodegradable
5 ,						Biodegradability -	0
						Closed Bottle Test)	
Toxicity to bacteria:	EC20	30min	>100	mg/l		OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	



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Universalreiniger							
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substanc
Water solubility:							partially, Solub
0							
Sodium p-cumenesulphe Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT	Lindpoint	TIME	value	Unit	Organishi	rest method	No PBT
and vPvB assessment							substance, No
							vPvB substance
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Cyprinus caprio	OECD 203 (Fish,	
						Acute Toxicity	
12.1. Toxicity to daphnia:	EC50	48h	. 100		Daphnia magna	Test) OECD 202	
	ECOU	480	>100	mg/l	Daphnia magna	(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
12.1. Toxicity to algae:	NOEC/NOEL	96h	31	mg/l	Pseudokirchneriell	Test)	EPA OTS
12.1. Toxicity to algae.	NOLO/NOLL	0011	01	ing/i	a subcapitata		797.1050
12.2. Persistence and		28d	>60	%	activated sludge	OECD 301 B	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
12.3. Bioaccumulative	Log Pow		-1,1			Test) OECD 107	Bioaccumulatio
potential:	Logiow		1,1			(Partition	is unlikely
potoriuali						Coefficient (n-	(LogPow < 1).
						octanol/water) -	23 °C
						Shake Flask	
40 4 M L 111 1						Method)	
12.4. Mobility in soil:							Not to be expected
Toxicity to bacteria:	EC10	3h	>1000	mg/l	activated sludge	OECD 209	
,						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium Oxidation))	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	7,1	mg/l	Brachydanio rerio	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOEC/NOEL	28d	0,1	mg/l	Oncorhynchus	OECD 204 (Fish,	
					mykiss	Prolonged Toxicity	
						Test - 14-Day	
						Study)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,27	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	7,2	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	0,95	mg/l		OECD 201 (Alga,	
						Growth Inhibition	
						Test)	



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12.1. Toxicity to algae:	EC50	72h	27,7	mg/l	Desmodesmus subspicatus	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	>70	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	Readily biodegradable
12.2. Persistence and degradability:	DOC	28d	100	%	activated sludge	Regulation (EC) 440/2008 C.4-C (DETERMINATIO N OF 'READY' BIODEGRADABILI TY - CO2 EVOLUTION TEST)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		-1,38				Low
12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment	Кос		191				calculated value No PBT substance
Toxicity to bacteria:	EC50	16h	>10	g/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)

07 06 01 aqueous washing liquids and mother liquors

20 01 29 detergents containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

**For contaminated packing material** Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## **SECTION 14: Transport information**

General statements 14.1. UN number or ID number: Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name:	n.a.	
14.3. Transport hazard class(es):	n.a.	
14.4. Packing group:	n.a.	
Classification code:	n.a.	
LQ:	n.a.	



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## 14.5. Environmental hazards: Tunnel restriction code:

Transport	by sea (	(IMDG-code)
14.2 LIN prop	or chipping r	anno:

14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
I had a second	مستسمين مقلم قمالمين مط

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

#### **SECTION 15: Regulatory information**

Not applicable

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

0%

Observe restrictions: Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): **REGULATION (EC) No 648/2004** less than 5 % NTA (nitrilotriacetic acid) and salts thereof non-ionic surfactants anionic surfactants

2-BROMO-2-NITROPROPANE-1,3-DIOL

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

Revised sections:

8, 9

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
Skin Irrit. 2, H315	Classification based on test data.
Eye Dam. 1, H318	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). H302 Harmful if swallowed.

H315 Causes skin irritation.



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H318 Causes serious eye damage.H319 Causes serious eye irritation.H351 Suspected of causing cancer.H412 Harmful to aquatic life with long lasting effects.

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Skin Irrit. — Skin irritation Eye Dam. — Serious eye damage Acute Tox. — Acute toxicity - oral Eye Irrit. — Eye irritation Carc. — Carcinogenicity Aquatic Chronic — Hazardous to the aquatic environment - chronic

## 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 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 DOC Dissolved organic carbon dw drv 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 European Economic Community EEC European Inventory of Existing Commercial Chemical Substances EINECS ELINCS European List of Notified Chemical Substances ΕN European Norms United States Environmental Protection Agency (United States of America) EPA  $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) et cetera etc. ΕU European Union

EVAL Ethylene-vinyl alcohol copolymer



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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
IARC International Agency of Research of Cancer IARA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
5
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 applicable
n.av. not available
n.c. not checked
n.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 weight
The statements made here should describe the product with regard to the necessary safety precautions - they are

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