

Page 1 of 20
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 23.05.2023 / 0017
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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

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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:

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

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

Hazard class	Hazard category	Hazard statement
Skin Irrit.	2	H315-Causes skin irritation.
Eye Dam.	1	H318-Causes serious eye damage.

2.2 Label elements

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

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

Revision date / version: 23.05.2023 / 0017

Replacing version dated / version: 01.11.2021 / 0016

Valid from: 23.05.2023

PDF print date: 23.05.2023

Universalreiniger extrem

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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.

Sodium hydroxide

2-Propylheptanol, ethoxylated

Disodium metasilicate, pentahydrate

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

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
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 %
Sodium p-cumenesulphonate	
Registration number (REACH)	01-2119489411-37-XXXX

Page 3 of 20
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 23.05.2023 / 0017
Replacing version dated / version: 01.11.2021 / 0016
Valid from: 23.05.2023
PDF print date: 23.05.2023
Universalreiniger extrem
Universalcleaner Extreme

Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	239-854-6
CAS	15763-76-5
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Irrit. 2, H319

Disodium metasilicate, pentahydrate	
Registration number (REACH)	01-2119449811-37-XXXX
Index	014-010-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	229-912-9
CAS	10213-79-3
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335

Sodium hydroxide	
Registration number (REACH)	01-2119457892-27-XXXX
Index	011-002-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	215-185-5
CAS	1310-73-2
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
Specific Concentration Limits and ATE	Skin Corr. 1A, H314: >=5 % Skin Corr. 1B, H314: >=2 % Skin Irrit. 2, H315: >=0,5 % Eye Irrit. 2, H319: >=0,5 %

(2E)-2-benzylideneoctanal	
Registration number (REACH)	01-2119533092-50-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	639-566-4
CAS	165184-98-5
content %	0,01-<0,1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411

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

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.

Follow-up examination by an ophthalmologist.

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

Revision date / version: 23.05.2023 / 0017

Replacing version dated / version: 01.11.2021 / 0016

Valid from: 23.05.2023

PDF print date: 23.05.2023

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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.

eyes, reddened

watering eyes

irritation of the eyes

reddening of the skin

Dermatitis (skin inflammation)

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

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

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.

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).

Page 5 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

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.
 Do not store with acids.
 Do not use alkali sensitive materials.
 Store at room temperature.
 Store in a dry place.

7.3 Specific end use(s)

No information available at present.
 Observe the instructions for good working practice and the recommendations for risk assessment.
 Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CE	Chemical Name	Sodium hydroxide	
WEL-TWA: ---		WEL-STEL: 2 mg/m3	---
Monitoring procedures:		ISO 15202 (Workplace air - Determination of metals and metalloids in airborne particulate matter by Inductively Coupled Plasma Atomic Emission Spectrometry), Part 1-3 - 2012(Part 1), 2012(Part 2), 2004 (Part 3) - NIOSH 7401 (Alkaline dusts) - 1994 OSHA ID-121 (Metal and metalloid particulates in workplace atmospheres (Atomic absorption)) - 2002 - EU project BC/CEN/ENTR/000/2002-16 card 45-5 (2004)	
BMGV: ---		Other information: ---	

Trisodium nitrilotriacetate						
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	

Page 6 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

	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	

Sodium p-cumenesulphonate						
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	

Disodium metasilicate, pentahydrate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - groundwater		PNEC	7,5	mg/l	
	Environment - marine		PNEC	1	mg/l	

Page 7 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

	Environment - water, sporadic (intermittent) release		PNEC	7,5	mg/l	
	Environment - sewage treatment plant		PNEC	1000	mg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,55	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,74	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6,22	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1,49	mg/kg bw/day	

Sodium hydroxide						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	

(2E)-2-benzylideneoctanal						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	3	mg/l	
	Environment - marine		PNEC	0,003	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	4,7	mg/kg	
	Environment - sediment, marine		PNEC	4,77	mg/kg	
	Environment - freshwater		PNEC	0,00126	mg/l	
	Environment - marine		PNEC	0,000126	mg/l	
	Environment - sediment, freshwater		PNEC	3,2	mg/kg dw	
	Environment - sediment, marine		PNEC	0,064	mg/kg dw	
	Environment - soil		PNEC	0,398	mg/kg dw	
	Environment - oral (animal feed)		PNEC	6,6	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,019	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	4,7	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	9	mg/kg body weight/day	
Consumer	Human - dermal	Long term, local effects	DNEL	0,079	mg/cm2	
Consumer	Human - dermal	Short term, local effects	DNEL	0,079	mg/cm2	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,056	mg/kg body weight/day	
Workers / employees	Human - dermal	Short term, local effects	DNEL	0,525	mg/cm2	

Page 8 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

Workers / employees	Human - inhalation	Short term, local effects	DNEL	6,28	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	18,2	mg/kg body weight/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,078	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,525	mg/cm2	

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:
 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:
 0,7
 Permeation time (penetration time) in minutes:
 >480
 Protective hand cream recommended.
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
 The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:
 Alkali-resistant protection clothing (EN 13034)

Respiratory protection:
 Normally not necessary.

Thermal hazards:

Page 9 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

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:	Liquid
Colour:	Green
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:	There is no information available on this parameter.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	There is no information available on this parameter.
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	13,3
Kinematic viscosity:	There is no information available on this parameter.
Solubility:	Mixable
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	1,05 g/cm ³
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.

9.2 Other information

No information available at present.

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.

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

Revision date / version: 23.05.2023 / 0017

Replacing version dated / version: 01.11.2021 / 0016

Valid from: 23.05.2023

PDF print date: 23.05.2023

Universalreiniger extrem

Universalcleaner Extreme

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 Corrosion - Human Skin Model Test)	Non-caustic
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

2-Propylheptanol, ethoxylated

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

Trisodium nitrilotriacetate

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 of such an effect.
Carcinogenicity:				Mouse		Carc. 218 months

Page 11 of 20
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 23.05.2023 / 0017
Replacing version dated / version: 01.11.2021 / 0016
Valid from: 23.05.2023
PDF print date: 23.05.2023
Universalreiniger extrem
Universalcleaner Extreme

Reproductive toxicity:						No indications of such an effect.
Symptoms:						eyes, reddened, rash, gastrointestinal disturbances, mucous membrane irritation, nausea and vomiting.

Sodium p-cumenesulphonate						
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	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
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/Developmental 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)	

Disodium metasilicate, pentahydrate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rat	U.S. EPA Guideline OPPTS 870.1200	
Acute toxicity, by inhalation:	LC50	>2,06	g/m3	Rat		
Acute toxicity, by inhalation:	LD50	>2,06	mg/l/4h			Vapours

Page 12 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive
Serious eye damage/irritation:				Rabbit	IUCLID Chem. Data Sheet (ESIS)	Corrosive
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitising
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:						No indications of such an effect.
Reproductive toxicity (Developmental toxicity):	NOAEL	>200	mg/kg bw/d	Mouse		Negative
Reproductive toxicity (Effects on fertility):	NOAEL	>159	mg/kg bw/d	Rat		Negative
Symptoms:						mucous membrane irritation
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	260-284	mg/kg bw/d	Mouse		Negative
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	227-237	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Negative

Sodium hydroxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rabbit	Regulation (EC) 440/2008 B.3 (ACUTE TOXICITY (DERMAL))	
Skin corrosion/irritation:				Rabbit		Skin Corr. 1A
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Human being	(Patch-Test)	Not sensitising
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						breathing difficulties, coughing, abdominal pain, shock, cramps

(2E)-2-benzylideneoctanal						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3100	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>3000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>2100	mg/m3/8h	Rat		
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	~150	mg/kg bw/d	Rat		

Page 13 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	125	mg/kg bw/d	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	
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11.2. Information on other hazards

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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 extrem Universalcleaner Extreme							
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 degradability:							The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.

Page 14 of 20
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 23.05.2023 / 0017
Replacing version dated / version: 01.11.2021 / 0016
Valid from: 23.05.2023
PDF print date: 23.05.2023
Universalreiniger extrem
Universalcleaner Extreme

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

2-Propylheptanol, ethoxylated

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC20	30min	>100	mg/l		OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Water solubility:							partially, Soluble

Trisodium nitrilotriacetate

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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
12.1. Toxicity to algae:	EC50	72h	>91,5	mg/l	Scenedesmus subspicatus		
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		
12.3. Bioaccumulative potential:	Log Pow		-2,62				Bioaccumulation is unlikely (LogPow < 1).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	8h	3200-5600	mg/l	Pseudomonas fluorescens	DIN 38412 T.8	
Other information:	COD		625	mg/g			
Water solubility:			660	g/l			Soluble 20°C

Sodium p-cumenesulphonate

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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Page 15 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Cyprinus caprio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	31	mg/l	Pseudokirchneriella subcapitata		EPA OTS 797.1050
12.2. Persistence and degradability:		28d	>60	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		-1,1			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	Bioaccumulation is unlikely (LogPow < 1). 23 °C
12.4. Mobility in soil:							Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Disodium metasilicate, pentahydrate

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	210	mg/l	Brachydanio rerio	ISO 7346	
12.1. Toxicity to daphnia:	EC50	48h	1700	mg/l	Daphnia magna	84/449/EEC C.2	
12.1. Toxicity to algae:	EC50	72h	207	mg/l	Scenedesmus subspicatus	DIN 38412 T.9	
12.3. Bioaccumulative potential:							Not relevant for inorganic substances.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Sodium hydroxide

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	45,4	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LC50	96h	125	mg/l	Gambusia affinis		
12.1. Toxicity to daphnia:	EC50	48h	40,4	mg/l	Ceriodaphnia spec.		
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative potential:	Log Kow		-3,88				Negative

Page 16 of 20
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 23.05.2023 / 0017
Replacing version dated / version: 01.11.2021 / 0016
Valid from: 23.05.2023
PDF print date: 23.05.2023
Universalreiniger extrem
Universalcleaner Extreme

12.5. Results of PBT and vPvB assessment							Not relevant for inorganic substances.
Toxicity to bacteria:	EC50	15min	22	mg/l	Photobacterium phosphoreum		

(2E)-2-benzylideneoctanal							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1,7	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	96h	0,93	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,247	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	21d	>157	µg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	63	µg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	>0,065	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,065	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	97	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		5,3				High
12.3. Bioaccumulative potential:	BCF		6000				High

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.

Page 17 of 20
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 23.05.2023 / 0017
Replacing version dated / version: 01.11.2021 / 0016
Valid from: 23.05.2023
PDF print date: 23.05.2023
Universalreiniger extrem
Universalcleaner Extreme

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	Not applicable
Classification code:	Not applicable
LQ:	Not applicable
Transport category:	Not applicable

Transport by sea (IMDG-code)

14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Marine Pollutant:	Not applicable
EmS:	Not applicable

Transport by air (IATA)

14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable

14.6. Special precautions for user

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

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

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

Directive 2010/75/EU (VOC):	0,056 %
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REGULATION (EC) No 648/2004

less than 5 %

non-ionic surfactants

NTA (nitrilotriacetic acid) and salts thereof

anionic surfactants

perfumes

CITRONELLOL

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

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

Page 18 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 3, 4, 7, 8, 11, 12, 15
 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 according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.

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).

H314 Causes severe skin burns and eye damage.
 H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation
 Eye Dam. — Serious eye damage
 Acute Tox. — Acute toxicity - oral
 Eye Irrit. — Eye irritation
 Carc. — Carcinogenicity
 Met. Corr. — Substance or mixture corrosive to metals
 Skin Corr. — Skin corrosion
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
 Skin Sens. — Skin sensitization
 Aquatic Acute — Hazardous to the aquatic environment - acute
 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

Page 19 of 20
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 23.05.2023 / 0017
 Replacing version dated / version: 01.11.2021 / 0016
 Valid from: 23.05.2023
 PDF print date: 23.05.2023
 Universalreiniger extrem
 Universalcleaner Extreme

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, ELx (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)
 ErCx, E_uCx, 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 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)

Page 20 of 20
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 23.05.2023 / 0017
Replacing version dated / version: 01.11.2021 / 0016
Valid from: 23.05.2023
PDF print date: 23.05.2023
Universalreiniger extrem
Universalcleaner Extreme

PBT persistent, bioaccumulative and toxic
PE Polyethylene
PNEC Predicted No Effect Concentration
ppm parts per million
PVC Polyvinylchloride

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

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, 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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